



STATUTORY INSTRUMENTS.

**S.I. No. 393 of 2009**

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TAXES CONSOLIDATION ACT 1997 (ACCELERATED CAPITAL  
ALLOWANCES FOR ENERGY EFFICIENT EQUIPMENT)  
(AMENDMENT) (NO. 2) ORDER 2009

**(Prn. A9/1351)**

TAXES CONSOLIDATION ACT 1997 (ACCELERATED CAPITAL  
ALLOWANCES FOR ENERGY EFFICIENT EQUIPMENT)  
(AMENDMENT) (NO. 2) ORDER 2009

I, EAMON RYAN, Minister for Communications, Energy and Natural Resources, in exercise of the powers conferred on me by section 285A (inserted by section 46 of the Finance Act 2008 (No. 3 of 2008)) of the Taxes Consolidation Act 1997 (No. 39 of 1997), with the approval of, and after consultation with, the Minister for Finance, hereby order as follows:

1. (1) This Order may be cited as the Taxes Consolidation Act 1997 (Accelerated Capital Allowances for Energy Efficient Equipment) (Amendment) (No. 2) Order 2009.

(2) The collective citation, “the Taxes Consolidation Act 1997 (Accelerated Capital Allowances for Energy Efficient Equipment) Orders 2008 and 2009”, includes this Order.

2. In this Order “Principal Order” means the Taxes Consolidation Act 1997 (Accelerated Capital Allowances for Energy Efficient Equipment) Order 2008 (S.I. No. 399 of 2008).

3. The Principal Order is amended by substituting for Schedule 1 the following:

*Notice of the making of this Statutory Instrument was published in  
“Iris Oifigiúil” of 2nd October, 2009.*

## “SCHEDULE 1

### Energy Efficiency Criteria

#### Part 1

#### Category: Motors and Drives

#### Technology: Motors

*Motor — An asynchronous electric motor with a power rating of 1.1kW or greater, either standalone or as part of other equipment, meeting a specified efficiency standard.*

High efficiency motors are typically designed and constructed in such a manner as to reduce load losses (copper losses, rotor and stray load losses) and standing losses which are independent of the load (iron core and windage and friction losses).

#### **Motor Eligibility Criteria:**

In order to be included on the ACA Specified List, a motor must meet all of the requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

No.	Condition
1.	AC induction motor with rated shaft output greater than 1.1 kW.
2.	Meet the efficiency requirements listed on Table 1. according to IEC 60034-2 “Rotating Electrical machines — Standard methods for determining losses and efficiency from tests”, or scientific equivalent.
3.	Equipment must be CE Marked.
4.	Appropriate operating & maintenance manuals must be available to the end-user in order to optimise the achievement of any potential energy efficiency gains.

Table 1: Minimum Efficiency Criteria for Motors

Power (kW)	2 Pole <sup>1</sup> Efficiency % at Full load	4 Pole <sup>2</sup> Efficiency % at Full load	Equivalent Classification
1.1	82.8	83.8	<b>CEMEP EFF1</b>
1.5	84.1	85.0	
2.2	85.6	86.4	
3	86.7	87.4	
4	87.6	88.3	
5.5	88.6	89.2	
7.5	89.5	90.1	
11	90.5	91.0	
15	91.3	91.8	
18.5	91.8	92.2	
22	92.2	92.6	
30	92.9	93.2	
37	93.3	93.6	
45	93.7	93.9	
55	94.0	94.2	
75	94.6	94.7	
90	95.0	95.0	
110	95.4	95.4	<b>IEC 60034-30<sup>5</sup> IE3</b>
132	95.6	95.6	
160	95.8	95.8	
200	96.0	96.0	
370	96.0	96.0	
400	96.0	96.0	
> 400	96.0	96.0	See note 6

## Notes:

1. Minimum efficiencies for 2 and 4 pole motors in the range 1.1kW to 90kW are equivalent to CEMEP EFF1 class. Motors in the range >90kW to 400 kW are as per the proposed IEC 60034-30 classification.
2. For motors with more than 4 poles, the minimum efficiency criteria for 4-pole motors above shall apply.
3. Motors must be tested in accordance with IEC 60034-2.
4. Where a particular motor size is not listed, the required minimum efficiency level for the next size up must be met.
5. IEC efficiency classification is currently in draft form. IE3 level is defined as Premium Efficiency
6. Testing for motors above 400 kW must be certified by a body qualified and approved to test to IEC 60034-2 classification or equivalent. There is currently no prescribed efficiency requirement which must be achieved for motors above 400 kW. However, the results of such certification must be to the reasonable satisfaction of Sustainable Energy Ireland. Sustainable Energy Ireland may have regard, in this respect, to the prescribed standards for smaller motors set out in Table 1, prevalent or proposed standards for motors of that type and size.

## Part 2

### Category: Motors and Drives

#### Technology: Variable Speed Drives

*Variable speed drive: A drive that is specifically designed to drive an AC induction motor in a manner that rotates the motor's drive shaft at a variable speed dictated by an external signal.*

Typically a Variable Speed Drive (VSD) is a system that uses an external signal to control the rotational speed and torque of an AC induction motor by adjusting the frequency of the power supplied to the motor.

#### **VSD Eligibility Criteria:**

In order to be included on the ACA Specified list, a VSD must meet all of the requirements listed below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

No.	Condition
1.	Drive is specifically designed to drive an AC induction motor in a manner that rotates the motor's drive shaft at a variable speed dictated by an external signal.
2.	While in operation, the output from the VSD shall be able to be automatically matched to the changing motor load.
3.	The VSD must be able use an appropriate external control signal to vary its output frequency between 50% (or less) and 100% (or more) of the frequency of the alternating current supply with reference to real-time load conditions.
4.	Functionality must be capable of being programmed by the user during the commissioning process without recourse to specialist equipment. In the event that specialist software is required it must be provided as part of the contract of sale.
5.	The VSD shall comply with and have been tested according to IEC 61800-3 "Adjustable Speed Electrical Power Drive Systems Part 3: EMC Requirements and Specific Test Methods", or scientific equivalent.
6.	Appropriate operating & maintenance manuals must be available to the end-user in order to optimise the achievement of any potential energy efficiency gains.
7.	Training: For units above 15kW, appropriate training must be available to the end-user, such that the end user can run the system in an energy efficient manner.

### Part 3

#### Category: Lighting

#### Technology: Lighting

Energy Efficient lighting — lighting units, comprising fittings, lamps, and associated control gear, that meet specified efficiency criteria.

#### Lighting Unit definition

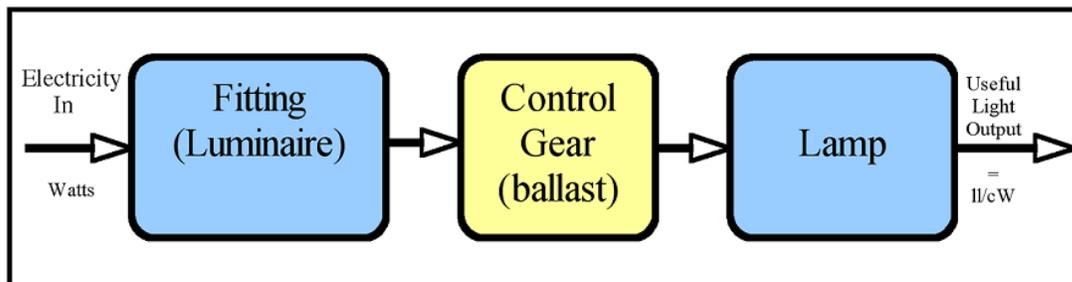


Fig. 1 — Three components of a lamp for the purpose of measuring efficiency.

#### Lighting Eligibility Criteria:

In order to be included on the ACA Specified List, energy efficient Lighting must meet all of the relevant requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

- A) Lighting units must include the three elements required for efficient light output: lamp, electronic control gear, and lamp fitting (see fig. 1). Lighting Units must comply with condition 1 and 2.
- B) Lighting gear (electronic ballasts) sold independently of lighting units must comply with condition 3.
- C) LED products must comply with condition 4.

General: All specified equipment must be CE marked as appropriate.

## A) Lighting Units Criteria

### **Condition 1 — Photometric performance**

The photometric data of the light fittings (Luminaires) must have been measured and tested in accordance with EN 13032-1 and 2 “Light and lighting — Measurement and presentation of photometric data of lamps and Luminaires”

— 1: “Measurement and file format”,

and

— 2: “Presentation of data for indoor and outdoor workplaces”

, or scientific equivalent.

### **Condition 2 — Efficiency Criteria**

The minimum efficiency criteria required for lighting units are outlined in Table 1. These criteria cover High pressure Sodium lamps, Metal Halide lamps, Linear Fluorescent lamps, triphosphor CFL lamps, and Induction lamps.

The calculation takes into account the efficiency of the lamps (Lumens per Watt), the power drawn by the control gear (measured in Watts), and the efficacy of the fitting in redirecting the light (Light Output Ratio, LOR)<sup>1</sup>. The output figure is Luminaire Lumens per circuit Watts (lm/cW).

Table 1: Minimum efficiencies table for lighting units.

<b>Luminaire Lumens per circuit Watts(lm/cW):</b>  <b><math>lm/cW = \frac{\text{total lamp lumens} \times \text{LOR}}{\text{circuit power drawn}}</math></b>	<b>Minimum lm/cW</b>
Units incorporating high-pressure sodium lamps	80
Units incorporating metal halide lamps	65
Units incorporating linear fluorescent lamps with associated electronic control gear integrated into fitting (luminaire)	50
Units incorporating triphosphor compact fluorescent lamps (CFL) with associated electronic control gear integrated into fitting (luminaire)	45
Units incorporating Induction lamps with external gear	45

<sup>1</sup> ULOR and DLOR values may be combined where the fitting is designed to provide direct and indirect lighting, otherwise only the LOR in the intended lighting direction may be used.

## **B) Lighting Gear (Ballasts)**

### **Condition 3**

Lighting Gear (ballasts) sold independent of Lighting Units must consist of the following:

- a) Luminaire adaptors converting units with electromagnetic ballasts from T8 or T12 fluorescent tubes (by the use of electronic conversion units) to T5 fluorescent tubes.

*and / or*

- b) Electronic high frequency (20,000 Hz+) ballasts for gas discharge lamps. Where lamps are included with the ballast it must be demonstrated that these are required in order to achieve efficiency improvements.

## **C) LED products criteria**

### **Condition 4**

LED units comprising LED chip, optics, heatsink, and associated control driver must achieve:

- $L_{70}$  lifetime rating — i.e. maintain 70% of initial<sup>2</sup> lumens output after 35,000 hours of continuous operation

and

- A minimum of 40 Lumens per circuit Watt.

<sup>2</sup> Initial lumens measured after 100 hours operation.

## Part 4

### Category: Lighting

#### Technology: Lighting Controls

Systems used to control lighting with the aim of optimising energy usage. These systems typically use intelligent timers, daylight sensing and/or occupancy sensing to control switching and/or dimming of lighting within different zones.

#### **Lighting Controls Eligibility Criteria:**

In order to be included on the ACA Specified List, a Lighting Control system must meet all of the relevant requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

No.	Condition
1.	The lighting control system must operate automatically using sensors and/or timers to control lighting equipment based on real-time conditions.
2.	The system must use switching and/or dimming control.
3.	Adjustment of lighting levels using dimming controls must be matched to the lighting requirement as measured by sensors within the lighted area.
4.	Where non lighting control modules can be added to a system, these are not included in the product identified for the scheme.
5.	All equipment must be CE marked where appropriate.

## Part 5

### Category: Building Energy Management Systems (BEMS)

#### Technology: Building Energy Management Systems (BEMS)

*Building Energy Management System (BEMS) are computer-based systems, designed to monitor and control building energy use with the aim of optimising energy efficiency and meeting specified efficiency standards.*

All components necessary to perform the energy saving function are included in the BEMS.

#### **BEMS Eligibility Criteria:**

In order to be included on the ACA Specified List, a BEMS must meet all of the relevant conditions set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

No.	Condition
1.	Be computer-based systems, designed to monitor and control building energy use, with the aim of optimising energy efficiency. This is taken to include systems that monitor energy and produce usage and trend data in sufficient detail to enable the user to fully control energy use.
2.	Primary inputs to the system must be energy use data and/or environmental conditions.
3.	The overall system must include a user interface.
4.	The system must allow the user to monitor and archive energy related data and have the capacity to generate standard interchange files that will allow other computer systems to use the data collected.
5.	All equipment must be CE Marked where appropriate.
6.	Appropriate training must be available to the end-user, such that the end user can run the system in an energy efficient manner.
7.	Appropriate operating & maintenance manuals must be available to the end-user in order to optimise the achievement of any potential energy efficiency gains.

## Part 6

### Category: Information and Communications Technology (ICT)

#### Technology: Enterprise Servers

*An Enterprise Server is defined as a computer that is especially designed to provide services and manage networked resources for client devices in a highly energy efficient manner. It is designed to respond to requests and is primarily accessed via network connections, and not through direct user input devices. Enterprise servers can be supplied with Virtualisation solutions installed to further increase server energy efficiency.*

#### Enterprise Server Eligibility Criteria:

In order to be included on the ACA Specified List, an Enterprise Server must meet all of the requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

No.	Condition
1.	Marketed and sold as an Enterprise Server.
2.	Designed for, and listed as, supporting Enterprise Server operating Systems and/or Hypervisors, and targeted to run user-installed enterprise applications.
3.	Be capable of remote power-down.
4.	Meet the relevant minimum performance to power ratios in Table 1, or scientifically equivalent measure.
5.	If a virtualisation solution is installed it must be capable of virtualising from a physical server to a virtual system <sup>3</sup> , automatically consolidating workloads and powering down unused equipment, and provisioning dynamically. The host physical server must be capable of accommodating a minimum of five virtual servers.

Table 1: Minimum server performance to power ratios

Server application	Minimum Ratio*
Performance at low utilisation of less than 30%.	> 350
Performance at moderate utilisation of 30% or greater, but less than 70%.	> 800
Performance at high utilisation of 70% or greater.	> 1050

#### \*Performance to Power Ratio:

The ratio is based on the Standard Performance Evaluation Corporation (SPEC) industry standard benchmark performance test, SPECpower— ssj2008.

<sup>3</sup> Physical to Virtual is often termed as P2V.

Under this test the energy use of a server is tracked (plug power) while the server performs a defined sequence of operational tasks.

The metric required is calculated using the sum of outputs (Throughput per Watt of power) and power consumed at 10% utilisation intervals as shown overleaf:

- Performance to power ratio measured at low utilisation  
=  $\Sigma \text{ssjobs}(0\%+10\%+20\%) / \Sigma \text{power} (0\%+10\%+20\%)$
- Performance to power ratio measured at moderate utilisation  
=  $\Sigma \text{ssjobs}(40\%+50\%+60\%) / \Sigma \text{power} (40\%+50\%+60\%)$
- Performance to power ratio measured at high utilisation  
=  $\Sigma \text{ssjobs}(80\%+90\%+100\%) / \Sigma \text{power} (80\%+90\%+100\%)$

Where:

- ssjobs = Workload at the specified utilisation level.
- Power = Energy consumed in Watts at specified utilisation level.

## Part 7

### Category: Information and Communications Technology (ICT)

#### Technology: Enterprise Storage

*Enterprise Storage equipment is defined as a storage device specifically designed to achieve very high levels of energy efficiency. A storage device is defined as an array of disks which consist of fast access iSCSI/Fibrechannel disks and/or larger and slower SATA disks.*

Enterprise Storage equipment is considered to include the following:

##### **Solid State Drive Storage**

A Solid State Drive storage unit is typically made up of solid-state electronics rather than electromechanical devices.

##### **Disk Drive Storage**

A Disk Drive storage unit is where data is recorded on planar, round and rotating surfaces.

#### **Eligibility Criteria Overview**

In order to be included on the ACA Specified List, the specific Enterprise Storage equipment must meet all of the relevant requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

#### **General Eligibility Criteria**

(Applicable to all Enterprise Storage Types)

No.	Condition
1.	Be supplied with management software capable of two of the following: <ul style="list-style-type: none"> <li>A. Data de-duplication, data compression or single instancing</li> <li>B. Thin/Virtual Provisioning</li> <li>C. Array Virtualisation</li> </ul>
2.	Must form part of one of the following enterprise storage solutions: <ul style="list-style-type: none"> <li>A. Storage Area Network (SAN)</li> <li>B. Direct Attached Storage (DAS)</li> <li>C. Network Attached Storage (NAS)</li> </ul>

**Solid State Drive Storage Specific Eligibility Criteria**

(To be met in addition to the general eligibility criteria)

No.	Condition
3.	Must be designed to form part of an enterprise storage solution and have a minimum storage capacity of 120 Gb.

**Disk Drive Storage specific Eligibility Criteria**

(To be met in addition to the general eligibility criteria)

No.	Condition
4.	Be capable of intelligent power-down, and drive spin-down or slow spin (MAID 2/IPM).
5.	Have a disk tiering strategy capable of supporting storage media with multiple power / capacity points with a factor of at least 2X between the slowest and fastest.

## Part 8

### Category: Information and Communications Technology (ICT)

#### Technology: Precision Cooling

*ICT Precision Cooling is defined as equipment that is designed to efficiently and effectively remove heat from enterprise IT equipment. This includes the most efficient cooling units and ancillary items designed to provide direct cooling and aid heat removal from IT rooms and cabinets.*

ICT Precision Cooling equipment is considered to include the following:

#### **Refrigerant based equipment—**

##### Computer Room Air Conditioners

Computer Room Air Conditioners (CRAC) are up-flow and down-flow units that use a refrigerant supply from an outside condenser and provide overall area cooling. CRAC and applicable condensers are appraised as a system and can include relevant containment equipment<sup>4</sup>.

##### Cooling Modules and Coolant Distribution Units (CDU)

Cooling Modules are units designed to provide localised cooling and may be connected directly, or via a CDU, to an outside condenser supplying the refrigerant. A CDU is a circulation system that is designed to distribute coolant to cooling modules. Refrigerant based Cooling Modules are appraised as a system which can include CDU and outside condensers.. All units can include relevant containment equipment.

#### **Water based equipment—**

##### Computer Room Air Handlers

Computer Room Air Handlers (CRAH) are up-flow and down-flow units that use a chilled water supply from a separate liquid chilling package to provide overall area cooling. CRAH are appraised as individual units and can include relevant containment equipment.

##### Cooling Modules and Coolant Distribution Units (CDU)

Cooling Modules are units designed to provide localised cooling and may be connected directly, or via a CDU, to a chilled water system. A CDU is a circulation system that is designed to distribute coolant to cooling modules. Water based Cooling Modules are appraised as a complete system which can include applicable CDU. All units can include relevant containment equipment.

<sup>4</sup> Containment Equipment are proprietary systems designed to channel air flow within IT rooms and cabinets with the aim of preventing hot and cold air streams mixing.

## Eligibility Criteria Overview

In order to be included on the ACA Specified List, the specific Precision Cooling equipment must meet all of the relevant requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

### General Eligibility Criteria

(Applicable to all Precision Cooling equipment)

No.	Condition
1.	All equipment and/or components must be CE marked as required by the specific EU directive(s).
2.	Relevant equipment must meet the cooling performance criteria, measured by the Energy Efficiency Ratio (EER) of the unit at 100% (full load) capacity, as indicated in Table 1.
3.	Relevant equipment must have a Sensible Heat Ratio, obtained according to EN14511 and the test conditions stipulated therein and below, greater than or equal to 0.9.
4.	Each system must include the following optimisation functions: <ul style="list-style-type: none"> <li>• Optimise operating parameters to match changes in load requirements</li> <li>• Where applicable, be capable of communicating with other control and cooling equipment for the purposes of system optimisation.</li> </ul>

### CRAC specific Eligibility Criteria:

(To be met in addition to the general eligibility criteria)

No.	Condition
5.	Compressors must have Variable Speed Drive control.
6.	EER values must be obtained according to appropriate test conditions included in EN14511 & EN14511-2 Table 4 “Standard Rating Conditions, Close Control”, or scientific equivalent, as follows: <ul style="list-style-type: none"> <li>• Indoor Unit — Air entering 24°C Dry Bulb, 17°C Wet Bulb.</li> <li>• Outdoor Unit — Air entering 35°C Dry Bulb, 24°C Wet Bulb.</li> </ul>

### CRAH specific Eligibility Criteria:

(To be met in addition to the general eligibility criteria)

No.	Condition
7.	EER values must be obtained according to appropriate test conditions included in EN14511 & EN14511-2 Table 6 & 8 “Standard Rating Conditions, Close Control” & Table 8 “Standard Rating Conditions, Water to Water”, or scientific equivalent, as follows: <ul style="list-style-type: none"> <li>• Indoor Unit — Air entering 24°C Dry Bulb, 17°C Wet Bulb.</li> <li>• Indoor Unit — Water entering 7°C, leaving 12°C.</li> </ul>

**Cooling Module & CDU specific Eligibility Criteria:**

(To be met in addition to the general eligibility criteria)

No.	Condition
8.	A means of maintaining the temperature of coolant loops above the dew point temperature in order to prevent condensation.
9.	Compressors (if applicable) must have Variable Speed Drive control.
10.	<p>For refrigerant based equipment, EER values must be obtained according to appropriate test procedures outlined in EN14511, or scientific equivalent, and for test conditions as follows:</p> <ul style="list-style-type: none"> <li>• Cooling Module — Air entering 37°C Dry Bulb, 20°C Wet Bulb.</li> <li>• Outdoor Unit — Air entering 35°C Dry Bulb, 24°C Wet Bulb.</li> </ul> <p>Or</p> <p>For water based equipment, EER values must be obtained according to appropriate test procedures outlined in EN14511, or scientific equivalent, and for test conditions as follows:</p> <ul style="list-style-type: none"> <li>• Cooling Module — Air entering 37°C Dry Bulb, 20°C Wet Bulb.</li> <li>• Cooling Module/CDU — Water entering 7°C, leaving 12°C.</li> </ul>

Table 1: Energy Efficiency Ratio (EER) requirements for cooling systems:

Type	EER
CRAC	≥3
CRAH	≥20
Cooling Module and CDU — Refrigerant based	≥2.0
Cooling Module and CDU — Water based	≥20

**Where:**

Energy Efficiency Ratio (EER) =	$\frac{\text{Total cooling capacity (kW)}}{\text{Effective power input (kW) in cooling mode.}}$
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## Part 9

### Category: Information and Communications Technology (ICT)

#### Technology: Heat Rejection

*ICT Heat Rejection is defined as equipment that is designed to achieve very high operational cooling efficiencies, and which is used to transfer heat from ICT Precision Cooling equipment to the external atmosphere.*

ICT Heat Rejection equipment is considered to include the following:

##### Air Cooled Liquid Chilling Packages

Air Cooled Liquid Chilling Packages generate a chilled water supply loop for water based precision cooling equipment and can include an integral free cooling system.

##### Water Cooled Liquid Chilling Packages

Water Cooled Liquid Chilling Packages generate a chilled water supply loop for water based precision cooling equipment.

##### Mechanical Draught Cooling Towers

Forced and induced Mechanical Draught Cooling Towers are wet systems which transfer heat from Water Cooled Liquid Chilling Packages by means of fan induced air circulation and can be used (in suitable ambient conditions) in parallel with Air Cooled Liquid Chilling Packages as a free cooling system.

##### Dry Air Coolers

Dry Air Coolers transfer heat from Water Cooled Liquid Chilling Packages by means of fan induced air circulation and can be used (in suitable ambient conditions) in parallel with Air Cooled Liquid Chilling Packages as a free cooling system.

#### Eligibility Criteria Overview

In order to be included on the ACA Specified List, the specific ICT Heat Rejection equipment must meet all of the relevant requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

### General Eligibility Criteria

(Applicable to all ICT Heat Rejection equipment)

No.	Condition
1.	All equipment and/or components must be CE marked as required by the specific EU directive(s).
2.	Each system must include the following optimisation functions: <ul style="list-style-type: none"> <li>• Optimise operating parameters to match changes in load requirements</li> <li>• Where applicable, be capable of communicating with other control and cooling equipment for the purposes of free cooling</li> </ul>

### Liquid Chilling Packages specific Eligibility Criteria

(To be met in addition to the general eligibility criteria)

No.	Condition
3.	Meet the cooling performance criteria for the applicable Thermal Load Capacity, measured by the Energy Efficiency Ratio (EER) of the <u>unit</u> at 100% (full) load capacity, as indicated in Table 1. <b>and</b> the European Seasonal Energy Efficiency Ratio (ESEER), as indicated in Table 1.
4.	Air cooled EER values must be obtained according to the test procedure EN14511 and standard rating conditions EN14511-2 Table 10 “Standard rating conditions, Water”, or scientific equivalent, as follows: <ul style="list-style-type: none"> <li>• Outdoor Unit — Water entering 12°C, leaving 7°C</li> <li>• Outdoor Unit — Air entering 35°C Dry Bulb</li> </ul>
5.	Water cooled EER values must be obtained according to the test procedure EN14511 and standard rating conditions EN14511-2 Table 8, or scientific equivalent, as follows: <ul style="list-style-type: none"> <li>• Outdoor Unit — Chilled Water Side — Water entering 12°C, leaving 7°C</li> <li>• Outdoor Unit — Heat Rejection Side — Water entering 30°C, leaving 35°C</li> </ul>
6.	Air and water cooled ESEER values must be according to the test procedure EN14511, or scientific equivalent, and the rating conditions as indicated in Table 2, to follow.

Table 1: Minimum cooling performance values

Type	Thermal Load Capacity (kW)	EER	ESEER
Air Cooled Liquid Chilling Package	100 to 1500	≥2.7	≥4.25
Water Cooled Liquid Chilling Package	100 to 3500	≥4.65	≥6.55

**Notes:**

Energy Efficiency Ratio (EER) is calculated as follows:

$$\text{EER} = \text{Net rejection capacity (kW)} / \text{Effective power input (kW) in cooling mode}$$

European Seasonal Energy Efficiency Ratio (ESEER) is calculated as follows:

$$\text{ESEER} = A * \text{EER}_{100\%} + B * \text{EER}_{75\%} + C * \text{EER}_{50\%} + D * \text{EER}_{25\%}$$

With the following weighting coefficients:

$$A = 0.03; B = 0.33; C = 0.41; D = 0.23$$

Table 2: ESEER test conditions

<b>Part Load Ratio</b>	<b>Air temperature (°C)</b>	<b>Water temperature (°C)</b>	<b>Weighting coefficients</b>
100	35	30	3.00%
75	30	26	33.00%
50	25	22	41.00%
25	20	18	23.00%

## Part 10

### Category: Information and Communications Technology (ICT)

#### Technology: Centralised Direct Current Power Distribution

*ICT Centralised Direct Current (DC) Power Distribution is defined as equipment that converts utility power from alternating current (AC) to direct current, with the purpose of eliminating the requirement for individual IT components to have their own AC/DC conversion transformers. Efficient Centralised DC Power Distribution equipment is seen as the initial required component of an overall advanced ICT electrical management system.*

#### Centralised DC Power Distribution Equipment Eligibility Criteria:

In order to be included on the ACA Specified List, Centralised DC Power Distribution equipment must meet all of the requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

No.	Condition
1.	Have a minimum rated output of 3kW at specified Voltage.
2.	Have a facility for the import of DC electrical power from a separate external source (e.g. a renewable source or battery storage)
3.	Have an efficiency of 96% at 50% (or greater) of rated output.
4.	Have “No Load” losses of maximum 5%.
5.	Operate in the Voltage output range —575V DC to —48V DC (+/- 10%).
6.	Have integrated facility and components (input, output and switching) to allow load switching control
7.	All equipment and/or components must be CE marked as required by the specific EU directive(s).

## Part 11

### Category: Information and Communications Technology (ICT)

#### Technology: Power Management

*ICT Power Management is defined as a system that provides monitoring, analysis, reporting and management tools to allow end users to manage and rationalise the power usage of IT equipment and resources with the aim of achieving optimal energy efficiency.*

Power management equipment is considered to include the following:

##### Power monitoring

Power monitoring is switchboard metering for individual circuits, including performance analysis, failure alarm and overheat sensing — status monitoring & reporting.

##### Remote power switching

Remote Power Switching equipment consists of intelligent power distribution units typically for use within IT server cabinets. These power boards can be remotely switched by computer software.

### Eligibility Criteria Overview

In order to be included on the ACA Specified List, the specific Power Management system must meet all of the relevant requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

#### **Power monitoring specific Eligibility Criteria:**

No.	Condition
1.	Automatic collection and collation of data at regular intervals.
2.	Automatic identification of data collection failures, missing data and the failure of communication to any sensing device.
3.	Automatic notification where device electrical consumption is outside selected value.
4.	All equipment and/or components must be CE marked as required by the specific EU directive(s).

**Remote power switching specific Eligibility Criteria:**

<b>No.</b>	<b>Condition</b>
5.	Allow selectable transfer between pre-defined operating modes.
6.	User selectable interface to remotely signal actuators for the purpose of controlling loads.
7.	Signalling capability back to monitoring device indicating the actuator state.
8.	All equipment and/or components must be CE marked as required by the specific EU directive(s).

## Part 12

### Category: Information and Communications Technology (ICT)

#### Technology: Uninterruptible Power Supply

*An ICT Uninterruptible Power Supply (UPS) is defined as energy efficient equipment which provides uninterrupted, regulated power from a separate source when utility power fails or falls outside predetermined parameters. UPS is considered an important component of an overall advanced ICT Electrical Management system*

ICT UPS equipment is considered to include the following:

##### Double Conversion UPS

Double Conversion UPS is an online UPS involving AC/DC rectification and DC/AC inversion with online batteries used as the primary energy store.

##### Delta Conversion UPS

Delta Conversion UPS is an online UPS utilising AC/DC rectification, battery energy store and DC/AC inversion. A delta transformer is also integrated to provide part load to the output.

##### Flywheel UPS

A Flywheel UPS uses a flywheel as an energy store. The flywheel provides energy until a secondary source of energy comes on line.

#### **UPS Eligibility Criteria:**

In order to be included on the ACA Specified List, UPS equipment must meet all of the relevant requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

No.	Condition
1.	Must incorporate AC / DC Inversion. <b>And</b> Double and Delta Conversion UPS must additionally incorporate AC / DC Rectification.
2.	Must have Integrated Filtering and Static Bypass. <b>And</b> Delta conversion UPS must additionally have a Delta Transformer.
3.	Must meet the minimum efficiency requirements set out in table 1.
4.	Must comply with EN 62040-3 “Uninterruptible Power Systems (UPS) Method of specifying the performance and test requirements”, or scientific equivalent.
5.	Must have a control system for transmitting and receiving performance data.
6.	All equipment and/or components must be CE marked as required by the specific EU directive(s).

Table 1 — UPS minimum efficiency requirements

<b>UPS Type</b>	<b>Efficiency @ 25% — 49% of rated full load (%)</b>	<b>Efficiency @ 50% — 100% of rated full load (%)</b>
Double Conversion UPS	≥ 92%	≥ 95%
Delta Conversion UPS	≥ 92%	≥ 95%
Flywheel UPS		≥ 95%

## Part 13

### Category: Heating and Electricity Provision

#### Technology: Co-generation

*Co-generation is defined as highly energy efficient equipment which can simultaneously generate a combination of heat, cooling energy and usable electrical power in a single thermodynamic process and which is intended primarily for on-site use.*

Co-generation equipment is considered to include the following:

#### Combined Heat and Power

Combined Heat and Power (CHP) is the simultaneous generation of heat and power in a single process.

#### Tri-generation

Tri-generation is the simultaneous generation of heat, cooling and power in a single process whereby the cooling effect is obtained through the CHP generated heat by means of an absorption chiller.

### Eligibility Criteria Overview

In order to be included on the ACA Specified List, the specific Co-generation equipment must meet all of the relevant requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

#### **General Co-generation Eligibility Criteria**

(Applicable to all Co-generation equipment)

No.	Condition
1.	All equipment and/or components must be CE marked as required by the specific EU directive(s).
2.	Appropriate operating and maintenance manuals must be available for the end-user as part of the main contract of sale in order to optimise the achievement of any potential efficiency improvements.

**CHP specific Eligibility Criteria:**

(To be met in addition to the general eligibility criteria)

No.	Condition
3.	The CHP unit must be a packaged unit with the power generation section and heat recovery section contained within a single enclosure, and should consist of a single prime mover.
4.	Units must have a minimum overall efficiency (thermal + electricity) greater than or equal to <b>80%</b> .
5.	The unit must have installed software to record levels of electricity and heat generated over a running period.
6.	The CHP Unit must include one main heat output system i.e. a system recovering heat from the prime mover and the exhaust gasses, and must have no inbuilt facility to dump heat.
7.	Must comply with IEC 60034-1 “Rotating electrical machines — Rating and performance”, or scientific equivalent. <b>and</b> Reciprocating engine CHP units must also comply with ISO 3046-1 “Reciprocating internal combustion engines — Performance — Part 1: Declarations of power, fuel and lubricating oil consumptions, and test methods — Additional requirements for engines for general use”, or scientific equivalent.

**Tri-generation specific Eligibility Criteria:**

(To be met in addition to the general eligibility criteria)

No.	Condition
8.	The heat & power element of the Trigeneration system must comply with the eligibility criteria for CHP units.
9.	The Absorption chiller must use the CHP heat source as its primary energy input. (The chiller should be an “indirect fired” Absorption chiller).
10.	The Absorption chiller must have a minimum COP of 0.6
11.	The Absorption chiller must meet and be tested according to the standard ARI (ANSI/ARI) 560-2000 “Absorption Water Chilling and Water Heating Packages”, or scientific equivalent.
12.	The units must have installed software to record levels of cooling achieved.

## Part 14

### Category: Heating and Electricity Provision

#### Technology: Wind Turbines

*A wind turbine is defined as advanced equipment which converts the wind's kinetic energy into rotary mechanical energy, which is then used for electricity generation primarily for on-site use.*

A Wind Turbine must always contain the turbine and supporting structure, the primary element, but may also comprise of a package, containing ancillary equipment, namely:

- Electrical management and/or control systems
- Energy storage system

provided these meet the relevant conditions listed below.

#### **Wind Turbine Eligibility Criteria:**

In order to be included on the ACA Specified list, a Wind Turbine must meet all of the relevant requirements listed below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

No.	Condition
1.	Must have a rating of greater than 5kW
2.	The wind turbine must comply with, and have been tested according to, the appropriate European standard(s), or scientific equivalent, applicable to its size and type.
3.	Inverters must be at least 90% efficient and comply with the appropriate European standard(s), or scientific equivalent, applicable to the connection interface type.
4.	Energy storage must have a charging efficiency of at least 75% and comply with the appropriate European standard(s), or scientific equivalent, applicable to the storage method chosen.
5.	All equipment and/or components must be CE marked as required by the specific EU directive(s).
6.	Appropriate operating and maintenance manuals must be available for the end-user as part of the main contract of sale in order to optimise the achievement of any potential efficiency improvements.

## Part 15

### Category: Heating and Electricity Provision

#### Technology: Hot Water Generation

*Hot Water Generation is defined as advanced equipment which provides heating and/or hot water primarily for on-site use.*

Hot Water Generation equipment is considered to include the following:

##### Direct Hot Water Heaters

Direct Hot Water Heaters combust fuel to provide hot water on demand, whereby the water used is heated directly by the boiler. They also have the facility to recover heat from the flue gases to maximise the heat output from the boiler.

##### Closed Loop Hot Water Heaters

Closed Loop Hot Water Heaters combust fuel to provide heating, whereby the delivery medium is a closed loop hot water system which can also indirectly heat water for on-site use. The equipment consists of the boiler and/or burner.

### Eligibility Criteria Overview

In order to be included on the ACA Specified List, the specific Hot Water Generation equipment must meet all of the relevant requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

#### General Eligibility Criteria

(Applicable to all Hot Water Generation equipment)

No.	Condition
1.	Condensing only.
2.	All equipment and/or components must be CE marked as required by the specific EU directive(s).

#### Direct Hot Water Heaters specific Eligibility Criteria:

(To be met in addition to the general eligibility criteria)

No.	Condition
3.	Net Thermal Efficiency tested at full load: <ul style="list-style-type: none"> <li>• Storage &amp; non-storage instantaneous types must be <math>\geq 102\%</math></li> <li>• Non storage circulator types must be <math>\geq 93\%</math></li> </ul>

No.	Condition
4.	<ul style="list-style-type: none"> <li>• Gas condensing water heaters must comply with all the requirements in the standard EN 89 “Gas-fired storage water heaters for the production of domestic hot water”, or scientific equivalent.</li> <li>• Gas condensing water heaters with atmospheric burners must comply with EN 26/A1 “ Gas-fired instantaneous water heaters for sanitary uses production, fitted with atmospheric burners (Including Corrigendum 1998)”, or scientific equivalent.</li> </ul>
5.	Modulating output — non-storage types must have the capability to vary their hot water output in response to changes in water demand, without initiating a purge cycle.
6.	Balanced flue on units with a rated output less than 70kW.

### Closed Loop Hot Water Heaters specific Eligibility Criteria:

(To be met in addition to the general eligibility criteria)

No.	Condition
7.	Boilers <70kW rated output Seasonal Thermal Efficiency must be $\geq 93\%$ (To be calculated according to S.I. No. 260/1994 as used in the Home-heating Appliance Register of Performance (HARP) database) <b>or</b> Boilers >70kW rated output Net Thermal Efficiency $\geq 93\%$ (To be calculated as per — UK DTI Efficiency Requirements for Hot-water Boilers, Oct 1995)
8.	Must be tested in accordance with BS 845: Part 1 ‘Methods for assessing thermal performance of boilers for steam, hot water and high temperature heat transfer fluids — Part 1 Concise Procedure’, or scientific equivalent. <b>and</b> <ul style="list-style-type: none"> <li>• Oil boilers must be tested in accordance with EN 304 “Heating boilers — Test code for heating boiler for atomising oil burners”, or scientific equivalent.</li> <li>• Oil &amp; gas shell boilers must comply with the acceptance tests set out in EN 12953-11 “Shell Boilers — Part 11: Acceptance tests”, or scientific equivalent.</li> <li>• Oil &amp; gas water tube boilers must comply with the acceptance tests set out in EN 12952-15 “Water-tube boilers and auxiliary installations. Acceptance tests”, or scientific equivalent.</li> <li>• Combination boilers must also comply with “EN 625-Gas-fired central heating boilers —Specific requirements for the domestic hot water operation of combination boilers of nominal heat input not exceeding 70 kW”, or scientific equivalent.</li> </ul>
9.	Incorporated burners must comply with Part 19 “Boiler Controls” eligibility criteria.
10.	Standing losses — 2% or less of boiler rated output.

## Part 16

### Category: Heating and Electricity Provision

#### Technology: Localised Steam Generators

*Localised Steam Generators are defined as equipment that rapidly and efficiently produces pressurised steam on demand primarily for on-site use, by use of a cold water feed through the combustion of fuel in a burner.*

#### **Localised Steam Generators Eligibility Criteria:**

In order to be included on the ACA Specified List, a Localised Rapid Steam Generator must meet all of the requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

No.	Condition
1.	Minimum Net Thermal Efficiency of 90% at full load in accordance with BS 845: Part 1: 'Methods for assessing thermal performance of boilers for steam, hot water and high temperature heat transfer fluids — Part 1 Concise Procedure', or scientific equivalent.
2.	Localised rapid steam generators must comply with the acceptance tests set out in I.S. EN 12952-15 "Water-tube boilers and auxiliary installations. Acceptance tests", or scientific equivalent.
3.	Standing losses — 2% or less of boiler rated output.
4.	Steam generation time (steaming rate) — maximum 8 minutes.
5.	Incorporated burners must comply with Part 19 "Boiler Controls" eligibility criteria.
6.	All equipment and/or components must be CE marked as required by the specific EU directive(s).

**Part 17****Category: Heating and Electricity Provision****Technology: Stationary Fuel Cell Systems**

*A Stationary Fuel Cell System is defined as an advanced non-mobile system which uses a fuel cell or fuel cells to efficiently generate electricity primarily for on-site use. A Fuel Cell is an electrochemical conversion device which converts a fuel (hydrogen or a hydrocarbon fuel) and an oxidant (air or pure oxygen) directly into electricity in the presence of an electrolyte.*

A Stationary Fuel Cell System must always contain one or more fuel cell modules, the primary element, but may also comprise of a package, containing ancillary equipment, namely:

- Fuel processing system
- Electrical management elements
- Monitoring & Control elements

provided these meet the relevant conditions listed below.

**Stationary Fuel Cell Systems Eligibility Criteria:**

In order to be included in the ACA specified list a Stationary Fuel Cell System must meet all of the requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

No.	Condition
1.	Must have an electrical power rating of 5kW or greater.
2.	For a Fuel Cell System <u>without</u> heat recovery the minimum electrical efficiency must be greater than 35% at full load, <b>or</b> For a Fuel Cell System <u>with</u> heat recovery the minimum overall efficiency must be greater than 75% at full load, according to EN 62282-3-2 “Stationary Fuel Cell Power Systems — Performance Test Methods”, or scientific equivalent, and the efficiency must be based on the lower heating value (LHV) of fuels.
3.	Equipment must comply with EN 62282-3-1 “Stationary Fuel Cell Power Systems — Safety”, or scientific equivalent, and all relevant Irish and European regulations.
4.	All equipment and/or components must be CE marked as required by the specific EU directive(s).
5.	Appropriate operating and maintenance manuals must be available for the end-user as part of the main contract of sale in order to optimise the achievement of any potential efficiency improvements.

## Part 18

### Category: Heating and Electricity Provision

#### Technology: Photovoltaic Systems

*A Photovoltaic (PV) System is defined as an advanced system which efficiently converts solar energy into electrical energy primarily for on-site use.*

A Photovoltaic System must always contain one or more photovoltaic modules and supporting structure, the primary element, but may also comprise of a package, containing ancillary equipment, namely:

- Tracker and/or Tracking mechanism
- Solar-concentrator
- Battery system
- Electrical management and/or control systems

provided these meet the relevant conditions listed below.

#### **Photovoltaic Systems Eligibility Criteria:**

In order to be included on the ACA Specified List, a Photovoltaic System must meet all of the relevant requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

No.	Condition
1.	Photovoltaic modules must comply with the relevant standards (design qualification and type approval), or scientific equivalent, and outputs specified in Table 1. (Photovoltaic module output per m <sup>2</sup> must be quoted in terms of Standard Test Conditions: Irradiance of 1000W/m <sup>2</sup> ; spectrum AM 1.5G; cell temperature 25°C)
2.	Inverters must be at least 90% efficient and comply with the appropriate European standard(s), or scientific equivalent applicable to the connection interface type.
3.	Energy storage must have a charging efficiency of at least 75% and comply with the appropriate European standard(s), or scientific equivalent, applicable to the storage method chosen.
4.	All equipment and/or components must be CE marked as required by the specific EU directive(s).
5.	Appropriate operating and maintenance manuals must be available for the end-user as part of the main contract of sale in order to optimise the achievement of any potential efficiency improvements.

Table 1 — Minimum photovoltaic module outputs:

<b>Type</b>	<b>Standard</b>	<b>Minimum Peak Watt (<math>W_p</math>) output per <math>m^2</math></b>
Crystalline silicon	EN 61215	110
Thin-film	EN 61646	30

## Part 19

### Category: Heating and Electricity Provision

#### Technology: Boiler Controls

*Boiler Controls are defined as specifically designed equipment that maximise the energy efficiency of new and/or existing boiler and burner plant.*

Boiler Controls equipment is considered to include the following:

##### Oxygen Trim Controls

Oxygen trim controls which automatically monitor the oxygen or carbon monoxide concentration in boiler flue gases and vary the air and fuel supply to the burner to limit excess or low oxygen concentrations in the fuel/air mix.

##### Burner Systems

Burner systems are designed to provide boiler modulation and combustion control through the use of digital microprocessor based systems with the aim of optimising energy use. They include new burners with controls and retrofit burner control systems.

##### Sequencers

Boiler sequencer controls which optimise fuel usage by managing the firing sequence of different boilers to ensure that the most efficient boiler(s) are selected to match the prevailing load conditions.

##### Metering

Energy meters which can track boiler performance and report boiler system efficiency to the user.

### Eligibility Criteria Overview

In order to be included on the ACA Specified List, the specific Boiler Controls equipment must meet all of the relevant requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

**Oxygen Trim Controls specific Eligibility Criteria:**

No.	Condition
1.	Equipment must contain the following elements: <ul style="list-style-type: none"> <li>• Electronic Oxygen (or Carbon Monoxide) sensor designed for fitting in the boiler flue near the boiler</li> <li>• Boiler temperature or pressure sensor</li> <li>• Actuated air supply control damper</li> <li>• Actuated valve on fuel supply</li> <li>• Control panel which takes a reading from the sensor and adjusts the air supply damper and fuel supply accordingly.</li> </ul>
2.	Overall equipment to be accurate to minimum accuracy of $\pm 1\%$ excess oxygen (“overall” refers to the “sum of errors” across the system)
3.	Must permit integration with burner management systems.
4.	Capability to output to BMS or other equivalent control system.

**Burner Systems specific Eligibility Criteria:**

No.	Condition
5.	Burners must have microprocessor based controls that are capable of continuously modulating burner output in response to measured temperature or pressure values over a turn-down ratio as appropriate below: <ul style="list-style-type: none"> <li>• Gas (<math>\geq 1,200\text{kW}</math>): <math>\geq 4</math> to 1</li> <li>• Oil (<math>\geq 1,200\text{kW}</math>): <math>\geq 2.5</math> to 1</li> <li>• Gas or dual fuel (<math>&lt; 1,200\text{kW}</math>): <math>\geq 3</math> to 1</li> <li>• Oil (<math>&lt; 1,200\text{kW}</math>): <math>\geq 2</math> to 1</li> </ul> <p>Note: Turn-down ratio is a measure of the range within which the burner can be adjusted. Turn down of 4 to 1 indicates adjustment in the range 25% to 100%.</p>
6.	Microprocessor must control the air/fuel ratio to limit Oxygen levels in exhaust gasses to the following levels: <ul style="list-style-type: none"> <li>• 3% O<sub>2</sub> at 100% rated boiler output</li> <li>• 4% O<sub>2</sub> at 50% rated boiler output</li> </ul>
7.	CO levels in the exhaust gases must be less than: <ul style="list-style-type: none"> <li>• 50 ppm for boilers <math>\geq 1,200\text{kW}</math></li> <li>• 100 ppm for boilers <math>&lt; 1,200\text{kW}</math></li> </ul>
8.	All valves and dampers to be fitted with precision servomotors.
9.	Burner must be fitted with an air damper which is fully closed on burner shutdown.
10.	All burner fans must be fitted with VSD control on the fan motor.
11.	Oil fired burners must comply with the performance criteria set out in IS EN 267, or scientific equivalent. <b>or</b> Gas fired burners must comply with the performance criteria set out in IS EN 676, or scientific equivalent.

**Sequencer specific Eligibility Criteria:**

No.	Condition
12.	The sequencer must be microprocessor based.
13.	Must use sensors to measure heating system flow and return temperatures.
14.	Must be able to control and isolate a minimum of two boilers.
15.	Must have the capability of storing and consulting individual control parameters for each connected boiler.
16.	Must select the appropriate boiler(s) based on the optimum efficiency of the whole system.
17.	All equipment and/or components must be CE marked as required by the specific EU directive(s).
18.	Appropriate operating & maintenance manuals must be available to the end-user in order to optimise the achievement of any potential energy efficiency gains.
19.	Training: Appropriate training must be available to the end-user, such that the end user can run the system in an energy efficient manner.

**Metering specific Eligibility Criteria**

No.	Condition
20.	Meter must be microprocessor based.
21.	Meter must be designed to measure the appropriate boiler parameters (Flow, temperature pressure) and calculate the associated energy usage in kW and kWh.
22.	Equipment must be specifically for use with boiler or steam systems with a view to optimising boiler efficiency.
23.	Meters must be able to measure across a varying load profile (wide turndown range).
24.	Meter output to have: <ul style="list-style-type: none"> <li>• Local display output.</li> <li>• Output to BEMS or equivalent system</li> </ul>
25.	Accuracy of equipment to be minimum $\pm 2\%$ .

## Part 20

### Category: Heating and Electricity Provision

#### Technology: Condensate Recovery Systems Eligibility Criteria

*Condensate Recovery Systems are defined as equipment which is specifically designed to efficiently recover condensate from steam installations in order to maximise their overall energy efficiency.*

Condensate Recovery Systems equipment is considered to include the following:

#### Condensate Recovery Vessels

Condensate recovery units are designed to handle hot condensate, which is commonly returned for use as boiler feedwater.

#### Steam Traps

Steam traps are devices which allow the discharge of condensate without allowing the release of steam from a steam & condensate installation.

#### Deaeration Tanks

Deaeration tanks remove oxygen and other dissolved gases from steam boiler feedwater to reduce corrosion and improve efficiency in the steam system.

### Eligibility Criteria Overview

In order to be included on the ACA Specified List, the specific Condensate Recovery Systems equipment must meet all of the relevant requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

#### Condensate Recovery Vessels specific Eligibility Criteria:

No.	Condition
1.	Must have low level, mid level & high level sensors in condensate recovery tank.
2.	Must have motorised valves on cold water feed & condensate return line
3.	Must include a control system which operates as follows: <ul style="list-style-type: none"> <li>• At high level, cold water feed is shut off &amp; condensate is diverted to drain</li> <li>• At mid level, cold water feed is shut off but condensate valve is open to allow condensate return to the tank</li> <li>• At low level both the condensate return &amp; the cold water feed valves are open to allow both to fill the tank.</li> </ul>

**Steam Traps specific Eligibility Criteria:**

No.	Condition
4.	Steam trap must be one of those defined in EN 26704 “Classification of automatic steam traps”, or scientific equivalent. <b>And</b> Steam trap must be designed and manufactured in accordance with IS/EN 26948 “Production and performance characteristic tests for automatic steam traps”, or scientific equivalent.
5.	Must include Failure Monitoring: <ul style="list-style-type: none"> <li>• Failure sensor located in the steam trap or in suitable device adjacent to it;</li> <li>• Output from sensor either to an intermediate device which communicates with a control system or directly to control system</li> <li>• Output to BMS, DCS, Delta V or other equivalent control system.</li> </ul>

**Deaeration Tanks specific Eligibility Criteria:**

No.	Condition
6.	Equipment must be capable of achieving a minimum dissolved oxygen concentration of 5 ppb by weight or less.
7.	Equipment must be rated for total removal of dissolved carbon dioxide.
8.	Low vent losses must be less than or equal to 22.4 kg/h of steam/air mixture per 1 000 kg/h of deaerator capacity.
9.	Allow rapid load changes of boiler for which designed — minimum of 5% of boiler rating in 30 seconds.
10.	All equipment and/or components must be CE marked as required by the specific EU directive(s).

## Part 21

### Category: Process and Heating, Ventilation and Air-conditioning (HVAC) Control Systems

#### Technology: Steam Systems

*A Steam System is defined as equipment specifically designed to maximise the energy efficiency of a boiler and/ or a heating system as a whole.*

Steam Systems equipment is considered to include the following:

#### Economisers

Economisers are heat exchangers installed in steam boiler flues whose purpose is to recover heat from the flue gases and thereby increase the overall efficiency of the steam boiler system.

#### TDS Boiler Blow-down Control

A TDS (Total Dissolved Solids) Boiler Blow-down Control replaces manual or timed control with an automatic control based on the percentage of TDS in the steam. This reduces the number and frequency of boiler blow-downs which in turn saves energy on steam boiler systems.

#### Flue Gas Shut off Damper

Flue Gas Shut off Dampers are installed in steam boiler flues to restrict airflow through the flue and thereby prevent heat loss from the boiler during standby.

### Eligibility Criteria Overview:

In order to be included on the ACA Specified List, the specific Steam System equipment must meet all of the relevant requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

#### **Economisers specific Eligibility Criteria:**

No.	Condition
1.	Thermal Efficiency <ul style="list-style-type: none"> <li>• Condensing: Minimum of 9% increase in the net boiler thermal efficiency for which it is designed</li> <li>• Non-condensing: Minimum of 3% increase in the net boiler thermal efficiency for which it is designed</li> </ul>
2.	Economiser performance must be measured using EN 308 “Heat exchangers — Test procedures for establishing performance of air to air and flue gases heat recovery devices”, or scientific equivalent.
3.	It must be declared what boiler fuel the economiser is suitable for use with.

**TDS Boiler Blow-down Control specific Eligibility Criteria:**

No.	Condition
4.	Must include Automatic control of boiler base blow-down valve in addition to manual bottom blow-down valve.
5.	Continuously monitor the % TDS level in boiler water at steam level
6.	Only allow blowdown when TDS concentration exceeds a minimum allowable level to maintain the TDS level below a set limit.
7.	All equipment and/or components must be CE marked as required by the specific EU directive(s).

**Flue Gas Shut Off Damper specific Eligibility Criteria:**

No.	Condition
8.	Automatic control & operation. Damper to close after post combustion purge operation.
9.	Damper to be to gas tight in accordance with DIN 25 414 or scientific equivalent.
10.	Safety interlocks to be included to prevent boiler firing when damper is closed.

## Part 22

### Category: Process and Heating, Ventilation and Air-conditioning (HVAC) Control Systems

#### Technology: Heating, Ventilation and Air Condition (HVAC) Zone Controls

*HVAC Zone Controls are defined as equipment specially designed to automatically control the amount of heating, cooling, ventilation and/or air conditioning that is supplied to defined areas within a building, known as zones, in an energy efficient manner.*

A HVAC Zone Control system must always contain one central module, the primary element, but may also comprise of a package, containing ancillary equipment, namely:

- Sensors (Temperature, Humidity, Occupancy)
- Calendar control
- Actuators to drive valves or dampers
- Multi-way valves

provided these meet the relevant conditions listed below.

#### **HVAC Zone Controls Eligibility Criteria**

In order to be included on the ACA Specified List, HVAC Zone Controls must meet all of the relevant requirements set out below

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

No.	Condition
1.	Must have the ability to automatically control the level of heating and cooling which occurs in a zone and must ensure that simultaneous heating and cooling does not occur (unless required for humidity control).
2.	Sensors must be calibrated in accordance with EN ISO 17025:, or scientific equivalent.
3.	Must utilise indoor and outdoor environmental conditions to determine the amount of heating and cooling which is supplied.
4.	If a damper control is used it must automatically regulate the air mixing ratio to ensure the optimum fresh air condition is achieved.
5.	All equipment and/or components must be CE marked as required by the specific EU directive(s).
6.	Appropriate operating and maintenance manuals must be available for the end-user as part of the main contract of sale in order to optimise the achievement of any potential efficiency improvements.

## Part 23

### Category: Process and Heating, Ventilation and Air-conditioning (HVAC) Control Systems

#### Technology: Heating, Ventilation and Air-conditioning (HVAC) Heat Recovery

*HVAC Heat Recovery is defined as equipment which is specially designed to allow the energy efficient transfer of energy from one air stream to another in both heating and cooling applications.*

HVAC Heat Recovery equipment is considered to include the following:

##### Run-around Coil heat exchangers

A Run-around Coil heat exchanger transfers energy from an exhaust stream to a supply stream via an energy transfer medium circuit (usually water) connecting the two energy streams.

##### Plate heat exchangers

Plate heat exchangers comprise of a series of formed plates through which air or liquid streams are channelled in alternate flows. Energy is transferred between an exhaust and supply stream via the exchangers and an energy transfer circuit.

##### Thermal Wheel heat exchangers

Thermal wheel heat exchangers are installed where the exhaust air stream is directly adjacent to the supply air stream. The wheel rotates slowly on an axis perpendicular to air flow. The rotation of the wheel transfers energy between the two streams.

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### Eligibility Criteria Overview

In order to be included on the ACA specified list, the specific HVAC Heat Recovery equipment must satisfy all of the relevant requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

**General HVAC Heat Recovery Eligibility Criteria**  
(Applicable to all HVAC Heat Recovery equipment)

No.	Condition
1.	All equipment and/or components must be CE marked as required by the specific EU directive(s).
2.	All required performance values must be tested according to EN 308 “Heat exchangers — Test procedures for establishing performance of air to air and flue gases heat recovery devices”, or scientific equivalent.

**Run-around heat exchangers specific Eligibility Criteria**  
(To be met in addition to the general eligibility criteria)

No.	Condition
3.	A minimum rated heat exchanger coil efficiency of 50%
4.	A maximum air side pressure drop across an individual heat exchanger coil of 100 Pa.
5.	A maximum water side pressure drop across an individual heat exchanger coil of 25 kPa

**Plate Heat exchangers specific Eligibility Criteria**  
(To be met in addition to the general eligibility criteria)

No.	Condition
6.	A minimum rated efficiency of 50%
7.	A maximum pressure drop across the heat exchanger of 250 Pa

**Thermal Wheel heat exchangers specific Eligibility Criteria**  
(To be met in addition to the general eligibility criteria)

No.	Condition
8.	A minimum rated efficiency of 70%
9.	A maximum pressure drop across the heat exchanger component of 200 Pa.

## Part 24

### Category: Process and Heating, Ventilation and Air-conditioning (HVAC) Control Systems

#### Technology: Pumps

*A high efficiency pump is defined as a machine designed for the energy-efficient on-site transfer of liquid, and which works by adding energy to the liquid by increasing its velocity and / or increasing its pressure, thus raising its kinetic (velocity) energy and/or potential (pressure) energy.*

#### Pumps Eligibility Criteria:

In order to be included on the ACA Specified List, a Pump must meet all of the requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

No.	Condition
1.	Must have a power rating greater than 1.1kW
2.	Must fall under one of the pump type categories as outlined in Table 1
3.	Must be tested in accordance with ISO 9906 grade 2., or scientific equivalent.
4.	Must have an efficiency level greater than that calculated using Equation 2 & 3, Table 2 and the appropriate C value specified for the specific pump type in Table 1
5.	All equipment and/or components must be CE marked as required by the specific EU directive(s).
6.	Pump curve plots and appropriate operating & maintenance manuals must be available for the end-user as part of the main contract of sale in order to optimise the achievement of any potential efficiency improvements.

Table 1: Eligible pump categories

Type	Sub-type	Speed (rpm)	Max C Value	Characteristics	Limits
Single stage end suction water pumps	End suction own bearing (ESOB)	1450	122.94	Operating temperature -10 to +120°C; Single suction, single impeller. All efficiencies based on full (untrimmed) impeller.	$Q_{bep\ min}=6m^3/h$ $n_{s\ min}= 6\ rpm$ $n_{s\ max}= 80\ rpm$ $P_{max}= 150\ kW$ $H_{max}= 90\ m$ at 1450rpm $H_{max}= 140\ m$ at 2900rpm
		2900	125.34		
	End suction close coupled (ESCC)	1450	124.07		
		2900	126.54		
	End suction close coupled in-line (ESCCI)	1450	127.30		
		2900	128.14		

Type	Sub-type	Speed (rpm)	Max C Value	Characteristics	Limits
Vertical multistage (MS) water pumps	All	1450	123.93	Operating temperature -10 to +120°C. Vertical multistage pumps in in-line and ring section design. Efficiency is measured and judged on the basis of a 3 stage pump	$Q_{bep} \leq 100 \text{ m}^3/\text{h}$ $n = 2900 \text{ rpm}$
		2900	127.75		
Submersible multistage (MSS)	All	2900	122.05	Pumps with nominal size 4" and 6"	n/a

**Where:**

C value = an efficiency correction factor which takes into account the fall off in efficiency when the pump is not operating at its exact "specific speed".

$n$  = Rotational speed (rpm)  $P$  = Power (kW)

$n_s$  = Pump specific speed (rpm) as calculated  $H$  = Head (m)

$Q_{bep}$  = Flow at best efficiency point ( $\text{m}^3/\text{h}$ )

Table 2.: Relevant pump equations

Eqn No.	Equation description
1	$n_s$ : Specific pump speed (rpm) at the best Efficiency point $n_s = n * \frac{(Q_{bep}/3600)^{0.5}}{(H_{bep}/i)^{0.75}}$
2	$\eta_{BOT-bep}$ : Minimum pump efficiency (%) level at the best efficiency point $\eta_{BOT-bep} = -11.48x^2 - 0.85y^2 - 0.38xy + 88.59x + 13.46y - C$
3	$\eta_{BOT-pl}$ : Minimum pump efficiency (%) level at part load $\eta_{BOT-pl} = 0.947 \eta_{BOT-bep}$

**Where:**

$x = \ln(n_s)$

$y = \ln(Q_{bep})$

$Q_{pl} = 0.75 Q_{bep}$

$i$  = Number of stages

$H_{bep}$  = Head at best efficiency point (m)

$\eta_{pl}$  = Efficiency at part load (%)

## Part 25

### Category: Process and Heating, Ventilation and Air-conditioning (HVAC) Control Systems

#### Technology: Hydraulic Power Recovery Turbine (HPRT)

*A HPRT is defined as a device designed for the energy-efficient on-site transfer of liquid and such that it can operate in two modes of operation depending upon the physical flows of fluid required in a system:*

*Mode 1 — Pump: Utilised to cause the hydraulic flow of a fluid, or increase the hydraulic flow of a fluid, typically water, in a system.*

*Mode 2 — Turbine: Operates such that the system recovers some of the kinetic energy associated with the flow of a fluid in a circuit and harnesses this to drive a generator or other useful power requirement.*

#### **HPRT Eligibility Criteria:**

In order to be included on the Specified List, a HPRT must meet all of the requirements below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

No.	Condition
1.	Be supplied complete with all required equipment to operate in the HPRT mode and be marked as a HPRT. This will include motor/ generator unit, pump/ turbine unit and associated control system and circuitry.
2.	All equipment and/or components must be CE marked as required by the specific EU directive(s).
3.	Appropriate operating and maintenance manuals must be available for the end-user as part of the main contract of sale in order to optimise the achievement of any potential efficiency improvements.

**Part 26****Category: Process and Heating, Ventilation and Air-conditioning (HVAC)  
Control Systems****Technology: Blowers**

*A blower is defined as a machine designed for the energy-efficient on-site transfer of gas in situations where its application will result in substantially lower energy usage compared to an air compressor used for the same application. A blower works by receiving energy from a rotating shaft and transmitting it to the air causing the air to move and can be used to produce positive pressures or alternatively negative pressures for industrial vacuum systems.*

**Blower Eligibility Criteria:**

In order to be included on the ACA specified list, a Blower must meet all of the requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

<b>No.</b>	<b>Condition</b>
1.	Must have a maximum discharge pressure of 1.2 kg/cm <sup>2</sup>
2.	Must have a nominal input power rating of greater than 1.1kW.
3.	Must have a specific ratio (the ratio of discharge pressure over suction pressure) of greater than or equal to 1.11 and less than or equal to 1.2
4.	All equipment and/or components must be CE marked as required by the specific EU directive(s).
5.	Appropriate operating and maintenance manuals must be available for the end-user as part of the main contract of sale in order to optimise the achievement of any potential efficiency improvements.

## Part 27

### Category: Process and Heating, Ventilation and Air-conditioning (HVAC) Control Systems

#### Technology: Fans

*A fan is defined as a rotary bladed machine designed for the energy-efficient on-site transfer of gas, which works by receiving mechanical energy and utilising it by means of one or more impeller(s) fitted with blades to maintain a continuous flow of air or other gas passing through it and whose work per unit mass does not normally exceed 25 kJ/kg.*

Fan equipment is considered to include the following:

Axial flow fan: A fan having a static pressure development with in-line entry and exit of the air.

Centrifugal fan: A radial flow fan comprising an impeller where the direction of the entry air flow is vertical to the direction of the exit air flow

Cross flow fan: A forward curved centrifugal fan with impeller of an increased axial length. The air entry to the casing is positioned on the scroll such that the air traverses the impeller

#### Fan Eligibility Criteria

In order to be included on the ACA Specified List, a Fan must meet all of the requirements set out below

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

No.	Condition
1.	Have a power rating greater than 1.1kW.
2.	Must fall under one of the fan type categories and minimum energy performance requirements as outlined in Table 1., and comply with ISO 5801 “Industrial fans — Performance testing using standardized airways”, or scientific equivalent.
3.	All equipment and/or components must be CE marked as required by the specific EU directive(s).
4.	Fan curve plots, operating & maintenance manual must be available as part of the contract of sale in order to optimise the achievement of any potential energy savings.

Table 2: Minimum overall fan energy performance requirements

Type	Characteristics	Min Efficiency (%)
		Power rating: 1.1-500 kW
Axial flow fan	In line air flow.	$3.9 * \ln(P_{el}) + 41.1$
Centrifugal fan	Forward with housing	$3.9 * \ln(P_{el}) + 46.1$
	Backward Curved Bladed Fan with and without housing	$5.25 * \ln(P_{el}) + 52.9$

**Where:**

$P_{el}$  = Electrical Power (kW)

ln = Natural Log

## Part 28

### Category: Electric and Alternative Fuel Vehicles

#### Technology: Electric Vehicles and Associated Charging Equipment

*An Electric Vehicle is defined as a vehicle covered under the EU vehicle categories set out in Table 1 and powered fully or partially by electricity. Associated Charging Equipment is accordingly defined as the equipment required to recharge the energy store of a full or partial electric vehicle.*

Electric Vehicles and Associated Charging Equipment is considered to include the following:

##### Battery Electric Vehicle

A Battery Electric Vehicle (BEV) is powered solely by electricity stored in batteries within the vehicle which need to be recharged by plugging into recharging points

##### Hybrid Electric Vehicle

A Hybrid Electric Vehicle (HEV) is a vehicle that derives its power from a combination of electricity stored in a battery and an internal combustion engine.

##### Plug-in Hybrid Electric Vehicles

Plug-in Hybrid Electric Vehicles (PHEV) operate similarly to conventional hybrid electric vehicles but the battery can also be recharged by plugging into recharging points.

##### Electric Vehicle Charging Equipment

Electric Vehicle Charging Equipment is the ancillary equipment necessary to recharge electric vehicles from an electricity point.

### Eligibility Criteria Overview

In order to be included on the ACA Specified List, the specific Electric Vehicles and/or Associated Charging Equipment must meet all of the relevant requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

#### Battery Electric Vehicle specific Eligibility Criteria:

No.	Condition
1.	The vehicle must have an electric motor size >1kW.
2.	If charging equipment is included in the vehicle it must comply with the associated European standard(s), or scientific equivalent, applicable to its type.

No.	Condition
3.	The vehicle must achieve a range of 60km before recharging.

### Hybrid and Plug-in Hybrid Electric Vehicles Specific Eligibility Criteria:

No.	Condition
4.	The vehicle must have an electric motor size >1kW.
5.	If charging equipment is included in the vehicle it must comply with the associated European standard(s), or scientific equivalent, applicable to its type.
6.	Vehicle category M1 must achieve a CO <sub>2</sub> emission of less than 120g/km (as determined by S.I. No. 443 of 2000).
7.	Light commercial vehicles from vehicle categories other than M <sub>1</sub> and up to 3,500kg must achieve a CO <sub>2</sub> emission of less than 175g/km (as determined by S.I. No. 443 of 2000).

### Electric Vehicle Charging Equipment specific Eligibility Criteria:

No.	Condition
8.	The equipment must comply with the appropriate European standard(s), or scientific equivalent, applicable to the type of charging equipment.

Table 1: Definition of EU vehicle categories according to Directives 2002/24/EC and 2007/46/EC

### Category L — Mopeds, Motorcycles, Motor Tricycles and Quadricycles

Category	Description
L1e	Two-wheel vehicles with a maximum design speed of not more than 45 km/h and characterised by an engine whose: <ul style="list-style-type: none"> <li>• maximum continuous rated power is no more than 4 kW in the case of an electric motor</li> </ul>
L2e	Three-wheel vehicles with a maximum design speed of not more than 45 km/h and characterised by an engine whose: <ul style="list-style-type: none"> <li>• maximum continuous rated power does not exceed 4 kW in the case of an electric motor</li> </ul>
L3e	Two-wheel vehicles without a sidecar fitted with an engine having a cylinder capacity of more than 50 cm <sup>3</sup> if of the internal combustion type and/or having a maximum design speed of more than 45 km/h
L4e	Two-wheel vehicles with a sidecar fitted with an engine having a cylinder capacity of more than 50 cm <sup>3</sup> if of the internal combustion type and/or having a maximum design speed of more than 45 km/h
L5e	Vehicles with three symmetrically arranged wheels fitted with an engine having a cylinder capacity of more than 50 cm <sup>3</sup> if of the internal combustion type and/or a maximum design speed of more than 45 km/h
L6e	Quadricycles whose unladen mass is not more than 350 kg, not including the mass of the batteries in case of electric vehicles, whose maximum design speed is not more than 45 km/h, and <ul style="list-style-type: none"> <li>• whose maximum continuous rated power does not exceed 4 kW in the case of an electric motor.</li> </ul> <p>These vehicles shall fulfil the technical requirements applicable to three-wheel mopeds of category L2e unless specified differently.</p>

Category	Description
L7e	Quadricycles other than those referred to in category L6e, whose unladen mass is not more than 400 kg (550 kg for vehicles intended for carrying goods), not including the mass of batteries in the case of electric vehicles, and whose maximum net engine power does not exceed 15 kW. These vehicles shall be considered to be motor tricycles and shall fulfil the technical requirements applicable to motor tricycles of category L5e unless specified differently.

**Category M** — Motor vehicles having at least four wheels and for the carriage of passengers

Category	Description
M1	Vehicles for the carriage of passengers and comprising not more than eight seats in addition to the driver's seat
M2	Vehicles for the carriage of passengers, comprising more than eight seats in addition to the driver's seat, and having a maximum mass not exceeding 5 tonnes
M3	Vehicles for the carriage of passengers, comprising more than eight seats in addition to the driver's seat, and having a maximum mass exceeding 5 tonnes

**Category N** — Power-driven vehicles having at least four wheels and for the carriage of goods

Category	Description
N1	Vehicles for the carriage of goods and having a maximum mass not exceeding 3.5 tonnes
N2	Vehicles for the carriage of goods and having a maximum mass exceeding 3.5 tonnes but not exceeding 12 tonnes
N3	Vehicles for the carriage of goods and having a maximum mass exceeding 12 tonnes

**Part 29****Category: Electric and Alternative Fuel Vehicles****Technology: Alternative Energy Vehicle Conversions**

*Alternative Energy Vehicle Conversions are defined as equipment used to convert an existing commercial diesel vehicle covered under the EU vehicle categories, as set out in Table 1, to operate on 100% bio-fuel.*

**Alternative Energy Vehicle Conversions Eligibility Criteria:**

In order to be included on the ACA Specified List, an Alternative Energy Vehicle Conversion must meet all of the requirements set out below.

*Note: Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

No.	Condition
1.	Must apply as a retrofit to existing commercial diesel vehicles only.
2.	Must apply for operation on 100% bio-fuel only.
2.	Must be for a conversion to a relevant Bio-fuel as defined in Article 2 of Directive 2003/30/EC.

Table 1: Definition of EU vehicle categories according to Directives 2002/24/EC and 2007/46/EC

**Category M** — Motor vehicles having at least four wheels and for the carriage of passengers

Category	Description
M1	Vehicles for the carriage of passengers and comprising not more than eight seats in addition to the driver's seat
M2	Vehicles for the carriage of passengers, comprising more than eight seats in addition to the driver's seat, and having a maximum mass not exceeding 5 tonnes
M3	Vehicles for the carriage of passengers, comprising more than eight seats in addition to the driver's seat, and having a maximum mass exceeding 5 tonnes

**Category N** — Power-driven vehicles having at least four wheels and for the carriage of goods

Category	Description
N1	Vehicles for the carriage of goods and having a maximum mass not exceeding 3.5 tonnes
N2	Vehicles for the carriage of goods and having a maximum mass exceeding 3.5 tonnes but not exceeding 12 tonnes

Category	Description
N3	Vehicles for the carriage of goods and having a maximum mass exceeding 12 tonnes

”

4. Part 1 of Schedule 2 to the Principal Order is amended by inserting the following:

“

ACA Code	Product Code	Product Name	Short Description	Manufacturer
MOT11174	22236921	Pegasus 1 Motor (UP5-11)	EFF1, TEFC Motor	Hebei
MOT11175	54735915	Pegasus 1 Motor (UP5-15)	EFF1, TEFC Motor	Hebei
MOT11176	54735949	Pegasus 1 Motor (UP5-18)	EFF1, TEFC Motor	Hebei
MOT11177	54735972	Pegasus 1 Motor (UP5-22)	EFF1, TEFC Motor	Hebei
MOT11178	22406151	Pegasus 2 Motor (UP5-22E)	EFF1, TEFC Motor	Hebei
MOT11179	22406102	Pegasus 2 Motor (UP5-30)	EFF1, TEFC Motor	Hebei
MOT11180	22406060	Pegasus 2 Motor (UP5-37)	EFF1, TEFC Motor	Hebei
MOT11630	83B15234	225SGrundfos MG	Grundfos EEf1, 4 Pole, TP Motor	Grundfos
MOT11631	83A15124	Grundfo.MG.160M	Grundfos EEf1, 2 Pole, NK Motor	Grundfos
MOT11632	96504782	Grundfos MG 090.S	Grundfos EEf1, 4 Pole, TP Motor	Grundfos
MOT11633	96504783	Grundfos MG 090L	Grundfos EEf1, 4 Pole, TP Motor	Grundfos
MOT11634	87262297a	Grundfos MG 100L,C	Grundfos EEf1, 2 Pole, TP Motor	Grundfos
MOT11635	87260324a	Grundfos MG 100L.B	Grundfos EEf1, 4 Pole, TP Motor	Grundfos
MOT11636	87264228a	Grundfos MG 100L.C	Grundfos EEf1, 4 Pole, TP Motor	Grundfos
MOT11637	87260322a	Grundfos MG 100LB	Grundfos EEf1, 4 Pole, TP Motor	Grundfos
MOT11638	96504786	Grundfos MG 112.M	Grundfos EEf1, 4 Pole, TP Motor	Grundfos
MOT11639	96504773	Grundfos MG 112M	Grundfos EEf1, 4 Pole, TP Motor	Grundfos
MOT11640	87312301a	Grundfos MG 112M,C	Grundfos EEf1, 2 Pole, TP Motor	Grundfos
MOT11641	87312402	Grundfos MG 112-M,C	Grundfos EEf1, 4 Pole, NK Motor	Grundfos
MOT11642	87312330a	Grundfos MG 112M.C	Grundfos EEf1, 4 Pole, TP Motor	Grundfos
MOT11643	87312371	Grundfos MG 112-M.C	Grundfos EEf1, 2 Pole, NK Motor	Grundfos
MOT11644	87312369	Grundfos MG 112-MC	Grundfos EEf1, 2 Pole, NK Motor	Grundfos
MOT11645	83B05222	Grundfos MG 132.M	Grundfos EEf1, 4 Pole, TP Motor	Grundfos
MOT11646	83B15217a	Grundfos MG 132.S	Grundfos EEf1, 4 Pole, TP Motor	Grundfos
MOT11647	87312229a	Grundfos MG 132.SC	Grundfos EEf1, 2 Pole, TP Motor	Grundfos
MOT11648	87312232a	Grundfos MG 132.SD	Grundfos EEf1, 2 Pole, TP Motor	Grundfos
MOT11649	83B05217	Grundfos MG 132S	Grundfos EEf1, 4 Pole, TP Motor	Grundfos
MOT11650	85817417	Grundfos MG 132SB	Grundfos EEf1, 2 Pole, CR Motor	Grundfos

ACA Code	Product Code	Product Name	Short Description	Manufacturer
MOT11651	87312227	Grundfos MG 132SC	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11652	87312230	Grundfos MG 132SD	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11653	96504757	Grundfos MG 160,M	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11654	87313004	Grundfos MG 160.MC	Grundfos EEF1, 2 Pole, TP Motor	Grundfos

ACA Code	Product Code	Product Name	Short Description	Manufacturer
MOT11655	96504759	Grundfos MG 160L	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11656	81825726	Grundfos MG 160MB	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11657	87313002	Grundfos MG 160MC	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11658	83B15228	Grundfos MG 180.M	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11659	83A15132	Grundfos MG 200,L	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11660	83215132	Grundfos MG 200.L	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11661	83115134	Grundfos MG 200LB	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11662	83105136	Grundfos MG 225.M	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11663	83B15436	Grundfos MG 225M	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11664	83215134	Grundfos MG 225S	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11665	83A15238	Grundfos MG 250,M	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11666	83B15440	Grundfos MG 280,S	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11667	83A15442	Grundfos MG 280.M	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11668	83A15440	Grundfos MG 280.S	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11669	83A15242	Grundfos MG 280M	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11670	83B15242	Grundfos MG 280S	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11671	96508873	Grundfos MG 315	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11672	83A15248	Grundfos MG 315.L	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11673	83A15246	Grundfos MG 315.M	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11674	83B15444	Grundfos MG 315.S	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11675	83B15248	Grundfos MG 315L	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11676	83115148	Grundfos MG 315LA	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11677	83B15146	Grundfos MG 315MA	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11678	83A15444	Grundfos MG 315S	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11679	96509255	Grundfos MG 400	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11680	87210393	Grundfos MG 90,LC	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11681	87210390	Grundfos MG 90,SB	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11682	87210319d	Grundfos MG 90.LC	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11683	87210360	Grundfos MG 90L,C	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11684	85D05510	Grundfos MG 90LA	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11685	87210354	Grundfos MG 90S,A	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11686	87210357	Grundfos MG 90S,B	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11687	87210286a	Grundfos MG 90S.A	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11688	85D05906a	Grundfos MG 90S.B	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11689	87210289a	Grundfos MG 90SB	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11690	83B05224	Grundfos MG,160M	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11691	81D15340	Grundfos MG,280S	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11692	96509252	Grundfos MG,355	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11693	83215130	Grundfos MG,80L	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11694	96504784	Grundfos MG.100l	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11695	83B15122	Grundfos MG.132M	Grundfos EEF1, 4 Pole, NK Motor	Grundfos

ACA Code	Product Code	Product Name	Short Description	Manufacturer
MOT11696	83A05228	Grundfos MG.160.L	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11697	83B15224	Grundfos MG.160.M	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11698	83A15126	Grundfos MG.160M	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11699	83205130	Grundfos MG.180L	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11700	83A15230	Grundfos MG.180M	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11701	81D25340	Grundfos MG.280,S	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11702	81D05340	Grundfos MG.280S	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11703	96509251	Grundfos MG.315	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11704	83B15446	Grundfos MG.315MA	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11705	96509256	Grundfos MG.400	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11706	83A15128	Grundfos MG/160,L	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11707	81D25326	Grundfos MG/160.M	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11708	83205126	Grundfos MG/160L	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11709	81D15326	Grundfos MG/160M	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11710	83A15136	Grundfos MG/225M	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11711	83205140	Grundfos MG/280.S	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11712	83B15128	Grundfos MG\ 180M	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11713	81D25328	Grundfos MG\160.L	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11714	83B15142	Grundfos MG\280,S	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11715	83B15140	Grundfos MG\280.S	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11716	83A15140	Grundfos MG\280S	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11717	83A15244	Grundfos MG>315.S	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11718	87260398	Grundfos MG-100,LB	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11719	87260324	Grundfos MG100.LB	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11720	96504771	Grundfos MG100L	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11721	87260322	Grundfos MG100LB	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11722	87260396	Grundfos MG-100LB	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11723	87312330	Grundfos MG-112,MC	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11724	87312303a	Grundfos MG-112.M.C	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11725	87312301	Grundfos MG-112.MC	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11726	87312328	Grundfos MG-112M.C	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11727	83B15117	Grundfos MG132,S	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11728	85D17417	Grundfos MG132,SC	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11729	85D17422	Grundfos MG132,SD	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11730	85D07417	Grundfos MG132.SC	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11731	87312377	Grundfos MG132.SD	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11732	83B15217	Grundfos MG132S	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11733	87312229	Grundfos MG132SC	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11734	87312232	Grundfos MG132SD	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11735	83B15226	Grundfos MG160,L	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11736	83215124	Grundfos MG160,M	Grundfos EEF1, 4 Pole, NK Motor	Grundfos

ACA Code	Product Code	Product Name	Short Description	Manufacturer
MOT11737	81D25324	Grundfos MG-160,M	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11738	83B05226	Grundfos MG160.L	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11739	83A15428	Grundfos MG-160.L	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11740	83B15424	Grundfos MG160.M	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11741	85D17424	Grundfos MG160.MC	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11742	81325726	Grundfos MG160L	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11743	83B15426	Grundfos MG-160L	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11744	83205124	Grundfos MG160M	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11745	81D05326	Grundfos MG-160M	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11746	83B15124	Grundfos- MG-160M	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11747	83115424	Grundfos MG160MA	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11748	85D07424	Grundfos MG160MC	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11749	83B15230	Grundfos MG180.L	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11750	83A05232	Grundfos MG200,L	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11751	81D25334	Grundfos MG-200,L	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11752	83B15232	Grundfos MG200.L	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11753	81D15334	Grundfos MG-200.L	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11754	83B05232	Grundfos MG200L	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11755	81D05334	Grundfos MG-200L	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11756	83215136	Grundfos MG225,M	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11757	81D25336	Grundfos MG-225,M	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11758	83A15236	Grundfos MG225.M	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11759	83B15136	Grundfos- MG225.M	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11760	81D15336	Grundfos MG-225.M	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11761	83B15236	Grundfos MG225M	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11762	83115136	Grundfos MG-225M	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11763	83205134	Grundfos MG225S	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11764	83A15240	Grundfos MG280,S	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11765	83105140	Grundfos MG-280,S	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11766	83A15142	Grundfos MG280.M	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11767	83B15240	Grundfos MG280S	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11768	83B15442	Grundfos MG-280S	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11769	83B15244	Grundfos MG315,S	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11770	83B15448	Grundfos MG315L	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11771	83105148	Grundfos MG315LA	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11772	83A15144	Grundfos MG315S	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11773	85D05906	Grundfos MG-90,SB	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11774	85D15105	Grundfos MG-90.LC	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11775	87210316	Grundfos MG-90.SB	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11776	87210294	Grundfos MG90L.C	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11777	85D15510	Grundfos MG-90L.C	Grundfos EEF1, 2 Pole, CR Motor	Grundfos

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MOT11778	87210319c	Grundfos MG90LC	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11779	85D05908b	Grundfos MG-90LC	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11780	87210316b	Grundfos MG90S.B	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11781	87210289	Grundfos MG-90S.B	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11782	85D05905	Grundfos MG90SA	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11783	86D05905	Grundfos MG90SB	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11784	87210316a	Grundfos MG-90SB	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11785	81825728	Grundfos MMG 160L	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11786	81325730	Grundfos MMG 180.L	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11787	81325728	Grundfos MMG 180M	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11788	81825732	Grundfos MMG 200L	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11789	83105150	Grundfos MMG 315LB	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11790	81325722	Grundfos MMG132M	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11791	81325724	Grundfos MMG160M	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11792	96492435	Grundfos MMG90S	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11793	83B15222	Grundfos,MG 132M	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11794	83A15430	Grundfos,MG 180.M	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11795	83B15430	Grundfos,MG 180L	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11796	87210286	Grundfos,MG 90SA	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11797	83215142	Grundfos,MG,280M	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11798	87262365	Grundfos,MG.100.LC	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11799	87264228	Grundfos,MG.100LC	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11800	83A15226	Grundfos,MG.160.M	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11801	83205138	Grundfos,MG.250M	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11802	81D05336	Grundfos,MG-225M	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11803	83115142	Grundfos,MG280M	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11804	83A15436	Grundfos. MG.225,M	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11805	83215126	Grundfos. MG/160.L	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11806	87312303	Grundfos. MG-112M.C	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11807	83215140	Grundfos..MG/280,S	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11808	83B15432	Grundfos..MG200.L	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11809	83A15432	Grundfos./MG200L	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11810	96509254	Grundfos./MG355	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11811	96504772	Grundfos.MG 100L	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11812	87262327c	Grundfos.MG 100LC	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11813	87312328a	Grundfos.MG 112MC	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11814	83B15222a	Grundfos.MG 132M	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11815	83A15228	Grundfos.MG 160,L	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11816	83A05226	Grundfos.MG 160.M	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11817	83A05230	Grundfos.MG 180.M	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11818	83B05230	Grundfos.MG 180L	Grundfos EEF1, 4 Pole, TP Motor	Grundfos

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MOT11819	83A15234	Grundfos.MG 200L	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11820	83105134	Grundfos.MG 200LB	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11821	81D05332	Grundfos.MG 200LK	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11822	83B15434	Grundfos.MG 225S	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11823	83A15438	Grundfos.MG 250M	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11824	83B15238	Grundfos.MG 250-M	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11825	83B15148	Grundfos.MG 315.L	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11826	83B15450	Grundfos.MG 315L	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11827	85D05908a	Grundfos.MG 90L.C	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11828	85D05105	Grundfos.MG 90LC	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11829	87262363	Grundfos.MG,100,LC	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11830	83A15130	Grundfos.MG,180L	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11831	83115138	Grundfos.MG,250M	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11832	83215150	Grundfos.MG,315,L	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11833	87210292a	Grundfos.MG,90LC	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11834	96504785	Grundfos.MG.100.L	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11835	87262327b	Grundfos.MG.100.LC	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11836	83C02206	Grundfos.MG.100L	Grundfos EEF1, 6 Pole, NB Motor	Grundfos
MOT11837	87262297	Grundfos.MG.100LC	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11838	85D15413	Grundfos.MG.112,MC	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11839	85D07422	Grundfos-.MG.112.MC	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11840	85D05413	Grundfos.MG.112MC	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11841	87312404	Grundfos.MG.112-MC	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11842	96504758	Grundfos.MG.160M	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11843	83A15134	Grundfos.MG.200.L	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11844	81D25332	Grundfos.MG.200.LK	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11845	83205132	Grundfos.MG.200L	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11846	81D15332	Grundfos.MG.200LK	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11847	83105138	Grundfos.MG.250.M	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11848	83B15438	Grundfos.MG.250M	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11849	83205142	Grundfos.MG.280M	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11850	83205150	Grundfos.MG.315,L	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11851	83A15148	Grundfos.MG.315L	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11852	87210362	Grundfos.MG.90L,C	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11853	81D05328	Grundfos.MG/160.L	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11854	83B15126	Grundfos.MG/160L	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11855	87262295a	Grundfos.MG100LC	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11856	83A15424	Grundfos.MG160M	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11857	83A15434	Grundfos.MG200,L	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11858	96504761	Grundfos.MG200.L	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11859	83B15132	Grundfos.MG200L	Grundfos EEF1, 4 Pole, NK Motor	Grundfos

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MOT11860	83205136	Grundfos.MG225.M	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11861	83105142	Grundfos.MG280M	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11862	83B15144	Grundfos.MG315S	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11863	96509253	Grundfos.MG355	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11864	87210292	Grundfos.MG90L.C	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11865	81825730	Grundfos.MMG 180M	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11866	83115150	Grundfos.MMG 315LB	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11867	81825724	Grundfos.MMG160MA	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11868	87262399	Grundfos/MG 100LC	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11869	83B15130	Grundfos/MG 180L	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11870	96504760	Grundfos/MG, 180M	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11871	85D15908	Grundfos/MG,100.LC	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11872	87262401	Grundfos/MG.100LC	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11873	83B05228	Grundfos/MG.180M	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11874	83205128	Grundfos/MG/180.M	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11875	83B15428	Grundfos/MG/180M	Grundfos EEF1, 4 Pole, NB Motor	Grundfos
MOT11876	83215128	Grundfos\MG 180M	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11877	81D25330	Grundfos\MG,180,M	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11878	81D15330	Grundfos\MG,180M	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11879	81D05330	Grundfos\MG. 180M	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11880	87262295	Grundfos\MG.100LC	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11881	83115140	Grundfos> MG/280S	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11882	81D15328	Grundfos> MG\160L	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11883	83215138	Grundfos-MG 250M	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11884	83A15448	GrundfosMG 315L	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11885	83A15150	Grundfos-MG 315L	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11886	83B15246	GrundfosMG 315M	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11887	85D05905a	GrundfosMG 90SA	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11888	81D15338	Grundfos-MG,250,M	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11889	81D05338	Grundfos-MG,250M	Grundfos EEF1, 2 Pole, CR Motor	Grundfos
MOT11890	83B15138	Grundfos-MG.250M	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11891	83B15250	Grundfos-MG.315.L.	Grundfos EEF1, 4 Pole, TP Motor	Grundfos
MOT11892	83B15150	Grundfos-MG.315L	Grundfos EEF1, 4 Pole, NK Motor	Grundfos
MOT11893	83A15426	GrundfosMG160M	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11894	83A15232	GrundfosMG200L	Grundfos EEF1, 2 Pole, TP Motor	Grundfos
MOT11895	83A15146	GrundfosMG315.M	Grundfos EEF1, 2 Pole, NK Motor	Grundfos
MOT11896	83A15450	GrundfosMG315L	Grundfos EEF1, 2 Pole, NB Motor	Grundfos
MOT11897	83A15446	GrundfosMG315M	Grundfos EEF1, 2 Pole, NB Motor	Grundfos

<b>Aca Code</b>	<b>Product Code</b>	<b>Product Name</b>	<b>Short Description</b>	<b>Manufacturer</b>
MOT12749	WU-DA160LR	W series	W aluminium 160 frame motor	Brook Crompton
MOT12750	WU-DA160MJ	W series 160MJ	W aluminium 160 frame motor	Brook Crompton
MOT12751	WU-DA180ME	W series 180ME	W aluminium 180 frame motor	Brook Crompton
MOT12752	WP-DF200LNX	W series 200LNX 4P	W cast iron 200 frame motor	Brook Crompton
MOT12753	WP-DF225SN	W series 225SN 4P	W cast iron 225S frame motor	Brook Crompton
MOT13178	W-DA112MM24.0	W Series Aluminium	4Kw 2 pole	Brook Crompton
MOT13179	W-DA132SE25.5	W Series 5.5Kw 2 pole	5.5Kw 2 pole	Brook Crompton
MOT13180	W-DA132SE27.5	W Series 7.5Kw 2 pole	7.5Kw 2 pole	Brook Crompton
MOT13181	W-DA132SE211	W Series 11Kw 2 pole	11Kw 2 pole	Brook Crompton
MOT13182	W-DA132SE215	W Series 15Kw 2 pole	15Kw 2 pole	Brook Crompton
MOT13184	W-DA132SE222	W Series 22Kw 2 pole	22Kw 2 pole	Brook Crompton
MOT13185	W-DA132SE411	W Series 11Kw 4 pole	11Kw 4 pole	Brook Crompton
MOT13186	W-DA132SE415	W Series 15Kw 4 pole	15Kw 4 pole	Brook Crompton
MOT13187	W-DA132SE418.5	W Series 18.5Kw 4 pole	18.5Kw 4 pole	Brook Crompton
MOT13188	W-DA132SE422	W Series 22Kw 4 pole	22Kw 4 pole	Brook Crompton
MOT13189	WP-DF80MM21.1	WP Series 1.1Kw 2 pole	1.1Kw 2 pole	Brook Crompton
MOT13190	WP-DF90LMX21.5	WP Series 1.5Kw 2 pole	1.5Kw 2 pole	Brook Crompton
MOT13191	WP-DF90LSX22.2	WP Series 2.2Kw 2 pole	2.2Kw 2 pole	Brook Crompton
MOT13192	WP-DF90LSX23.0	WP Series 3.0Kw 2 pole	3.0Kw 2 pole	Brook Crompton
MOT13193	WP-DF112MMX24.0	WP Series 4.0Kw 2 pole	4.0Kw 2 pole	Brook Crompton
MOT13194	WP-DF132SEX25.5	WP Series 5.5Kw 2 pole	5.5Kw 2 pole	Brook Crompton
MOT13195	WP-DF132SJX27.5	WP Series 7.5Kw 2 pole	7.5Kw 2 pole	Brook Crompton
MOT13196	WP-DF160MB211	WP Series 11Kw 2 pole	11Kw 2 pole	Brook Crompton
MOT13197	WP-DF160MJ215	WP Series 15Kw 2 pole	15Kw 2 pole	Brook Crompton
MOT13198	WP-DF160LR218.5	WP Series 18.5Kw 2 pole	18.5Kw 2 pole	Brook Crompton

Aca Code	Product Code	Product Name	Short Description	Manufacturer
MOT13199	WP-DF180ME222	WP Series 22Kw 2 pole	22Kw 2 pole	Brook Crompton
MOT13200	WP-DF200LGX230	WP Series 30Kw 2 pole	30Kw 2 pole	Brook Crompton
MOT13201	WP-DF200LGX237	WP Series 37Kw 2 pole	37Kw 2 pole	Brook Crompton
MOT13202	WP-DF225MN245	WP Series 45Kw 2 pole	45Kw 2 pole	Brook Crompton
MOT13203	WP-DF250SN255	WP Series 55Kw 2 pole	55Kw 2 pole	Brook Crompton
MOT13204	WP-DF250MN275	WP Series 75Kw 2 pole	75Kw 2 pole	Brook Crompton
MOT13205	WP-DF280SN290	WP Series 90Kw 2 pole	90Kw 2 pole	Brook Crompton
MOT13206	WP-DF280MN2110	WP Series 110Kw 2 pole	110Kw 2 pole	Brook Crompton
MOT13207	WP-DF315SN2132	WP Series 132Kw 2 pole	132Kw 2 pole	Brook Crompton
MOT13208	WP-DF315MN2150	WP Series 150Kw 2 pole	150Kw 2 pole	Brook Crompton
MOT13209	WP-DF315MP2160	WP Series 160Kw 2 pole	160Kw 2 pole	Brook Crompton
MOT13210	WP-DF315LN2185	WP Series 185Kw 2 pole	185Kw 2 pole	Brook Crompton
MOT13211	WP-DF315LN2200	WP Series 200Kw 2 pole	200Kw 2 pole	Brook Crompton
MOT13212	WP-DF355SG225	WP Series 225Kw 2 pole	225Kw 2 pole	Brook Crompton
MOT13213	WP-DF355SJ250	WP Series 250Kw 2 pole	250Kw 2 pole	Brook Crompton
MOT13214	WP-DF355SN280	WP Series 280Kw 2 pole	280Kw 2 pole	Brook Crompton
MOT13215	WP-DF355MJ2315	WP Series 315Kw 2 pole	315Kw 2 pole	Brook Crompton
MOT13216	WP-DF355MN2355	WP Series 355Kw 2 pole	355Kw 2 pole	Brook Crompton
MOT13217	WP-DF355LN2400	WP Series 400Kw 2 pole	400Kw 2 pole	Brook Crompton
MOT13218	WP-DF90LRX41.1	WP Series 1.1Kw 4 pole	1.1Kw 4 pole	Brook Crompton
MOT13219	WP-DF90LWX41.5	WP Series 1.5Kw 4 pole	1.5Kw 4 pole	Brook Crompton
MOT13220	WP-DF100LRF412.2	WP Series 2.2Kw 4 pole	2.2Kw 4 pole	Brook Crompton
MOT13221	WP-DF100LTF413.0	WP Series 3.0Kw 4 pole	3.0Kw 4 pole	Brook Crompton
MOT13222	WP-DF112MWX44.0	WP Series 4.0Kw 4 pole	4.0Kw 4 pole	Brook Crompton
MOT13223	WP-DF132STX45.5	WP Series 5.5Kw 4 pole	5.5Kw 4 pole	Brook Crompton
MOT13224	WP-DF132MVX47.5	WP Series 7.5Kw 4 pole	7.5Kw 4 pole	Brook Crompton

Aca Code	Product Code	Product Name	Short Description	Manufacturer
MOT13225	WP-DF160MJ411	WP Series 11Kw 4 pole	11Kw 4 pole	Brook Crompton
MOT13226	WP-DF160LR415	WP Series 15Kw 4 pole	15Kw 4 pole	Brook Crompton
MOT13227	WP-DF180ME418.5	WP Series 18.5Kw 4 pole	18.5Kw 4 pole	Brook Crompton
MOT13228	WP-DF180LJ422	WP Series 22Kw 4 pole	22Kw 4 pole	Brook Crompton
MOT13229	WP-DF200LNX430	WP Series 30Kw 4 pole	30Kw 4 pole	Brook Crompton
MOT13230	WP-DF225SN437	WP Series 37Kw 4 pole	37Kw 4 pole	Brook Crompton
MOT13231	WP-DF225MN445	WP Series 45Kw 4 pole	45Kw 4 pole	Brook Crompton
MOT13232	WP-DF250SN455	WP Series 55Kw 4 pole	55Kw 4 pole	Brook Crompton
MOT13233	WP-DF250MN475	WP Series 75Kw 4 pole	75Kw 4 pole	Brook Crompton
MOT13234	WP-DF280SN490	WP Series 90Kw 4 pole	90Kw 4 pole	Brook Crompton
MOT13235	WP-DF280MN4110	WP Series 110Kw 4 pole	110Kw 4 pole	Brook Crompton
MOT13236	WP-DF315SN4132	WP Series 132Kw 4 pole	132Kw 4 pole	Brook Crompton
MOT13237	WP-DF315MN4150	WP Series 150Kw 4 pole	150Kw 4 pole	Brook Crompton
MOT13238	WP-DF315MP4160	WP Series 160Kw 4 pole	160Kw 4 pole	Brook Crompton
MOT13239	WP-DF315LN4185	WP Series 185Kw 4 pole	185Kw 4 pole	Brook Crompton
MOT13240	WP-DF315LN4200	WP Series 200Kw 4 pole	200Kw 4 pole	Brook Crompton
MOT13241	WP-DF355SG4225	WP Series 225Kw 4 pole	225Kw 4 pole	Brook Crompton
MOT13242	WP-DF355SJ4250	WP Series 250Kw 4 pole	250Kw 4 pole	Brook Crompton
MOT13243	WP-DF355SN4280	WP Series 280Kw 4 pole	280Kw 4 pole	Brook Crompton
MOT13244	WP-DF355MJ4315	WP Series 315Kw 4 pole	315Kw 4 pole	Brook Crompton
MOT13245	WP-DF355MN4355	WP Series 355Kw 4 pole	355Kw 4 pole	Brook Crompton
MOT13246	WP-DF355LN4400	WP Series 400Kw 4 pole	400Kw 4 pole	Brook Crompton
MOT24881	WDA160MB211	W Type 11Kw 2 pole	11Kw 2 pole W Series High Efficiency	Brook Crompton
MOT24882	WDA160MJ215	W Type 15Kw 2 pole	15Kw 2 pole W Series High Efficiency	Brook Crompton
MOT24883	WDA160LR218.5	W Type 18.5Kw 2 pole	18.5Kw 2 pole W Series High Efficiency	Brook Crompton
MOT24884	WDA180ME222	W Type 22Kw 2 pole	22Kw 2 pole W Series High Efficiency	Brook Crompton

<b>Aca Code</b>	<b>Product Code</b>	<b>Product Name</b>	<b>Short Description</b>	<b>Manufacturer</b>
MOT24885	WDA160MJ411	W Type 11Kw 4 pole	11Kw 4 pole W Series High Efficiency	Brook Crompton
MOT24887	WDA180ME418.5	W Type 18.5Kw 4 pole	18.5Kw 4 pole W Series High Efficiency	Brook Crompton
MOT24888	WDA160LR415	W Type 15Kw 4 pole	15Kw 4 pole W Series High Efficiency	Brook Crompton
MOT24889	WDA1180LJ422	W Type 22Kw 4 pole	22Kw 4 pole W Series High Efficiency	Brook Crompton

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5. Part 2 of Schedule 2 to the Principal Order is amended by inserting the following:

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ACA Code	Product Code	Product Name	Short Description	Manufacturer
VSD11296	96764675	0.55 KW Grundfos CUE IP 20 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11297	96754704	0.55 KW Grundfos CUE IP 55 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11299	96754676	0.75 KW Grundfos CUE IP 20 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11300	96754705	0.75 KW Grundfos CUE IP 55 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11386	96754481	1.1 KW Grundfos CUE IP 20 1x200-240V1.1	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11387	96754460	1.1 KW Grundfos CUE IP 20 1x200-240V1100w	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11388	96754677	1.1 KW Grundfos CUE IP 20 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11389	96754706	1.1 KW Grundfos CUE IP 55 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos

ACA Code	Product Code	Product Name	Short Description	Manufacturer
VSD11392	96754502	1.5 KW Grundfos CUE IP 20 1x200-240V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11393	96754461	1.5 KW Grundfos CUE IP 20 1x200-240V1.5	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11394	96754678	1.5 KW Grundfos CUE IP 20 3X380-500V1.5	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11395	96754707	1.5 KW Grundfos CUE IP 55 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11396	96754694	11 KW Grundfos CUE IP 20 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11397	96754723	11 KW Grundfos CUE IP 55 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11398	96754649	110 KW Grundfos CUE IP 21 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11399	96754666	110 KW Grundfos CUE IP 54 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11401	96754651	132 KW Grundfos CUE IP 21 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11402	96754669	132 KW Grundfos CUE IP 54 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11403	96754695	15 KW Grundfos CUE IP 20 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11404	96754724	15 KW Grundfos CUE IP 55 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos

ACA Code	Product Code	Product Name	Short Description	Manufacturer
VSD11406	96754662	160 KW Grundfos CUE IP 21 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11407	96754671	160 KW Grundfos CUE IP 54 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11408	96754696	18.5 KW Grundfos CUE IP 20 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11409	96754725	18.5 KW Grundfos CUE IP 55 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11411	96754503	2.2 KW Grundfos CUE IP 20 1x200-240V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11412	96754472	2.2 KW Grundfos CUE IP 20 1x200-240V2.2	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11413	96754679	2.2 KW Grundfos CUE IP 20 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11414	96754708	2.2 KW Grundfos CUE IP 55 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11417	96754663	200 KW Grundfos CUE IP 21 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11418	96754672	200 KW Grundfos CUE IP 54 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11419	96754697	22 KW Grundfos CUE IP 20 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11420	96754726	22 KW Grundfos CUE IP 55 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos

ACA Code	Product Code	Product Name	Short Description	Manufacturer
VSD11422	96754665	250 KW Grundfos CUE IP 21 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11423	96754673	250 KW Grundfos CUE IP 54 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11424	96754505	3 KW Grundfos CUE IP 20 1x200-240V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11425	96754473	3 KW Grundfos CUE IP 20 1x200-240V3	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11426	96754680	3 KW Grundfos CUE IP 20 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11427	96754709	3 KW Grundfos CUE IP 55 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11569	96754698	30 KW Grundfos CUE IP 20 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11570	96754727	30 KW Grundfos CUE IP 55 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11571	96754699	37 KW Grundfos CUE IP 20 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11572	96754728	37 KW Grundfos CUE IP 55 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11573	96754506	4 KW Grundfos CUE IP 20 1x200-240V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11574	96754474	4 KW Grundfos CUE IP 20 1x200-240V4000	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos

ACA Code	Product Code	Product Name	Short Description	Manufacturer
VSD11575	96754681	4 KW Grundfos CUE IP 20 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11576	96754710	4 KW Grundfos CUE IP 55 3X380-500V4000	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11577	96754700	45 KW Grundfos CUE IP 20 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11578	96754729	45 KW Grundfos CUE IP 55 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11579	96754475	5.5 KW Grundfos CUE IP 20 1x200-240V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11580	96754507	5.5 KW Grundfos CUE IP 20 1x200-240V5500	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11581	96754692	5.5 KW Grundfos CUE IP 20 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11582	96754711	5.5 KW Grundfos CUE IP 55 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11584	96754701	55 KW Grundfos CUE IP 20 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11585	96754730	55 KW Grundfos CUE IP 55 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11586	96754476	7.5 KW Grundfos CUE IP 20 1x200-240V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11587	96754509	7.5 KW Grundfos CUE IP 20 1x200-240V7500	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos

ACA Code	Product Code	Product Name	Short Description	Manufacturer
VSD11588	96754693	7.5 KW Grundfos CUE IP 20 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11589	96754722	7.5 KW Grundfos CUE IP 55 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11591	96754702	75 KW Grundfos CUE IP 20 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11592	96754731	75 KW Grundfos CUE IP 55 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11593	96754703	90 KW Grundfos CUE IP 20 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11594	96754732	90 KW Grundfos CUE IP 55 3X380-500V	The Grundfos CUE are a range of frequency convertors designed for use with the Grundfos Pump Range	Grundfos
VSD11960	VFD002E21A	DELTA VFD002E21A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11961	VFD004E21A	DELTA VFD004E21A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11962	VFD007E21A	DELTA VFD007E21A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11963	VFD015E21A	DELTA VFD015E21A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11964	VFD022E21A	DELTA VFD022E21A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11965	VFD004E43A	DELTA VFD004E43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11966	VFD007E43A	DELTA VFD007E43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11967	VFD015E43A	DELTA VFD015E43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11968	VFD022E43A	DELTA VFD022E43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11969	VFD037E43A	DELTA VFD037E43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11970	VFD055E43A	DELTA VFD055E43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11971	VFD075E43A	DELTA VFD075E43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11972	VFD110E43A	DELTA VFD110E43A	Variable Speed AC Inverter — Vector+PID	DELTA

ACA Code	Product Code	Product Name	Short Description	Manufacturer
VSD11973	VFD007F43A	DELTA VFD007F43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11974	VFD015F43A	DELTA VFD015F43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11975	VFD022F43A	DELTA VFD022F43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11976	VFD037F43A	DELTA VFD037F43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11977	VFD055F43A	DELTA VFD055F43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11978	VFD075F43A	DELTA VFD075F43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11979	VFD110F43A	DELTA VFD110F43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11980	VFD150F43A	DELTA VFD150F43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11981	VFD185F43A	DELTA VFD185F43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11982	VFD220F43A	DELTA VFD220F43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11983	VFD300F43A	DELTA VFD300F43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11984	VFD370F43A	DELTA VFD370F43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11985	VFD450F43A	DELTA VFD450F43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11986	VFD550F43A	DELTA VFD550F43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11987	VFD750F43A	DELTA VFD750F43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11988	VFD900F43A	DELTA VFD900F43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11989	VFD1100F43A	DELTA VFD1100F43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11990	VFD1320F43A	DELTA VFD1320F43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11991	VFD1600F43A	DELTA VFD1600F43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11992	VFD1850F43A	DELTA VFD1850F43A	Variable Speed AC Inverter — Vector+PID	DELTA
VSD11993	VFD2200F43A	DELTA VFD2200F43A	Variable Speed AC Inverter — Vector+PID	DELTA

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD12613	CIMR-E7Z20P41A	CIMR-E7Z20P41A	Inverter drive, 0.4kW, 1.8A, 200VAC, 3-phase	Omron
VSD12614	CIMR-E7Z40P41	CIMR-E7Z40P41	Inverter drive, 0.4kW, 1.8A, 415VAC, 3-phase	Omron
VSD12615	CIMR-E7Z40P71	CIMR-E7Z40P71	Inverter drive, 0.75kW, 2.1A, 415VAC, 3-phase	Omron
VSD12616	CIMR-E7Z41P51	CIMR-E7Z41P51	Inverter drive, 1.5kW, 3.7A, 415VAC, 3-phase	Omron

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD12617	CIMR-E7Z42P21	CIMR-E7Z42P21	Inverter drive, 2.2kW, 5.3A, 415VAC, 3-phase	Omron
VSD12618	CIMR-E7Z43P71	CIMR-E7Z43P71	Inverter drive, 3.7kW, 7.6A, 415VAC, 3-phase	Omron
VSD12619	CIMR-E7Z44P01	CIMR-E7Z44P01	Inverter drive, 4.0kW, 8.7A, 415VAC, 3-phase	Omron
VSD12620	CIMR-E7Z45P51	CIMR-E7Z45P51	Inverter drive, 5.5kW, 12.5A, 415VAC, 3-phase	Omron
VSD12621	CIMR-E7Z47P51	CIMR-E7Z47P51	Inverter drive, 7.5kW, 17A, 415VAC, 3-phase	Omron
VSD12622	CIMR-E7Z-47P52A	CIMR-E7Z-47P52A	Inverter drive, IP54 version, 7.5KW, 17A, 415vac, 3-phase	Omron
VSD12623	CIMR-E7Z40111	CIMR-E7Z40111	Inverter drive, 11kW, 24A, 415VAC, 3-phase	Omron
VSD12624	CIMR-E7Z-40112A	CIMR-E7Z-40112A	Inverter drive, IP54 version, 11KW, 24A, 415vac, 3-phase	Omron
VSD12625	CIMR-E7Z40151	CIMR-E7Z40151	Inverter drive, 15kW, 31A, 415VAC, 3-phase	Omron
VSD12626	CIMR-E7Z-40152A	CIMR-E7Z-40152A	Inverter drive, IP54 version, 15KW, 31A, 415vac, 3-phase	Omron
VSD12627	CIMR-E7Z40181	CIMR-E7Z40181	Inverter drive, 18.5kW, 39A, 415VAC, 3-phase	Omron
VSD12628	CIMR-E7Z-40182A	CIMR-E7Z-40182A	Inverter drive, IP54 version, 18.5KW, 39A, 415vac, 3-phase	Omron
VSD12629	CIMR-E7Z40220	CIMR-E7Z40220	Inverter drive, 22kW, 45A, 415VAC, 3-phase	Omron
VSD12630	CIMR-E7Z-40222A	CIMR-E7Z-40222A	Inverter drive, IP54 version, 22KW, 45A, 415vac, 3-phase	Omron
VSD12631	CIMR-E7Z40300	CIMR-E7Z40300	Inverter drive, 30kW, 60A, 415VAC, 3-phase	Omron
VSD12632	CIMR-E7Z-40302A	CIMR-E7Z-40302A	Inverter drive, IP54 version, 30KW, 60A, 415vac, 3-phase	Omron
VSD12633	CIMR-E7Z40370	CIMR-E7Z40370	Inverter drive, 37kW, 75A, 415VAC, 3-phase	Omron
VSD12634	CIMR-E7Z-40372A	CIMR-E7Z-40372A	Inverter drive, IP54 version, 37KW, 75A, 415vac, 3-phase	Omron
VSD12635	CIMR-E7Z40450	CIMR-E7Z40450	Inverter drive, 45kW, 91A, 415VAC, 3-phase	Omron
VSD12636	CIMR-E7Z-40452A	CIMR-E7Z-40452A	Inverter drive, IP54 version, 45KW, 91A, 415vac, 3-phase	Omron
VSD12637	CIMR-E7Z40550	CIMR-E7Z40550	Inverter drive, 55kW, 112A, 415VAC, 3-phase	Omron
VSD12638	CIMR-E7Z-40552A	CIMR-E7Z-40552A	Inverter drive, IP54 version, 55KW, 112A, 415vac, 3-phase	Omron

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD12639	CIMR-E7Z40750	CIMR-E7Z40750	Inverter drive, 75kW, 150A, 415VAC, 3-phase	Omron
VSD12640	CIMR-E7Z40900	CIMR-E7Z40900	Inverter drive, 90kW, 180A, 415VAC, 3-phase	Omron
VSD12641	CIMR-E7Z41100	CIMR-E7Z41100	Inverter drive, 110kW, 216A, 415VAC, 3-phase	Omron
VSD12642	CIMR-E7Z41320	CIMR-E7Z41320	Inverter drive, 132kW, 260A, 415VAC, 3-phase	Omron
VSD12643	CIMR-E7Z41600	CIMR-E7Z41600	Inverter drive, 160kW, 304A, 415VAC, 3-phase	Omron
VSD12644	CIMR-E7Z41850	CIMR-E7Z41850	Inverter drive, 180kW, 370A, 415VAC, 3-phase	Omron
VSD12645	CIMR-E7Z42200	CIMR-E7Z42200	Inverter drive, 220kW, 506A, 415VAC, 3-phase	Omron
VSD12646	CIMR-E7Z43000	CIMR-E7Z43000	Inverter drive, 300kW, 675A, 415VAC, 3-phase	Omron
VSD13691	SVXF07A1-2A1B1	SVX9000 General Purpose Drives	SVX9000 General Purpose Drives IP21 208-240V single phase and 3 phase	Eaton Electric B.V.
VSD13692	SVX001A1-2A1B1	SVX9000 General Purpose Drives SVX001A1-2A1B1	SVX9000 General Purpose Drives IP21 208-240V single phase and 3 phase	Eaton Electric B.V.
VSD13693	SVXF15A1-2A1B1	SVX9000 General Purpose Drives SVXF15A1-2A1B1	SVX9000 General Purpose Drives IP21 208-240V single phase and 3 phase	Eaton Electric B.V.
VSD13694	SVX002A1-2A1B1	SVX9000 General Purpose Drives SVX002A1-2A1B1	SVX9000 General Purpose Drives IP21 208-240V single phase and 3 phase	Eaton Electric B.V.
VSD13695	SVX003A1-2A1B1	SVX9000 General Purpose Drives SVX003A1-2A1B1	SVX9000 General Purpose Drives IP21 208-240V single phase and 3 phase	Eaton Electric B.V.
VSD13696	SVX004A1-2A1B1	SVX9000 General Purpose Drives SVX004A1-2A1B1	SVX9000 General Purpose Drives IP21 208-240V single phase and 3 phase	Eaton Electric B.V.
VSD13697	SVX005A1-2A1B1	SVX9000 General Purpose Drives SVX005A1-2A1B1	SVX9000 General Purpose Drives IP21 208-240V single phase and 3 phase	Eaton Electric B.V.
VSD13698	SVX007A1-2A1B1	SVX9000 General Purpose Drives SVX007A1-2A1B1	SVX9000 General Purpose Drives IP21 208-240V single phase and 3 phase	Eaton Electric B.V.
VSD13699	SVX010A1-2A1B1	SVX9000 General Purpose Drives SVX010A1-2A1B1	SVX9000 General Purpose Drives IP21 208-240V	Eaton Electric B.V.
VSD13700	SVX015A1-2A1B1	SVX9000 General Purpose Drives SVX015A1-2A1B1	SVX9000 General Purpose Drives IP21 208-240V	Eaton Electric B.V.
VSD13701	SVX020A1-2A1N1	SVX9000 General Purpose Drives	SVX9000 General Purpose Drives IP21 208-	Eaton Electric B.V.

Aca Code	Product Code	Product Name	Short Description	Manufacturer
		SVX020A1-2A1N1	240V	
VSD13702	SVX025A1-2A1N1	SVX9000 General Purpose Drives SVX025A1-2A1N1	SVX9000 General Purpose Drives IP21 208-240V	Eaton Electric B.V.
VSD13703	SVX030A1-2A1N1	SVX9000 General Purpose Drives SVX030A1-2A1N1	SVX9000 General Purpose Drives IP21 208-240V	Eaton Electric B.V.
VSD13704	SVX040A1-2A1N1	SVX9000 General Purpose Drives SVX040A1-2A1N1	SVX9000 General Purpose Drives IP21 208-240V	Eaton Electric B.V.
VSD13705	SVX050A1-2A1N1	SVX9000 General Purpose Drives SVX050A1-2A1N1	SVX9000 General Purpose Drives IP21 208-240V	Eaton Electric B.V.
VSD13706	SVX060A1-2A1N1	SVX9000 General Purpose Drives SVX060A1-2A1N1	SVX9000 General Purpose Drives IP21 208-240V	Eaton Electric B.V.
VSD13707	SVX075A1-2A1N1	SVX9000 General Purpose Drives SVX075A1-2A1N1	SVX9000 General Purpose Drives IP21 208-240V	Eaton Electric B.V.
VSD13708	SVX100A1-2A1N1	SVX9000 General Purpose Drives SVX100A1-2A1N1	SVX9000 General Purpose Drives IP21 208-240V	Eaton Electric B.V.
VSD13709	SVXF07A2-2A1B1	SVX9000 General Purpose Drives SVXF07A2-2A1B1	SVX9000 General Purpose Drives IP54 208-240V	Eaton Electric B.V.
VSD13710	SVX001A2-2A1B1	SVX9000 General Purpose Drives SVX001A2-2A1B1	SVX9000 General Purpose Drives IP54 208-240V	Eaton Electric B.V.
VSD13711	SVXF15A2-2A1B1	SVX9000 General Purpose Drives SVXF15A2-2A1B1	SVX9000 General Purpose Drives IP54 208-240V	Eaton Electric B.V.
VSD13712	SVX002A2-2A1B1	SVX9000 General Purpose Drives SVX002A2-2A1B1	SVX9000 General Purpose Drives IP54 208-240V	Eaton Electric B.V.
VSD13713	SVX003A2-2A1B1	SVX9000 General Purpose Drives SVX003A2-2A1B1	SVX9000 General Purpose Drives IP54 208-240V	Eaton Electric B.V.
VSD13714	SVX004A2-2A1B1	SVX9000 General Purpose Drives SVX004A2-2A1B1	SVX9000 General Purpose Drives IP54 208-240V	Eaton Electric B.V.
VSD13715	SVX005A2-2A1B1	SVX9000 General Purpose Drives SVX005A2-2A1B1	SVX9000 General Purpose Drives IP54 208-240V	Eaton Electric B.V.
VSD13716	SVX007A2-2A1B1	SVX9000 General Purpose Drives SVX007A2-2A1B1	SVX9000 General Purpose Drives IP54 208-240V	Eaton Electric B.V.
VSD13717	SVX010A2-2A1B1	SVX9000 General Purpose Drives SVX010A2-2A1B1	SVX9000 General Purpose Drives IP54 208-240V	Eaton Electric B.V.
VSD13718	SVX015A2-2A1B1	SVX9000 General Purpose Drives SVX015A2-2A1B1	SVX9000 General Purpose Drives IP54 208-240V	Eaton Electric B.V.
VSD13719	SVX020A2-2A1N1	SVX9000 General Purpose Drives SVX020A2-2A1N1	SVX9000 General Purpose Drives IP54 208-240V	Eaton Electric B.V.

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD13720	SVX025A2-2A1N1	SVX9000 General Purpose Drives SVX025A2-2A1N1	SVX9000 General Purpose Drives IP54 208-240V	Eaton Electric B.V.
VSD13721	SVX030A2-2A1N1	SVX9000 General Purpose Drives SVX030A2-2A1N1	SVX9000 General Purpose Drives IP54 208-240V	Eaton Electric B.V.
VSD13722	SVX040A2-2A1N1	SVX9000 General Purpose Drives SVX040A2-2A1N1	SVX9000 General Purpose Drives IP54 208-240V	Eaton Electric B.V.
VSD13723	SVX050A2-2A1N1	SVX9000 General Purpose Drives SVX050A2-2A1N1	SVX9000 General Purpose Drives IP54 208-240V	Eaton Electric B.V.
VSD13724	SVX060A2-2A1N1	SVX9000 General Purpose Drives SVX060A2-2A1N1	SVX9000 General Purpose Drives IP54 208-240V	Eaton Electric B.V.
VSD13725	SVX075A2-2A1N1	SVX9000 General Purpose Drives SVX075A2-2A1N1	SVX9000 General Purpose Drives IP54 208-240V	Eaton Electric B.V.
VSD13726	SVX100A2-2A1N1	SVX9000 General Purpose Drives SVX100A2-2A1N1	SVX9000 General Purpose Drives IP54 208-240V	Eaton Electric B.V.
VSD13727	SVX001A1-4A1B1	SVX9000 General Purpose Drives SVX001A1-4A1B1	SVX9000 General Purpose Drives IP21 380-500V	Eaton Electric B.V.
VSD13728	SVXF15A1-4A1B1	SVX9000 General Purpose Drives SVXF15A1-4A1B1	SVX9000 General Purpose Drives IP21 380-500V	Eaton Electric B.V.
VSD13729	SVX002A1-4A1B1	SVX9000 General Purpose Drives SVX002A1-4A1B1	SVX9000 General Purpose Drives IP21 380-500V	Eaton Electric B.V.
VSD13730	SVX003A1-4A1B1	SVX9000 General Purpose Drives SVX003A1-4A1B1	SVX9000 General Purpose Drives IP21 380-500V	Eaton Electric B.V.
VSD13731	SVX005A1-4A1B1	SVX9000 General Purpose Drives SVX005A1-4A1B1	SVX9000 General Purpose Drives IP21 380-500V	Eaton Electric B.V.
VSD13732	SVX006A1-4A1B1	SVX9000 General Purpose Drives SVX006A1-4A1B1	SVX9000 General Purpose Drives IP21 380-500V	Eaton Electric B.V.
VSD13733	SVX007A1-4A1B1	SVX9000 General Purpose Drives SVX007A1-4A1B1	SVX9000 General Purpose Drives IP21 380-500V	Eaton Electric B.V.
VSD13734	SVX010A1-4A1B1	SVX9000 General Purpose Drives SVX010A1-4A1B1	SVX9000 General Purpose Drives IP21 380-500V	Eaton Electric B.V.
VSD13735	SVX015A1-4A1B1	SVX9000 General Purpose Drives SVX015A1-4A1B1	SVX9000 General Purpose Drives IP21 380-500V	Eaton Electric B.V.
VSD13736	SVX020A1-4A1B1	SVX9000 General Purpose Drives SVX020A1-4A1B1	SVX9000 General Purpose Drives IP21 380-500V	Eaton Electric B.V.
VSD13737	SVX025A1-4A1B1	SVX9000 General Purpose Drives SVX025A1-4A1B1	SVX9000 General Purpose Drives IP21 380-500V	Eaton Electric B.V.
VSD13738	SVX030A1-4A1B1	SVX9000 General Purpose Drives SVX030A1-4A1B1	SVX9000 General Purpose Drives IP21 380-500V	Eaton Electric B.V.

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD13739	SVX040A1-4A1N1	SVX9000 General Purpose Drives SVX040A1-4A1N1	SVX9000 General Purpose Drives IP21 380-500V	Eaton Electric B.V.
VSD13740	SVX050A1-4A1N1	SVX9000 General Purpose Drives SVX050A1-4A1N1	SVX9000 General Purpose Drives IP21 380-500V	Eaton Electric B.V.
VSD13741	SVX060A1-4A1N1	SVX9000 General Purpose Drives SVX060A1-4A1N1	SVX9000 General Purpose Drives IP21 380-500V	Eaton Electric B.V.
VSD13742	SVX075A1-4A1N1	SVX9000 General Purpose Drives SVX075A1-4A1N1	SVX9000 General Purpose Drives IP21 380-500V	Eaton Electric B.V.
VSD13743	SVX100A1-4A1N1	SVX9000 General Purpose Drives SVX100A1-4A1N1	SVX9000 General Purpose Drives IP21 380-500V	Eaton Electric B.V.
VSD13744	SVX125A1-4A1N1	SVX9000 General Purpose Drives SVX125A1-4A1N1	SVX9000 General Purpose Drives IP21 380-500V	Eaton Electric B.V.
VSD13745	SVX150A1-4A1N1	SVX9000 General Purpose Drives SVX150A1-4A1N1	SVX9000 General Purpose Drives IP21 380-500V	Eaton Electric B.V.
VSD13746	SVX200A1-4A1N1	SVX9000 General Purpose Drives SVX200A1-4A1N1	SVX9000 General Purpose Drives IP21 380-500V	Eaton Electric B.V.
VSD13747	SVX001A2-4A1B1	SVX9000 General Purpose Drives SVX001A2-4A1B1	SVX9000 General Purpose Drives IP54 380-500V	Eaton Electric B.V.
VSD13748	SVXF15A2-4A1B1	SVX9000 General Purpose Drives SVXF15A2-4A1B1	SVX9000 General Purpose Drives IP54 380-500V	Eaton Electric B.V.
VSD13749	SVX002A2-4A1B1	SVX9000 General Purpose Drives SVX002A2-4A1B1	SVX9000 General Purpose Drives IP54 380-500V	Eaton Electric B.V.
VSD13750	SVX003A2-4A1B1	SVX9000 General Purpose Drives SVX003A2-4A1B1	SVX9000 General Purpose Drives IP54 380-500V	Eaton Electric B.V.
VSD13751	SVX005A2-4A1B1	SVX9000 General Purpose Drives SVX005A2-4A1B1	SVX9000 General Purpose Drives IP54 380-500V	Eaton Electric B.V.
VSD13752	SVX006A2-4A1B1	SVX9000 General Purpose Drives SVX006A2-4A1B1	SVX9000 General Purpose Drives IP54 380-500V	Eaton Electric B.V.
VSD13753	SVX007A2-4A1B1	SVX9000 General Purpose Drives SVX007A2-4A1B1	SVX9000 General Purpose Drives IP54 380-500V	Eaton Electric B.V.
VSD13754	SVX010A2-4A1B1	SVX9000 General Purpose Drives SVX010A2-4A1B1	SVX9000 General Purpose Drives IP54 380-500V	Eaton Electric B.V.
VSD13755	SVX015A2-4A1B1	SVX9000 General Purpose Drives SVX015A2-4A1B1	SVX9000 General Purpose Drives IP54 380-500V	Eaton Electric B.V.
VSD13756	SVX020A2-4A1B1	SVX9000 General Purpose Drives SVX020A2-4A1B1	SVX9000 General Purpose Drives IP54 380-500V	Eaton Electric B.V.
VSD13757	SVX025A2-4A1B1	SVX9000 General Purpose Drives SVX025A2-4A1B1	SVX9000 General Purpose Drives IP54 380-500V	Eaton Electric B.V.

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD13758	SVX030A2-4A1B1	SVX9000 General Purpose Drives SVX030A2-4A1B1	SVX9000 General Purpose Drives IP54 380-500V	Eaton Electric B.V.
VSD13759	SVX040A2-4A1N1	SVX9000 General Purpose Drives SVX040A2-4A1N1	SVX9000 General Purpose Drives IP54 380-500V	Eaton Electric B.V.
VSD13760	SVX050A2-4A1N1	SVX9000 General Purpose Drives SVX050A2-4A1N1	SVX9000 General Purpose Drives IP54 380-500V	Eaton Electric B.V.
VSD13761	SVX060A2-4A1N1	SVX9000 General Purpose Drives SVX060A2-4A1N1	SVX9000 General Purpose Drives IP54 380-500V	Eaton Electric B.V.
VSD13762	SVX075A2-4A1N1	SVX9000 General Purpose Drives SVX075A2-4A1N1	SVX9000 General Purpose Drives IP54 380-500V	Eaton Electric B.V.
VSD13763	SVX100A2-4A1N1	SVX9000 General Purpose Drives SVX100A2-4A1N1	SVX9000 General Purpose Drives IP54 380-500V	Eaton Electric B.V.
VSD13764	SVX125A2-4A1N1	SVX9000 General Purpose Drives SVX125A2-4A1N1	SVX9000 General Purpose Drives IP54 380-500V	Eaton Electric B.V.
VSD13765	SVX150A2-4A1N1	SVX9000 General Purpose Drives SVX150A2-4A1N1	SVX9000 General Purpose Drives IP54 380-500V	Eaton Electric B.V.
VSD13766	SVX200A2-4A1N1	SVX9000 General Purpose Drives SVX200A2-4A1N1	SVX9000 General Purpose Drives IP54 380-500V	Eaton Electric B.V.
VSD13767	SVX002A1-5A4N1	SVX9000 General Purpose Drives SVX002A1-5A4N1	SVX9000 General Purpose Drives IP21 525-690V	Eaton Electric B.V.
VSD13768	SVX003A1-5A4N1	SVX9000 General Purpose Drives SVX003A1-5A4N1	SVX9000 General Purpose Drives IP21 525-690V	Eaton Electric B.V.
VSD13769	SVX004A1-5A4N1	SVX9000 General Purpose Drives SVX004A1-5A4N1	SVX9000 General Purpose Drives IP21 525-690V	Eaton Electric B.V.
VSD13770	SVX005A1-5A4N1	SVX9000 General Purpose Drives SVX005A1-5A4N1	SVX9000 General Purpose Drives IP21 525-690V	Eaton Electric B.V.
VSD13771	SVX007A1-5A4N1	SVX9000 General Purpose Drives SVX007A1-5A4N1	SVX9000 General Purpose Drives IP21 525-690V	Eaton Electric B.V.
VSD13772	SVX010A1-5A4N1	SVX9000 General Purpose Drives SVX010A1-5A4N1	SVX9000 General Purpose Drives IP21 525-690V	Eaton Electric B.V.
VSD13773	SVX015A1-5A4N1	SVX9000 General Purpose Drives SVX015A1-5A4N1	SVX9000 General Purpose Drives IP21 525-690V	Eaton Electric B.V.
VSD13774	SVX020A1-5A4N1	SVX9000 General Purpose Drives SVX020A1-5A4N1	SVX9000 General Purpose Drives IP21 525-690V	Eaton Electric B.V.
VSD13775	SVX025A1-5A4N1	SVX9000 General Purpose Drives SVX025A1-5A4N1	SVX9000 General Purpose Drives IP21 525-690V	Eaton Electric B.V.

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD13776	SVX030A1-5A4N1	SVX9000 General Purpose Drives SVX030A1-5A4N1	SVX9000 General Purpose Drives IP21 525-690V	Eaton Electric B.V.
VSD13777	SVX040A1-5A4N1	SVX9000 General Purpose Drives SVX040A1-5A4N1	SVX9000 General Purpose Drives IP21 525-690V	Eaton Electric B.V.
VSD13778	SVX050A1-5A4N1	SVX9000 General Purpose Drives SVX050A1-5A4N1	SVX9000 General Purpose Drives IP21 525-690V	Eaton Electric B.V.
VSD13779	SVX060A1-5A4N1	SVX9000 General Purpose Drives SVX060A1-5A4N1	SVX9000 General Purpose Drives IP21 525-690V	Eaton Electric B.V.
VSD13780	SVX075A1-5A4N1	SVX9000 General Purpose Drives SVX075A1-5A4N1	SVX9000 General Purpose Drives IP21 525-690V	Eaton Electric B.V.
VSD13781	SVX100A1-5A4N1	SVX9000 General Purpose Drives SVX100A1-5A4N1	SVX9000 General Purpose Drives IP21 525-690V	Eaton Electric B.V.
VSD13782	SVX125A1-5A4N1	SVX9000 General Purpose Drives SVX125A1-5A4N1	SVX9000 General Purpose Drives IP21 525-690V	Eaton Electric B.V.
VSD13783	SVX150A1-5A4N1	SVX9000 General Purpose Drives SVX150A1-5A4N1	SVX9000 General Purpose Drives IP21 525-690V	Eaton Electric B.V.
VSD13784	SVX175A1-5A4N1	SVX9000 General Purpose Drives SVX175A1-5A4N1	SVX9000 General Purpose Drives IP21 525-690V	Eaton Electric B.V.
VSD13785	SVX002A2-5A4N1	SVX9000 General Purpose Drives SVX002A2-5A4N1	SVX9000 General Purpose Drives IP54 525-690V	Eaton Electric B.V.
VSD13786	SVX003A2-5A4N1	SVX9000 General Purpose Drives SVX003A2-5A4N1	SVX9000 General Purpose Drives IP54 525-690V	Eaton Electric B.V.
VSD13787	SVX004A2-5A4N1	SVX9000 General Purpose Drives SVX004A2-5A4N1	SVX9000 General Purpose Drives IP54 525-690V	Eaton Electric B.V.
VSD13788	SVX005A2-5A4N1	SVX9000 General Purpose Drives SVX005A2-5A4N1	SVX9000 General Purpose Drives IP54 525-690V	Eaton Electric B.V.
VSD13789	SVX007A2-5A4N1	SVX9000 General Purpose Drives SVX007A2-5A4N1	SVX9000 General Purpose Drives IP54 525-690V	Eaton Electric B.V.
VSD13790	SVX010A2-5A4N1	SVX9000 General Purpose Drives SVX010A2-5A4N1	SVX9000 General Purpose Drives IP54 525-690V	Eaton Electric B.V.
VSD13791	SVX015A2-5A4N1	SVX9000 General Purpose Drives SVX015A2-5A4N1	SVX9000 General Purpose Drives IP54 525-690V	Eaton Electric B.V.
VSD13792	SVX020A2-5A4N1	SVX9000 General Purpose Drives SVX020A2-5A4N1	SVX9000 General Purpose Drives IP54 525-690V	Eaton Electric B.V.
VSD13793	SVX025A2-5A4N1	SVX9000 General Purpose Drives SVX025A2-5A4N1	SVX9000 General Purpose Drives IP54 525-690V	Eaton Electric B.V.
VSD13794	SVX030A2-5A4N1	SVX9000 General Purpose Drives SVX030A2-5A4N1	SVX9000 General Purpose Drives IP54 525-690V	Eaton Electric B.V.

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD13795	SVX040A2-5A4N1	SVX9000 General Purpose Drives SVX040A2-5A4N1	SVX9000 General Purpose Drives IP54 525-690V	Eaton Electric B.V.
VSD13796	SVX050A2-5A4N1	SVX9000 General Purpose Drives SVX050A2-5A4N1	SVX9000 General Purpose Drives IP54 525-690V	Eaton Electric B.V.
VSD13797	SVX060A2-5A4N1	SVX9000 General Purpose Drives SVX060A2-5A4N1	SVX9000 General Purpose Drives IP54 525-690V	Eaton Electric B.V.
VSD13798	SVX075A2-5A4N1	SVX9000 General Purpose Drives SVX075A2-5A4N1	SVX9000 General Purpose Drives IP54 525-690V	Eaton Electric B.V.
VSD13799	SVX100A2-5A4N1	SVX9000 General Purpose Drives SVX100A2-5A4N1	SVX9000 General Purpose Drives IP54 525-690V	Eaton Electric B.V.
VSD13800	SVX125A2-5A4N1	SVX9000 General Purpose Drives SVX125A2-5A4N1	SVX9000 General Purpose Drives IP54 525-690V	Eaton Electric B.V.
VSD13801	SVX150A2-5A4N1	SVX9000 General Purpose Drives SVX150A2-5A4N1	SVX9000 General Purpose Drives IP54 525-690V	Eaton Electric B.V.
VSD13802	SVX175A2-5A4N1	SVX9000 General Purpose Drives SVX175A2-5A4N1	SVX9000 General Purpose Drives IP54 525-690V	Eaton Electric B.V.
VSD13803	SPXF07A1-2A1B1	SPX9000 High Performance Drives SPXF07A1-2A1B1	SPX9000 High Performance Drives IP21 208-240V	Eaton Electric B.V.
VSD13804	SPX001A1-2A1B1	SPX9000 High Performance Drives SPX001A1-2A1B1	SPX9000 High Performance Drives IP21 208-240V	Eaton Electric B.V.
VSD13805	SPXF15A1-2A1B1	SPX9000 High Performance Drives SPXF15A1-2A1B1	SPX9000 High Performance Drives IP21 208-240V	Eaton Electric B.V.
VSD13806	SPX002A1-2A1B1	SPX9000 High Performance Drives SPX002A1-2A1B1	SPX9000 High Performance Drives IP21 208-240V	Eaton Electric B.V.
VSD13807	SPX003A1-2A1B1	SPX9000 High Performance Drives SPX003A1-2A1B1	SPX9000 High Performance Drives IP21 208-240V	Eaton Electric B.V.
VSD13808	SPX004A1-2A1B1	SPX9000 High Performance Drives SPX004A1-2A1B1	SPX9000 High Performance Drives IP21 208-240V	Eaton Electric B.V.
VSD13809	SPX005A1-2A1B1	SPX9000 High Performance Drives SPX005A1-2A1B1	SPX9000 High Performance Drives IP21 208-240V	Eaton Electric B.V.
VSD13810	SPX007A1-2A1B1	SPX9000 High Performance Drives SPX007A1-2A1B1	SPX9000 High Performance Drives IP21 208-240V	Eaton Electric B.V.
VSD13811	SPX010A1-2A1B1	SPX9000 High Performance Drives SPX010A1-2A1B1	SPX9000 High Performance Drives IP21 208-240V	Eaton Electric B.V.
VSD13812	SPX015A1-2A1B1	SPX9000 High Performance Drives SPX015A1-2A1B1	SPX9000 High Performance Drives IP21 208-240V	Eaton Electric B.V.
VSD13813	SPX020A1-2A1N1	SPX9000 High Performance Drives SPX020A1-2A1N1	SPX9000 High Performance Drives IP21 208-240V	Eaton Electric B.V.

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD13814	SPX025A1-2A1N1	SPX9000 High Performance Drives SPX025A1-2A1N1	SPX9000 High Performance Drives IP21 208-240V	Eaton Electric B.V.
VSD13815	SPX030A1-2A1N1	SPX9000 High Performance Drives SPX030A1-2A1N1	SPX9000 High Performance Drives IP21 208-240V	Eaton Electric B.V.
VSD13816	SPX040A1-2A1N1	SPX9000 High Performance Drives SPX040A1-2A1N1	SPX9000 High Performance Drives IP21 208-240V	Eaton Electric B.V.
VSD13817	SPX050A1-2A1N1	SPX9000 High Performance Drives SPX050A1-2A1N1	SPX9000 High Performance Drives IP21 208-240V	Eaton Electric B.V.
VSD13818	SPX060A1-2A1N1	SPX9000 High Performance Drives SPX060A1-2A1N1	SPX9000 High Performance Drives IP21 208-240V	Eaton Electric B.V.
VSD13819	SPX075A1-2A1N1	SPX9000 High Performance Drives SPX075A1-2A1N1	SPX9000 High Performance Drives IP21 208-240V	Eaton Electric B.V.
VSD13820	SPX100A1-2A1N1	SPX9000 High Performance Drives SPX100A1-2A1N1	SPX9000 High Performance Drives IP21 208-240V	Eaton Electric B.V.
VSD13821	SPXF07A2-2A1B1	SPX9000 High Performance Drives SPXF07A2-2A1B1	SPX9000 High Performance Drives IP54 208-240V	Eaton Electric B.V.
VSD13822	SPX001A2-2A1B1	SPX9000 High Performance Drives SPX001A2-2A1B1	SPX9000 High Performance Drives IP54 208-240V	Eaton Electric B.V.
VSD13823	SPXF15A2-2A1B1	SPX9000 High Performance Drives SPXF15A2-2A1B1	SPX9000 High Performance Drives IP54 208-240V	Eaton Electric B.V.
VSD13826	SPX002A2-2A1B1	SPX9000 High Performance Drives SPX002A2-2A1B1	SPX9000 High Performance Drives IP54 208-240V	Eaton Electric B.V.
VSD13827	SPX003A2-2A1B1	SPX9000 High Performance Drives SPX003A2-2A1B1	SPX9000 High Performance Drives IP54 208-240V	Eaton Electric B.V.
VSD13828	SPX004A2-2A1B1	SPX9000 High Performance Drives SPX004A2-2A1B1	SPX9000 High Performance Drives IP54 208-240V	Eaton Electric B.V.
VSD13829	SPX005A2-2A1B1	SPX9000 High Performance Drives SPX005A2-2A1B1	SPX9000 High Performance Drives IP54 208-240V	Eaton Electric B.V.
VSD13830	SPX007A2-2A1B1	SPX9000 High Performance Drives SPX007A2-2A1B1	SPX9000 High Performance Drives IP54 208-240V	Eaton Electric B.V.
VSD13831	SPX010A2-2A1B1	SPX9000 High Performance Drives SPX010A2-2A1B1	SPX9000 High Performance Drives IP54 208-240V	Eaton Electric B.V.
VSD13832	SPX015A2-2A1B1	SPX9000 High Performance Drives SPX015A2-2A1B1	SPX9000 High Performance Drives IP54 208-240V	Eaton Electric B.V.
VSD13833	SPX020A2-2A1N1	SPX9000 High Performance Drives SPX020A2-2A1N1	SPX9000 High Performance Drives IP54 208-240V	Eaton Electric B.V.

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD13834	SPX025A2-2A1N1	SPX9000 High Performance Drives SPX025A2-2A1N1	SPX9000 High Performance Drives IP54 208-240V	Eaton Electric B.V.
VSD13835	SPX030A2-2A1N1	SPX9000 High Performance Drives SPX030A2-2A1N1	SPX9000 High Performance Drives IP54 208-240V	Eaton Electric B.V.
VSD13836	SPX040A2-2A1N1	SPX9000 High Performance Drives SPX040A2-2A1N1	SPX9000 High Performance Drives IP54 208-240V	Eaton Electric B.V.
VSD13837	SPX050A2-2A1N1	SPX9000 High Performance Drives SPX050A2-2A1N1	SPX9000 High Performance Drives IP54 208-240V	Eaton Electric B.V.
VSD13838	SPX060A2-2A1N1	SPX9000 High Performance Drives SPX060A2-2A1N1	SPX9000 High Performance Drives IP54 208-240V	Eaton Electric B.V.
VSD13839	SPX075A2-2A1N1	SPX9000 High Performance Drives SPX075A2-2A1N1	SPX9000 High Performance Drives IP54 208-240V	Eaton Electric B.V.
VSD13840	SPX100A2-2A1N1	SPX9000 High Performance Drives SPX100A2-2A1N1	SPX9000 High Performance Drives IP54 208-240V	Eaton Electric B.V.
VSD13841	SPX001A1-4A1B1	SPX9000 High Performance Drives SPX001A1-4A1B1	SPX9000 High Performance Drives IP21 380-500V	Eaton Electric B.V.
VSD13842	SPXF15A1-4A1B1	SPX9000 High Performance Drives SPXF15A1-4A1B1	SPX9000 High Performance Drives IP21 380-500V	Eaton Electric B.V.
VSD13843	SPX002A1-4A1B1	SPX9000 High Performance Drives SPX002A1-4A1B1	SPX9000 High Performance Drives IP21 380-500V	Eaton Electric B.V.
VSD13844	SPX003A1-4A1B1	SPX9000 High Performance Drives SPX003A1-4A1B1	SPX9000 High Performance Drives IP21 380-500V	Eaton Electric B.V.
VSD13845	SPX005A1-4A1B1	SPX9000 High Performance Drives SPX005A1-4A1B1	SPX9000 High Performance Drives IP21 380-500V	Eaton Electric B.V.
VSD13846	SPX006A1-4A1B1	SPX9000 High Performance Drives SPX006A1-4A1B1	SPX9000 High Performance Drives IP21 380-500V	Eaton Electric B.V.
VSD13847	SPX007A1-4A1B1	SPX9000 High Performance Drives SPX007A1-4A1B1	SPX9000 High Performance Drives IP21 380-500V	Eaton Electric B.V.
VSD13848	SPX010A1-4A1B1	SPX9000 High Performance Drives SPX010A1-4A1B1	SPX9000 High Performance Drives IP21 380-500V	Eaton Electric B.V.
VSD13849	SPX015A1-4A1B1	SPX9000 High Performance Drives SPX015A1-4A1B1	SPX9000 High Performance Drives IP21 380-500V	Eaton Electric B.V.
VSD13850	SPX020A1-4A1B1	SPX9000 High Performance Drives SPX020A1-4A1B1	SPX9000 High Performance Drives IP21 380-500V	Eaton Electric B.V.
VSD13851	SPX025A1-4A1B1	SPX9000 High Performance Drives SPX025A1-4A1B1	SPX9000 High Performance Drives IP21 380-500V	Eaton Electric B.V.
VSD13852	SPX030A1-4A1B1	SPX9000 High Performance Drives SPX030A1-4A1B1	SPX9000 High Performance Drives IP21 380-500V	Eaton Electric B.V.

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD13853	SPX040A1-4A1N1	SPX9000 High Performance Drives SPX040A1-4A1N1	SPX9000 High Performance Drives IP21 380-500V	Eaton Electric B.V.
VSD13854	SPX050A1-4A1N1	SPX9000 High Performance Drives SPX050A1-4A1N1	SPX9000 High Performance Drives IP21 380-500V	Eaton Electric B.V.
VSD13855	SPX060A1-4A1N1	SPX9000 High Performance Drives SPX060A1-4A1N1	SPX9000 High Performance Drives IP21 380-500V	Eaton Electric B.V.
VSD13856	SPX075A1-4A1N1	SPX9000 High Performance Drives SPX075A1-4A1N1	SPX9000 High Performance Drives IP21 380-500V	Eaton Electric B.V.
VSD13857	SPX100A1-4A1N1	SPX9000 High Performance Drives SPX100A1-4A1N1	SPX9000 High Performance Drives IP21 380-500V	Eaton Electric B.V.
VSD13858	SPX125A1-4A1N1	SPX9000 High Performance Drives SPX125A1-4A1N1	SPX9000 High Performance Drives IP21 380-500V	Eaton Electric B.V.
VSD13859	SPX150A1-4A1N1	SPX9000 High Performance Drives SPX150A1-4A1N1	SPX9000 High Performance Drives IP21 380-500V	Eaton Electric B.V.
VSD13860	SPX200A1-4A1N1	SPX9000 High Performance Drives SPX200A1-4A1N1	SPX9000 High Performance Drives IP21 380-500V	Eaton Electric B.V.
VSD13861	SPX001A2-4A1B1	SPX9000 High Performance Drives SPX001A2-4A1B1	SPX9000 High Performance Drives IP54 380-500V	Eaton Electric B.V.
VSD13862	SPXF15A2-4A1B1	SPX9000 High Performance Drives SPXF15A2-4A1B1	SPX9000 High Performance Drives IP54 380-500V	Eaton Electric B.V.
VSD13863	SPX002A2-4A1B1	SPX9000 High Performance Drives SPX002A2-4A1B1	SPX9000 High Performance Drives IP54 380-500V	Eaton Electric B.V.
VSD13864	SPX003A2-4A1B1	SPX9000 High Performance Drives SPX003A2-4A1B1	SPX9000 High Performance Drives IP54 380-500V	Eaton Electric B.V.
VSD13865	SPX005A2-4A1B1	SPX9000 High Performance Drives SPX005A2-4A1B1	SPX9000 High Performance Drives IP54 380-500V	Eaton Electric B.V.
VSD13866	SPX006A2-4A1B1	SPX9000 High Performance Drives SPX006A2-4A1B1	SPX9000 High Performance Drives IP54 380-500V	Eaton Electric B.V.
VSD13867	SPX007A2-4A1B1	SPX9000 High Performance Drives SPX007A2-4A1B1	SPX9000 High Performance Drives IP54 380-500V	Eaton Electric B.V.
VSD13868	SPX010A2-4A1B1	SPX9000 High Performance Drives SPX010A2-4A1B1	SPX9000 High Performance Drives IP54 380-500V	Eaton Electric B.V.
VSD13869	SPX015A2-4A1B1	SPX9000 High Performance Drives SPX015A2-4A1B1	SPX9000 High Performance Drives IP54 380-500V	Eaton Electric B.V.
VSD13870	SPX020A2-4A1B1	SPX9000 High Performance Drives SPX020A2-4A1B1	SPX9000 High Performance Drives IP54 380-500V	Eaton Electric B.V.
VSD13871	SPX025A2-4A1B1	SPX9000 High Performance Drives SPX025A2-4A1B1	SPX9000 High Performance Drives IP54 380-500V	Eaton Electric B.V.

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD13872	SPX030A2-4A1B1	SPX9000 High Performance Drives SPX030A2-4A1B1	SPX9000 High Performance Drives IP54 380-500V	Eaton Electric B.V.
VSD13873	SPX040A2-4A1N1	SPX9000 High Performance Drives SPX040A2-4A1N1	SPX9000 High Performance Drives IP54 380-500V	Eaton Electric B.V.
VSD13874	SPX050A2-4A1N1	SPX9000 High Performance Drives SPX050A2-4A1N1	SPX9000 High Performance Drives IP54 380-500V	Eaton Electric B.V.
VSD13875	SPX060A2-4A1N1	SPX9000 High Performance Drives SPX060A2-4A1N1	SPX9000 High Performance Drives IP54 380-500V	Eaton Electric B.V.
VSD13876	SPX075A2-4A1N1	SPX9000 High Performance Drives SPX075A2-4A1N1	SPX9000 High Performance Drives IP54 380-500V	Eaton Electric B.V.
VSD13877	SPX100A2-4A1N1	SPX9000 High Performance Drives SPX100A2-4A1N1	SPX9000 High Performance Drives IP54 380-500V	Eaton Electric B.V.
VSD13878	SPX125A2-4A1N1	SPX9000 High Performance Drives SPX125A2-4A1N1	SPX9000 High Performance Drives IP54 380-500V	Eaton Electric B.V.
VSD13879	SPX150A2-4A1N1	SPX9000 High Performance Drives SPX150A2-4A1N1	SPX9000 High Performance Drives IP54 380-500V	Eaton Electric B.V.
VSD13880	SPX200A2-4A1N1	SPX9000 High Performance Drives SPX200A2-4A1N1	SPX9000 High Performance Drives IP54 380-500V	Eaton Electric B.V.
VSD13881	SPX250A0-4A2N1	SPX9000 High Performance Drives SPX250A0-4A2N1	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13882	SPX300A0-4A2N1	SPX9000 High Performance Drives SPX300A0-4A2N1	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13883	SPX350A0-4A2N1	SPX9000 High Performance Drives SPX350A0-4A2N1	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13884	SPX400A0-4A2N1	SPX9000 High Performance Drives SPX400A0-4A2N1	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13885	SPX500A0-4A2N1	SPX9000 High Performance Drives SPX500A0-4A2N1	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD13886	SPX550A0-4A2N1	SPX9000 High Performance Drives SPX550A0-4A2N1	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13887	SPX600A0-4A2N1	SPX9000 High Performance Drives SPX600A0-4A2N1	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13888	SPX650A0-4A2N1	SPX9000 High Performance Drives SPX650A0-4A2N1	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13889	SPX700A0-4A2N1	SPX9000 High Performance Drives SPX700A0-4A2N1	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13890	SPX800A0-4A2N1	SPX9000 High Performance Drives SPX800A0-4A2N1	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13891	SPX900A0-4A2N1	SPX9000 High Performance Drives SPX900A0-4A2N1	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13892	SPXH10A0-4A2N1	SPX9000 High Performance Drives SPXH10A0-4A2N1	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13893	SPXH12A0-4A2N1	SPX9000 High Performance Drives SPXH12A0-4A2N1	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13894	SPXH16A0-4A2N1	SPX9000 High Performance Drives SPXH16A0-4A2N1	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13895	SPX250A0-4A2N1U	SPX9000 High Performance Drives SPX250A0-4A2N1U	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 12-pulse supply	Eaton Electric B.V.
VSD13896	SPX300A0-4A2N1U	SPX9000 High Performance Drives SPX300A0-4A2N1U	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 12-pulse supply	Eaton Electric B.V.

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD13897	SPX350A0-4A2N1U	SPX9000 High Performance Drives SPX350A0-4A2N1U	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 12-pulse supply	Eaton Electric B.V.
VSD13898	SPX400A0-4A2N1V	SPX9000 High Performance Drives SPX400A0-4A2N1V	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 12-pulse supply	Eaton Electric B.V.
VSD13899	SPX500A0-4A2N1V	SPX9000 High Performance Drives SPX500A0-4A2N1V	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 12-pulse supply	Eaton Electric B.V.
VSD13900	SPX550A0-4A2N1V	SPX9000 High Performance Drives SPX550A0-4A2N1V	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 12-pulse supply	Eaton Electric B.V.
VSD13901	SPX600A0-4A2N1U	SPX9000 High Performance Drives SPX600A0-4A2N1U	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 12-pulse supply	Eaton Electric B.V.
VSD13902	SPX650A0-4A2N1U	SPX9000 High Performance Drives SPX650A0-4A2N1U	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 12-pulse supply	Eaton Electric B.V.
VSD13903	SPX700A0-4A2N1U	SPX9000 High Performance Drives SPX700A0-4A2N1U	SPX9000 High Performance Drives SPX 380-500 V, IP00, EMC-level N, AIR COOLED FC MODULE, 12-pulse supply	Eaton Electric B.V.
VSD13904	SPX250A1-4A4N1	SPX9000 High Performance Drives SPX250A1-4A4N1	SPX9000 High Performance Drives SPX 380-500 V, IP21, EMC-level L, AIR COOLED STAND-ALONE FC	Eaton Electric B.V.
VSD13905	SPX300A1-4A4N1	SPX9000 High Performance Drives SPX300A1-4A4N1	SPX9000 High Performance Drives SPX 380-500 V, IP21, EMC-level L, AIR COOLED STAND-ALONE FC	Eaton Electric B.V.
VSD13906	SPX350A1-4A4N1	SPX9000 High Performance Drives SPX350A1-4A4N1	SPX9000 High Performance Drives SPX 380-500 V, IP21, EMC-level L, AIR COOLED STAND-ALONE FC	Eaton Electric B.V.

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD13907	SPX400A1-4A4N1	SPX9000 High Performance Drives SPX400A1-4A4N1	SPX9000 High Performance Drives SPX 380-500 V, IP21, EMC-level L, AIR COOLED STAND-ALONE FC	Eaton Electric B.V.
VSD13908	SPX500A1-4A4N1	SPX9000 High Performance Drives SPX500A1-4A4N1	SPX9000 High Performance Drives SPX 380-500 V, IP21, EMC-level L, AIR COOLED STAND-ALONE FC	Eaton Electric B.V.
VSD13909	SPX550A1-4A4N1	SPX9000 High Performance Drives SPX550A1-4A4N1	SPX9000 High Performance Drives SPX 380-500 V, IP21, EMC-level L, AIR COOLED STAND-ALONE FC	Eaton Electric B.V.
VSD13910	SPX250A2-4A4N1	SPX9000 High Performance Drives SPX250A2-4A4N1	SPX9000 High Performance Drives SPX 380-500 V, IP54, EMC-level L, AIR COOLED STAND-ALONE FC	Eaton Electric B.V.
VSD13911	SPX300A2-4A4N1	SPX9000 High Performance Drives SPX300A2-4A4N1	SPX9000 High Performance Drives SPX 380-500 V, IP54, EMC-level L, AIR COOLED STAND-ALONE FC	Eaton Electric B.V.
VSD13912	SPX350A2-4A4N1	SPX9000 High Performance Drives SPX350A2-4A4N1	SPX9000 High Performance Drives SPX 380-500 V, IP54, EMC-level L, AIR COOLED STAND-ALONE FC	Eaton Electric B.V.
VSD13913	SPX002A1-5A4N1	SPX9000 High Performance Drives SPX002A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13914	SPX003A1-5A4N1	SPX9000 High Performance Drives SPX003A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13915	SPX004A1-5A4N1	SPX9000 High Performance Drives SPX004A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13916	SPX005A1-5A4N1	SPX9000 High Performance Drives SPX005A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13917	SPX007A1-5A4N1	SPX9000 High Performance Drives SPX007A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13918	SPX010A1-5A4N1	SPX9000 High Performance Drives SPX010A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD13919	SPX015A1-5A4N1	SPX9000 High Performance Drives SPX015A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13920	SPX020A1-5A4N1	SPX9000 High Performance Drives SPX020A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13921	SPX025A1-5A4N1	SPX9000 High Performance Drives SPX025A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13922	SPX030A1-5A4N1	SPX9000 High Performance Drives SPX030A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13923	SPX040A1-5A4N1	SPX9000 High Performance Drives SPX040A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13924	SPX050A1-5A4N1	SPX9000 High Performance Drives SPX050A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13925	SPX060A1-5A4N1	SPX9000 High Performance Drives SPX060A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13926	SPX075A1-5A4N1	SPX9000 High Performance Drives SPX075A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13927	SPX100A1-5A4N1	SPX9000 High Performance Drives SPX100A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13928	SPX125A1-5A4N1	SPX9000 High Performance Drives SPX125A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13929	SPX150A1-5A4N1	SPX9000 High Performance Drives SPX150A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13930	SPX175A1-5A4N1	SPX9000 High Performance Drives SPX175A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD13931	SPX200A1-5A4N1	SPX9000 High Performance Drives SPX200A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13932	SPX250A1-5A4N1	SPX9000 High Performance Drives SPX250A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13933	SPX300A1-5A4N1	SPX9000 High Performance Drives SPX300A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13934	SPX400A1-5A4N1	SPX9000 High Performance Drives SPX400A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13935	SPX450A1-5A4N1	SPX9000 High Performance Drives SPX450A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13936	SPX500A1-5A4N1	SPX9000 High Performance Drives SPX500A1-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP21, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13937	SPX002A2-5A4N1	SPX9000 High Performance Drives SPX002A2-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP54, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13938	SPX003A2-5A4N1	SPX9000 High Performance Drives SPX003A2-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP54, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13939	SPX004A2-5A4N1	SPX9000 High Performance Drives SPX004A2-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP54, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13940	SPX005A2-5A4N1	SPX9000 High Performance Drives SPX005A2-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP54, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13941	SPX007A2-5A4N1	SPX9000 High Performance Drives SPX007A2-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP54, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13942	SPX010A2-5A4N1	SPX9000 High Performance Drives SPX010A2-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP54, EMC-level L, AIR COOLED FC	Eaton Electric B.V.

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD13943	SPX015A2-5A4N1	SPX9000 High Performance Drives SPX015A2-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP54, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13944	SPX020A2-5A4N1	SPX9000 High Performance Drives SPX020A2-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP54, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13945	SPX025A2-5A4N1	SPX9000 High Performance Drives SPX025A2-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP54, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13946	SPX030A2-5A4N1	SPX9000 High Performance Drives SPX030A2-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP54, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13947	SPX040A2-5A4N1	SPX9000 High Performance Drives SPX040A2-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP54, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13948	SPX050A2-5A4N1	SPX9000 High Performance Drives SPX050A2-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP54, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13949	SPX060A2-5A4N1	SPX9000 High Performance Drives SPX060A2-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP54, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13950	SPX075A2-5A4N1	SPX9000 High Performance Drives SPX075A2-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP54, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13951	SPX100A2-5A4N1	SPX9000 High Performance Drives SPX100A2-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP54, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13952	SPX125A2-5A4N1	SPX9000 High Performance Drives SPX125A2-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP54, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13953	SPX150A2-5A4N1	SPX9000 High Performance Drives SPX150A2-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP54, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13954	SPX175A2-5A4N1	SPX9000 High Performance Drives SPX175A2-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP54, EMC-level L, AIR COOLED FC	Eaton Electric B.V.

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD13955	SPX200A2-5A4N1	SPX9000 High Performance Drives SPX200A2-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP54, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13956	SPX250A2-5A4N1	SPX9000 High Performance Drives SPX250A2-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP54, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13957	SPX300A2-5A4N1	SPX9000 High Performance Drives SPX300A2-5A4N1	SPX9000 High Performance Drives SPX 525-690 V, IP54, EMC-level L, AIR COOLED FC	Eaton Electric B.V.
VSD13958	SPX200A0-5A2N1	SPX9000 High Performance Drives SPX200A0-5A2N1	SPX9000 High Performance Drives SPX 525-690 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13959	SPX250A0-5A2N1	SPX9000 High Performance Drives SPX250A0-5A2N1	SPX9000 High Performance Drives SPX 525-690 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13960	SPX300A0-5A2N1	SPX9000 High Performance Drives SPX300A0-5A2N1	SPX9000 High Performance Drives SPX 525-690 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13961	SPX400A0-5A2N1	SPX9000 High Performance Drives SPX400A0-5A2N1	SPX9000 High Performance Drives SPX 525-690 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13962	SPX450A0-5A2N1	SPX9000 High Performance Drives SPX450A0-5A2N1	SPX9000 High Performance Drives SPX 525-690 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13963	SPX500A0-5A2N1	SPX9000 High Performance Drives SPX500A0-5A2N1	SPX9000 High Performance Drives SPX 525-690 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13964	SPX550A0-5A2N1	SPX9000 High Performance Drives SPX550A0-5A2N1	SPX9000 High Performance Drives SPX 525-690 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13965	SPX600A0-5A2N1	SPX9000 High Performance Drives SPX600A0-5A2N1	SPX9000 High Performance Drives SPX 525-690 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD13966	SPX700A0-5A2N1	SPX9000 High Performance Drives SPX700A0-5A2N1	SPX9000 High Performance Drives SPX 525-690 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13967	SPX800A0-5A2N1	SPX9000 High Performance Drives SPX800A0-5A2N1	SPX9000 High Performance Drives SPX 525-690 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13968	SPX900A0-5A2N1	SPX9000 High Performance Drives SPX900A0-5A2N1	SPX9000 High Performance Drives SPX 525-690 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13969	SPXH10A0-5A2N1	SPX9000 High Performance Drives SPXH10A0-5A2N1	SPX9000 High Performance Drives SPX 525-690 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13970	SPXH13A0-5A2N1	SPX9000 High Performance Drives SPXH13A0-5A2N1	SPX9000 High Performance Drives SPX 525-690 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13971	SPXH15A0-5A2N1	SPX9000 High Performance Drives SPXH15A0-5A2N1	SPX9000 High Performance Drives SPX 525-690 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD13972	SPXH20A0-5A2N1	SPX9000 High Performance Drives SPXH20A0-5A2N1	SPX9000 High Performance Drives SPX 525-690 V, IP00, EMC-level N, AIR COOLED FC MODULE, 6-pulse supply	Eaton Electric B.V.
VSD26330	09.F5.C1B-2B0A	Combivert F5 1.5-C1B2B0A	Rating 1.5kW 7A, 1/3PH 230V	KEB Ltd
VSD26331	10.F5.C1B-2A0A	Combivert F5 2.2-C1B2A0A	Rating 2.2kW 10A, 1/3PH 230V	KEB Ltd
VSD26332	12.F5.C1D-1A0A	Combivert F5 4.0-C1D1A0A	Rating 4kW 16.5A, 3PH 230V	KEB Ltd
VSD26333	13.F5.C1E-160A	Combivert F5 5.5-C1E-160A	Rating 5.5kW 24A, 3PH 230V	KEB Ltd
VSD26334	14.F5.C1E-150A	Combivert F5 7.5-C1E-150A	Rating 7.5kW 33A, 3PH 230V	KEB Ltd
VSD26335	15.F5.C1G-190F	Combivert F5 11-C1G-190F	Rating 11kW 48A, 3PH 230V	KEB Ltd
VSD26336	16.F5.C1H-1B0F	Combivert F5 15-C1H-1B0F	Rating 15kW 66A, 3PH 230V	KEB Ltd
VSD26337	09.F5.C1B-3A0A	Combivert F5 1.5-C1B-3A0A	Rating 1.5kW 4.1A, 3PH 400V	KEB Ltd

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD26338	10.F5.C1B-3A0A	Combivert F5 2.2-C1B-3A0A	Rating 2.2kW 5.8A, 3PH 400V	KEB Ltd
VSD26339	12.F5.C1B-350A	Combivert F5 1.5-C1B-350A	Rating 4kW 9.5A, 3PH 400V	KEB Ltd
VSD26340	12.F5.C1D-3A0A	Combivert F5 4-C1D-3A0A	Rating 4kW 9.5A, 3PH 400V	KEB Ltd
VSD26341	13.F5.C1D-390A	Combivert F5 5.5-C1D-390A	Rating 5.5kW 12A, 3PH 400V	KEB Ltd
VSD26342	14.F5.C1D-380A	Combivert F5 7.5-C1D-380A	Rating 7.5kW 16.5A, 3PH 400V	KEB Ltd
VSD26343	12.F5.C1E-3B0A	Combivert F5 4-C1E-3B0A	Rating 4kW 9.5A, 3PH 400V	KEB Ltd
VSD26344	13.F5.C1E-3B0A	Combivert F5 5.5-C1E-3B0A	Rating 5.5kW 12A, 3PH 400V	KEB Ltd
VSD26345	14.F5.C1E-3A0A	Combivert F5 7.5-C1E-3A0A	Rating 7.5kW 16.5A, 3PH 400V	KEB Ltd
VSD26346	15.F5.C1E-350A	Combivert F5 11-C1E-350A	Rating 11kW 24A, 3PH 400V	KEB Ltd
VSD26347	16.F5.C1E-340A	Combivert F5 15-C1E-340A	Rating 15kW 33A, 3PH 400V	KEB Ltd
VSD26348	18.F5.C1G-340F	Combivert F5 22-C1G-340F	Rating 22kW 50A, 3PH 400V	KEB Ltd
VSD26349	17.F5.C0H-360F	Combivert F5 18.5-C0H-360F	Rating 18.5kW 42A, 3PH 400V	KEB Ltd
VSD26350	18.F5.C0H-360F	Combivert F5 22-C0H-360F	Rating 22kW 50A, 3PH 400V	KEB Ltd
VSD26351	19.F5.C0H-350F	Combivert F5 30-C0H-350F	Rating 30kW 60A, 3PH 400V	KEB Ltd
VSD26352	20.F5.C0H-340F	Combivert F5 37-C0H-340F	Rating 37kW 75A, 3PH 400V	KEB Ltd
VSD26353	19.F5.C0R-960A	Combivert F5 30-C0R-960A	Rating 30kW 60A, 3PH 400V	KEB Ltd
VSD26354	19.F5.C2R-960A	Combivert F5 30-C2R-960A	Rating 30kW 60A, 3PH 400V	KEB Ltd
VSD26355	20.F5.C0R-960A	Combivert F5 37-C0R-960A	Rating 37kW 75A, 3PH 400V	KEB Ltd
VSD26356	20.F5.C2R-960A	Combivert F5 37-C2R-960A	Rating 37kW 75A, 3PH 400V	KEB Ltd
VSD26357	21.F5.C0R-950A	Combivert F5 45-C0R-950A	Rating 45kW 90A, 3PH 400V	KEB Ltd
VSD26358	21.F5.C2R-950A	Combivert F5 45-C2R-950A	Rating 45kW 90A, 3PH 400V	KEB Ltd
VSD26359	22.F5.C0R-950A	Combivert F5 55-C0R-950A	Rating 55kW 115A, 3PH 400V	KEB Ltd
VSD26360	22.F5.C2R-950A	Combivert F5 55-C2R-950A	Rating 55kW 115A, 3PH 400V	KEB Ltd
VSD26361	23.F5.C0R-940A	Combivert F5 75-C0R-940A	Rating 75kW 115A, 3PH 400V	KEB Ltd
VSD26362	23.F5.C2R-940A	Combivert F5 75-C2R-940A	Rating 75kW 150A, 3PH 400V	KEB Ltd
VSD26363	24.F5.C0R-940A	Combivert F5 90-C0R-940A	Rating 90kW 180A, 3PH 400V	KEB Ltd

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD26364	15.F5.C1G-360A	Combivert F5 11-G1G-360A	Rating 11kW 24A, 3PH 400V	KEB Ltd
VSD26365	16.F5.C1G-360A	Combivert F5 16-G1G-360A	Rating 15kW 33A, 3PH 400V	KEB Ltd
VSD26366	17.F5.C1G-350A	Combivert F5 18.5-G1G-350A	Rating 18.5kW 42A, 3PH 400V	KEB Ltd
VSD26367	17.F5.G0H-360F	Combivert F5 18.5-G0H-360F	Rating 18.5kW 42A, 3PH 400V	KEB Ltd
VSD26368	18.F5.G0H-360F	Combivert F5 22-G0H-360F	Rating 22kW 50A, 3PH 400V	KEB Ltd
VSD26369	19.F5.G0H-350F	Combivert F5 30-G0H-350F	Rating 30kW 60A, 3PH 400V	KEB Ltd
VSD26370	20.F5.G0H-340F	Combivert F5 37-G0H-340F	Rating 37kW 75A, 3PH 400V	KEB Ltd
VSD26371	19.F5.G0R-960A	Combivert F5 30-G0R-960A	Rating 30kW 60A, 3PH 400V	KEB Ltd
VSD26372	19.F5.G2R-960A	Combivert F5 30-G2R-960A	Rating 30kW 60A, 3PH 400V	KEB Ltd
VSD26373	20.F5.G0R-960A	Combivert F5 37-G0R-960A	Rating 37kW 75A, 3PH 400V	KEB Ltd
VSD26374	20.F5.G2R-960A	Combivert F5 37-G2R-960A	Rating 37kW 75A, 3PH 400V	KEB Ltd
VSD26375	21.F5.G0R-950A	Combivert F5 45-G0R-950A	Rating 45kW 90A, 3PH 400V	KEB Ltd
VSD26376	21.F5.G2R-950A	Combivert F5 45-G2R-950A	Rating 45kW 90A, 3PH 400V	KEB Ltd
VSD26377	22.F5.G0R-950A	Combivert F5 55-G0R-950A	Rating 55kW 115A, 3PH 400V	KEB Ltd
VSD26378	22.F5.G2R-950A	Combivert F5 55-G2R-950A	Rating 55kW 115A, 3PH 400V	KEB Ltd
VSD26379	23.F5.G0R-940A	Combivert F5 75-G0R-940A	Rating 75kW 115A, 3PH 400V	KEB Ltd
VSD26380	23.F5.G2R-940A	Combivert F5 75-G2R-940A	Rating 75kW 150A, 3PH 400V	KEB Ltd
VSD26381	24.F5.G0R-940A	Combivert F5 90-G0R-940A	Rating 90kW 180A, 3PH 400V	KEB Ltd
VSD26382	25.F5.G0U-910A	Combivert F5 90-G0U-910A	Rating 110kW 210A, 3PH 400V	KEB Ltd
VSD26383	26.F5.G0U-910A	Combivert F5 90-G0U-910	Rating 132kW 250A, 3PH 400V	KEB Ltd
VSD26384	27.F5.G0U-900A	Combivert F5 90-G0U-900A	Rating 160kW 3000A, 3PH 400V	KEB Ltd
VSD26385	28.F5.G0W-900A	Combivert F5 90-G0W-900A	Rating 200kW 3700A, 3PH 400V	KEB Ltd
VSD26386	30.F5.G0W-A00A	Combivert F5 90-G0W-A00A	Rating 315kW 570A, 3PH 400V	KEB Ltd

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6. Part 3 of Schedule 2 to the Principal Order is amended by inserting the following:

ACA Code	Product Code	Product Name	Short Description	Manufacturer
LIG9426	199XX-XXX-XXX	Fagerhult Open Box	Fagerhult Open Box suspended fluorescent luminaire. Direct/Indirect light distribution. With Beta or Lamell Louvres. HF, HF Dim, DALI and DSI options available. Fagerhult e-Sense Actilume and Smartswitch control options available.	Fagerhult
LIG9428	116XX	Fagerhult Tilt	Fagerhult Tilt suspended fluorescent luminaire. Direct/Indirect light distribution. With Lamell louvres. HF, HF Dim, DALI and DSI options available. Fagerhult e-Sense Actilume and Smartswitch control options available.	Fagerhult
LIG9429	26XXX	Fagerhult Notor G2 System	Fagerhult Notor G2 complete luminaire system. Direct/Indirect light distribution options. Suspended/Surface and wall mounted options. Lamell Louvre and opal diffuser options. HF, HF Dim, DALI and DSI options available.	Fagerhult
LIG9432	20150X-XXX	Fagerhult Tove	Fagerhult Tove suspended fluorescent luminaire. Direct/indirect light distribution. Various Louvre and diffuser options. HF, HF Dim and DALI options available.	Fagerhult
LIG9433	2448X-XXX	Fagerhult Indigo Clivus	Fagerhult Indigo Clivus surface mounted fluorescent luminaire. Direct light distribution. Beta louvre. Available with DALI, SwitchDim, DSI and e-Sense actilume options.	Fagerhult
LIG9434	268XX-XXX	Fagerhult Tigrus	Fagerhult Tigris suspended fluorescent luminaire. Direct/indirect light distribution. Beta and Lamell louvres. DALI, switchDIM, DSI and eSense actilum options available.	Fagerhult

ACA Code	Product Code	Product Name	Short Description	Manufacturer
LIG9436	2064XX-XXX	Fagerhult Como	Fagerhult Como fluorescent luminaire. Direct light distribution. Lamell louvre and Opal diffuser options. HF and SwitchDIM/DSI options available.	Fagerhult
LIG9437	2036XX-XXX	Fagerhult Fovea II	Fagerhult Fovea II fluorescent system. Direct/indirect light distribution. Cross blade louvre. HF, HF DIM, Smartswitch/SwitchDIM and DSI options available.	Fagerhult
LIG9439	283XX-XXX	Fagerhult Zora	Fagerhult Zora suspended fluorescent system. Direct/indirect light distribution. Gamma, Beta, Lamell, Terazza and honeycomb louvre options. HF, DALI, SwitchDIM/DSI and eSense actilume control options.	Fagerhult
LIG9440	26XXX-XXX	Fagerhult Ten	Fagerhult Ten fluorescent system. Direct/indirect light distribution. Beta, Terazza and Lamell louvre options. HF, DALI, SwitchDIM/DSI and eSense actilume control options.	Fagerhult
LIG9441	28XXX-XXX	Fagerhult DTI	Fagerhult DTI fluorescent system. Direct/indirect light distribution. Beta, Terazza and Lamell louvre options. HF, DALI, SwitchDIM/DSI and eSense actilume control options.	Fagerhult
LIG9442	208XXX-XXX	Fagerhult Super Tube	Fagerhult Super Tube fluorescent system. Cross blade louvre. HF and HF/DIM options.	Fagerhult
LIG9443	198XX-XXX	Fagerhult Lento	Fagerhult Lento wall mounted fluorescent luminaire. Acrylic lined diffuser. HP, DALI, SwitchDIM and DSI options available.	Fagerhult
LIG9445	17401	Fagerhult Sektor T5	Fagerhult Sektor T5 surface mounted fluorescent luminaire. Lamell louvre. HF, DALI and SwitchDIM/DSI options available.	Fagerhult

ACA Code	Product Code	Product Name	Short Description	Manufacturer
LIG9446	183XX-XX	Fagerhult Excis	Fagerhult Excis fluorescent system. White louvre. HF, DALI and SwitchDIM/DSI options available.	Fagerhult
LIG9447	176XX-XXX	Fagerhult Gondol T5	Fagerhult Gondol surface or recessed fluorescent system. HF, DALI and SwitchDIM/DSI options available.	Fagerhult
LIG9448	108XX	Fagerhult Basic	Fagerhult Basic surface mounted fluorescent system. HF and HFDIM options available.	Fagerhult
LIG10603	1990X1	Fagerhult Orossol	Fagerhult Orosso suspended fluorescent luminaire. Direct/Indirect light distribution. Available with HF or DALI control gear.	Fagerhult
LIG10783	PROFI3 V2	Profi 3 V2	1x80W Surface Luminaire, HF Ballast	Garrabridge
LIG10790	PROFI12 V2	profi 12 V2	1x80W Surface Luminaire, HF Ballast Dimmable	Garrabridge
LIG10858	Task1 V2	Batten1 V2	TSK154	Garrabridge
LIG10859	Task2 V2	Batten2 V2	TSK149	Garrabridge
LIG10860	Task3 V2	Batten3 V2	TSK180	Garrabridge
LIG10863	Task6 V2	Batten6 V2	TSK239	Garrabridge
LIG10864	Task7 V2	Batten7 V2	TSK254	Garrabridge
LIG10866	Task9 V2	Batten9 V2	TSK249	Garrabridge
LIG10867	Task10 V2	Batten10 V2	TSK280	Garrabridge
LIG10888	Blade1 V2	Wall 1 V2	BDE 1X55W Wall Mounted Luminaire, HF Ballast	Garrabridge
LIG10889	Blade2 V2	Wall 2 V2	BDE 1X80W Wall Mounted Luminaire, HF Ballast	Garrabridge
LIG10890	Blade3 V2	Wall 3 V2	BDE 1X55W Wall Mounted Luminaire, HF Ballast Dimmable	Garrabridge
LIG10891	Blade4 V2	Wall 4 V2	BDE 1X80W Wall Mounted Luminaire, HF Ballast Dimmable	Garrabridge
LIG10898	HERALD T52 V2	High Rack2 V2	HERT5 3X49 High Rack Luminaire, HF Ballast	Garrabridge
LIG10900	HERALD T54 V2	High Rack4 V2	HERT5 4X54 High Rack Luminaire, HF Ballast	Garrabridge
LIG10901	HERALD T55 V2	High Rack5 V2	HERT5 4X49 High Rack Luminaire, HF Ballast	Garrabridge
LIG10903	HERALD T57 V2	High Rack7 V2	HERT5 3X54 High Rack Luminaire, HF Ballast Dimmable	Garrabridge

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LIG10904	HERALD T58 V2	High Rack8 V2	HERT5 3X49 High Rack Luminaire, HF Ballast Dimmable	Garrabridge
LIG10906	HERALD T510 V2	High Rack10 V2	HERT5 4X54 High Rack Luminaire, HF Ballast Dimmable	Garrabridge
LIG10907	HERALD T511 V2	High Rack11 V2	HERT5 4X49 High Rack Luminaire, HF Ballast Dimmable	Garrabridge
LIG10920	Lux6 V2	IP65 W'Proof6 V2	2x35W Surface, Diffuser,HF Ballast	Garrabridge
LIG10921	Lux7 V2	IP65 W'Proof7 V2	2x49W Surface, Diffuser,HF Ballast	Garrabridge
LIG10925	Lux13 V2	IP65 W'Proof13 V2	2x35W Surface, Diffuser,HF Ballast Dimmable	Garrabridge
LIG10926	Lux14 V2	IP65 W'Proof14 V2	2x49W Surface, Diffuser,HF Ballast Dimmable	Garrabridge
LIG10943	PRO SPORT1 V2	Sports 1 V2	PRO 3x49W Surface Sports Hall Luminaire, HF Ballast	Garrabridge
LIG10945	PRO SPORT3 V2	Sports 3 V2	PRO 4x49W Surface Sports Hall Luminaire, HF Ballast	Garrabridge
LIG10946	PRO SPORT4 V2	Sports 4 V2	PRO 4x80W Surface Sports Hall Luminaire, HF Ballast	Garrabridge
LIG10947	PRO SPORT5 V2	Sports 5 V2	PRO 3x49W Surface Sports Hall Luminaire, HF Ballast Dimmable	Garrabridge
LIG10949	PRO SPORT7 V2	Sports 7 V2	PRO 4x49W Surface Sports Hall Luminaire, HF Ballast Dimmable	Garrabridge
LIG10950	PRO SPORT8 V2	Sports 8 V2	PRO 4x80W Surface Sports Hall Luminaire, HF Ballast Dimmable	Garrabridge
LIG11025	Futurix6 V2	IP65 W'Proof21 V2	2x35W Surface, Diffuser,HF Ballast	Garrabridge
LIG11026	Futurix7 V2	IP65 W'Proof22 V2	2x49W Surface, Diffuser,HF Ballast	Garrabridge
LIG11030	Futurix13 V2	IP65 W'Proof28 V2	2x35W Surface, Diffuser,HF Ballast Dimmable	Garrabridge
LIG11031	Futurix14 V2	IP65 W'Proof29 V2	2x49W Surface, Diffuser,HF Ballast Dimmable	Garrabridge
LIG11152	248XX	Fagerhult Indigo Combo Beta 2-cell	Fagerhult Indigo Combo Beta 2-cell recessed 600 x 600 luminaire. Beta Louvre 1 cell. HF, Dali, SwitchDim/DSI, e-Sense Actilume and Smartwitch absense control options.	Fagerhult

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LIG11153	246XX	Fagerhult Indigo Ed2 R1 Perfo	Fagerhult Indigo Ed2 R1 Perfo recessed 600 x 600 luminaire. Perfo Louvre. HF, SwitchDim/DSI control options.	Fagerhult
LIG11154	2464X	Fagerhult Indigo Ed2 R1 Slits	Fagerhult Indigo Ed2 R1 Slits recessed 600 x 600 luminaire. Slits Louvre. HF, SwitchDim/DSI control options.	Fagerhult
LIG11155	25AXX	Fagerhult Multifive Basic Beta	Fagerhult Multifive Basic Beta recessed luminaire. Beta Louvre. HF, Dali, SwitchDim/DSI, e-Sense Actilume and Smartwitch absense control options.	Fagerhult
LIG11156	256XX	Fagerhult Multifive Basic Gamma	Fagerhult Multifive Basic Beta recessed luminaire. Gamma Louvre. HF, Dali, SwitchDim/DSI, e-Sense Actilume and Smartwitch absense control options.	Fagerhult
LIG11157	25BXX	Fagerhult Multifive Basic Terazza	Fagerhult Multifive Basic Gamma recessed luminaire. Terazza Louvre. HF, Dali, SwitchDim/DSI, e-Sense Actilume and Smartwitch absense control options.	Fagerhult
LIG11158	251XX	Fagerhult Multifive Basic Texpo	Fagerhult Multifive Basic Texpo recessed luminaire. Terazza Louvre. HF, Dali, SwitchDim/DSI, e-Sense Actilume and Smartwitch absense control options.	Fagerhult
LIG11159	206AXX	Fagerhult Como 600 Symmetrical	Fagerhult Como 600 recessed luminaire. White Lamelle Louvre. HF, Dali, SwitchDim/DSI control options.	Fagerhult
LIG11160	206XXXX	Fagerhult Como 1200 Symmetrical	Fagerhult Como 1200 recessed luminaire. White Lamelle Louvre. HF, Dali, SwitchDim/DSI control options.	Fagerhult
LIG11161	2063XX	Fagerhult Como 600 Wide Symmetrical	Fagerhult Como 600 Wide recessed luminaire. White Lamelle Louvre. HF, Dali, SwitchDim/DSI control options.	Fagerhult
LIG11162	2006XX	Fagerhult Como 1200 Wide Symmetrical	Fagerhult Como 1200 Wide recessed luminaire. White Lamelle Louvre. HF, Dali, SwitchDim/DSI control options.	Fagerhult
LIG11184	IM098DTFL214	I-Mod	Recessed modular 2x14w HF T5 LOR	Hacel Lighting
LIG11185	IM098DTFL224	I-Mod Solo	Recessed modular 2x24w HF T5 LOR	Hacel Lighting

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LIG11186	IM098DPLL055	I-Mod Solo.	Recessed modular 1x55w HF PLL LOR	Hacel Lighting
LIG11187	IM098DPLL040	I-Mod Solo,	Recessed modular 1x40w HF PLL LOR	Hacel Lighting
LIG11195	WR135E	Westlux Retrolux T5, 35 Watt Adapter	Adapter T5 for Energysaving with linear Fluorescent lamps	Global Energy Management (Europe) Ltd
LIG11196	WR128E	Westlux Retrolux T5, 28 Watt Adapter	Adapter T5 for Energysaving with linear Fluorescent lamps	Global Energy Management (Europe) Ltd
LIG11999	LF654.	Powerlux.	A T5 linear flourecent replacement for Highbays and Lowbays using warm start high frequency ballasts for surface or suspended mounting.	Preslite Ltd
LIG12000	LF455L.	Flo-Bay.	A compact fluorecent lowbay utilising 55 watt compact fluorecent tubes and warm start high frequency ballasts.	Preslite Ltd
LIG12274	LB400M	Starbay	400 watt Industrial Lowbay c/w lamp and safety glass	Preslite Ltd
LIG12275	HB400M	Highbay	400 watt Industrial Highbay c/w lamp and safety glass	Preslite Ltd
LIG12276	HBRB400M	Decorative Highbay	400 watt Decorative Highbay c/w lamp and refractor	Preslite Ltd
LIG12277	LF355	Flo-bay 3	A fluorescent lowbay supplied c/w 55 watt PLL lamps	Preslite Ltd
LIG12278	LF255	Flo-bay 2	A fluorescent lowbay supplied c/w 55 watt PLL lamps	Preslite Ltd
LIG12279	LF455	Flo-bay 4	A fluorescent lowbay supplied c/w 55 watt PLL lamps	Preslite Ltd
LIG12280	Tornado 118 HF	Tornado PC 1x 18w HF	Corrosion resistant luminaire- polycarb. Diffuser	ACEC Distributors
LIG12281	Tornado 136 HF	Tornado PC 1x 36w HF	Corrosion resistant luminaire- polycarb. Diffuser	ACEC Distributors
LIG12282	Tornado 158 HF	Tornado PC 1x 58w HF	Corrosion resistant luminaire- polycarb. Diffuser	ACEC Distributors
LIG12283	Tornado 236 HF	Tornado PC 2 X 36w HF	Corrosion resistant luminaire- polycarb. Diffuser	ACEC Distributors
LIG12284	Tornado 258 HF	Tornado PC 2 X 58w HF	Corrosion resistant luminaire- polycarb. Diffuser	ACEC Distributors

ACA Code	Product Code	Product Name	Short Description	Manufacturer
LIG12285	Tornado136AL HF	Tornado PC AL x 136 HF	corrosion resistant luminaire- polycarb. Diffuser +Aluminium Ref	ACEC Distributors
LIG12286	Tornado 158AL HF	Tornado PC AL x158 HF	corrosion resistant luminaire — polycarb. Diffuser + Aluminium Ref	ACEC Distributors
LIG12287	Tornado 236AL HF	Tornado PC AL x 236 HF	corrosion resistant luminaire — polycarb. Diffuser + Aluminium Ref	ACEC Distributors
LIG12288	Tornado 258 AL HF	Tornado PC AL 2x 58 HF	corrosion resistant luminaire — polycarb. Diffuser + Aluminium Ref	ACEC Distributors
LIG12289	Tornado 128	Tornado PC 1 X 28W + Ref	corrosion resistant luminaire — polycarb. Diffuser	ACEC Distributors
LIG12290	Tornado 135	Tornado PC 1x 35w	corrosion resistant luminaire — polycarb. Diffuser	ACEC Distributors
LIG12291	Tornado 135 AL	Tornado PC 1 X 35W + Ref	corrosion resistant luminaire — polycarb. Diffuser + Aluminium Ref	ACEC Distributors
LIG12292	Tornado 149	Tornado PC 1x 49w	corrosion resistant luminaire — polycarb. Diffuser	ACEC Distributors
LIG12293	Tornado 149 AL	Tornado PC 1 X 49w + Ref	corrosion resistant luminaire — polycarb. Diffuser + Aluminium Ref	ACEC Distributors
LIG12294	Tornado 154	Tornado PC 1x 54w	corrosion resistant luminaire — polycarb. Diffuser	ACEC Distributors
LIG12295	Tornado 154 AL	Tornado PC 1 X 54w + Ref	corrosion resistant luminaire — polycarb. Diffuser + Aluminium Ref	ACEC Distributors
LIG12296	Tornado 180	Tornado PC 1x 80w	corrosion resistant luminaire — polycarb. Diffuser	ACEC Distributors
LIG12297	Tornado 180 AL	Tornado PC 1 X 80w + Ref	corrosion resistant luminaire — polycarb. Diffuser + Aluminium Ref	ACEC Distributors
LIG12298	Tornado 214	Tornado PC 2x 14w	corrosion resistant luminaire — polycarb. Diffuser	ACEC Distributors
LIG12299	Tornado 224	Tornado PC 2x 24w	corrosion resistant luminaire — polycarb. Diffuser	ACEC Distributors
LIG12300	Tornado 228	Tornado PC 2x 28w	corrosion resistant luminaire — polycarb. Diffuser	ACEC Distributors

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LIG12301	Tornado 228 AL	Tornado PC 2x 28w + Ref	corrosion resistant luminaire — polycarb. Diffuser + Aluminium Ref	ACEC Distributors
LIG12302	Tornado 235	Tornado PC 2x 35w	corrosion resistant luminaire — polycarb. Diffuser	ACEC Distributors
LIG12303	Tornado 235 AL	Tornado PC 2x 35w + Ref	corrosion resistant luminaire — polycarb. Diffuser + Aluminium Ref	ACEC Distributors
LIG12304	Tornado 249	Tornado PC 2x 49w	corrosion resistant luminaire — polycarb. Diffuser	ACEC Distributors
LIG12305	Tornado 249 AL	Tornado PC 2x 49w + Ref	corrosion resistant luminaire — polycarb. Diffuser + Aluminium Ref	ACEC Distributors
LIG12306	Tornado 254	Tornado PC 2x 54w	corrosion resistant luminaire — polycarb. Diffuser	ACEC Distributors
LIG12307	Tornado 254 AL	Tornado PC 2x 54w + Ref	corrosion resistant luminaire — polycarb. Diffuser + Aluminium Ref	ACEC Distributors
LIG12308	Tornado 280	Tornado PC 2x 80w	corrosion resistant luminaire — polycarb. Diffuser	ACEC Distributors
LIG12309	Tornado 280 AL	Tornado PC 2x 80w + Ref	corrosion resistant luminaire — polycarb. Diffuser + Aluminium Ref	ACEC Distributors
LIG12310	Tornado 328	Tornado PC 3x 28w	corrosion resistant luminaire — polycarb. Diffuser	ACEC Distributors
LIG12311	Tornado 328 AL	Tornado PC 3x 35w + Ref	corrosion resistant luminaire — polycarb. Diffuser + Aluminium Ref	ACEC Distributors
LIG12312	Tornado 354	Tornado PC 3x 54w	corrosion resistant luminaire — polycarb. Diffuser	ACEC Distributors
LIG12313	Rel PMV ref 414	Relax ParMat V Ref 4x 14w	Recessed 600 X 600 Matt Louved Luminaire	ACEC Distributors
LIG12314	Rel PMV M5 414	Relax ParMat V M5 4x 14w	Recessed 600 X 600 Matt Louved Luminaire	ACEC Distributors
LIG12315	Rel PVM4 414	Relax ParV M4 4X 14w	Recessed 600 X 600 Spec Louved Luminaire	ACEC Distributors
LIG12316	Rel PVM4 424	Relax ParV M4 4X 24w	Recessed 600 X 600 Spec Louved Luminaire	ACEC Distributors
LIG12317	Rel PV M5228	Relax ParMat M5 2 X 28w	Recessed 1200 x 300 Matt Louved Luminaire	ACEC Distributors
LIG12318	Rel PV M5254	Relax ParV M5 2 X 54w	Recessed 1200 x 300 Spec Louved Luminaire	ACEC Distributors
LIG12319	CL ASPAR 258HF	Classic ASPAR 2X 58w HF	Surface 2 x 58w Spec Louved Luminaire	ACEC Distributors

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LIG12320	CL ASPAR 236HF	Classic ASPAR 2X 36w HF	Surface 2 x 36w Spec Louvred Luminaire	ACEC Distributors
LIG12321	CL ASPAR 235	Classic ASPAR 2X 35w	Surface 2 x 35w Spec Louvred Luminaire	ACEC Distributors
LIG12322	CL ASPAR 228	Classic ASPAR 2X 28w	Surface 2 x 28w Spec Louvred Luminaire	ACEC Distributors
LIG12323	CL ASLA 258HF	Classic ASLA 2X 58wHF	Surface 2 x 58w Louvred Luminaire	ACEC Distributors
LIG12324	CL ASLA 236HF	Classic ASLA 2X 36wHF	Surface 2 x 36w Louvred Luminaire	ACEC Distributors
LIG12325	CL ASLA 158HF	Classic ASLA 1X58wHF	Surface 1 x 58w Louvred Luminaire	ACEC Distributors
LIG12326	CL ASLA 136HF	Classic ASLA 1X36WwF	Surface 1 x 36w Louvred Luminaire	ACEC Distributors
LIG12327	Var 254	Vario PARV 2 X 54W	Track System 2 x 54w louvred luminaire	ACEC Distributors
LIG12328	Mod ESO PARV328	Modul ESO PARV M4 3 x28w	Suspended Louvred Luminaire	ACEC Distributors
LIG12329	Mod ESO PARV335	Modul ESO PARV M4 3 x35w	Suspended Louvred Luminaire	ACEC Distributors
LIG12330	Mod DA	Modul DA PARV 2 x54w	Suspended Louvred Luminaire	ACEC Distributors
LIG12331	Mod EXE	Modul EXE PARV 2 x49w	Suspended Louvred Luminaire Dir/Ind	ACEC Distributors
LIG12332	Avavt PARV149	Modul Avant PARV 1 X 49w	Suspended Louvred Luminaire System	ACEC Distributors
LIG12333	Mod KA135	Modul KA 1 X 35w	Suspended Louvred Luminaire System	ACEC Distributors
LIG12334	Mod KA254	Modul KA 2 X 54w	Suspended Louvred Luminaire System	ACEC Distributors
LIG12335	Mod KA 236HF	Modul KA 2 X 36w HF	Suspended Louvred Luminaire System	ACEC Distributors
LIG12336	SUP 454HFD	Supreme 454 HFD	Suspended Energy Efficient High Bay	ACEC Distributors
LIG12337	SUP 454HF	Supreme 454 HF	Suspended Energy Efficient High Bay	ACEC Distributors
LIG12340	SUP 254HFD	Supreme 254 HFD	Suspended Energy Efficient High Bay	ACEC Distributors
LIG12341	SUP 254HF	Supreme 254 HF	Suspended Energy Efficient High Bay	ACEC Distributors
LIG12604	3F49	LINDA	CORROSION PROOF T5	3F filippi
LIG12714	GE-LT306050CTR.	Immersion RV30 Series 6050CTR	Supermarket refrigerator luminaire. 60" centre mullion. The LED is driven by a GE PS1700 Power Supply.	GE Lumination
LIG12715	GE-LT306050EDL.	Immersion RV30 Series 6050EDL	Supermarket refrigerator luminaire. 60" Edge left mullion. The LED is driven by a GE PS1700 Power Supply.	GE Lumination

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LIG12716	GE-LT306050EDR.	Immersion RV30 Series 6050EDR	Supermarket refrigerator luminaire. 60" edge right mullion. The LED is driven by a GE PS1700 Power Supply.	GE Lumination
LIG12717	GE-LT307050CTR.	Immersion RV30 Series 7050CTR	Supermarket refrigerator luminaire. 70" centre mullion. The LED is driven by a GE PS1700 Power Supply.	GE Lumination
LIG12718	GE-LT307050EDL.	Immersion RV30 Series 7050EDL	Supermarket refrigerator luminaire. 70" edge left mullion. The LED is driven by a GE PS1700 Power Supply.	GE Lumination
LIG12719	GE-LT307050EDR.	Immersion RV30 Series 7050EDR	Supermarket refrigerator luminaire. 70" edge right mullion. The LED is driven by a GE PS1700 Power Supply.	GE Lumination
LIG12720	SUP.654.HFD.	Supreme.654.HFD.	Suspended Energy Efficient Fluorescent High Bay with Dual Sensor	ACEC Distributors
LIG12721	SUP.654.HF.	Supreme.654.HF.	Suspended Energy Efficient Fluorescent High Bay	ACEC Distributors
LIG13143	RBS315/2TL80/HF/M4.	Luxonic Aislelux 2x80W (specular).	T5 fluo. luminaire for rack lighting in stores and warehouses, c/w high intensity reflector for mounting heights of >10m. HF,DSI or DALI control gear, with integral controls. IP65 version available.	Luxonic Lighting Plc
LIG13144	RBS315/3TL80/HF/M4.	Luxonic Aislelux 3x80W (specular).	T5 fluo. luminaire for rack lighting in stores and warehouses, c/w high intensity reflector for mounting heights of >10m. HF,DSI or DALI control gear, with integral controls. IP65 version available.	Luxonic Lighting Plc
LIG13145	RBS315/4TL80/HF/M4.	Luxonic Aislelux 4x80W (specular).	T5 fluo. luminaire for rack lighting in stores and warehouses, c/w high intensity reflector for mounting heights of >10m. HF,DSI or DALI control gear, with integral controls. IP65 version available.	Luxonic Lighting Plc
LIG13146	RBS315/2TL80/HF/MM.	Luxonic Aislelux2x80W (micromatt).	T5 fluo. luminaire for rack lighting in stores and warehouses, c/w high intensity reflector for mounting heights of >10m. HF,DSI or DALI control gear, with integral controls. IP65 version available.	Luxonic Lighting Plc

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LIG13147	RBS315/3TL80/HF/MM.	Luxonic Aislelux 3x80W (micromatt).	T5 fluo. luminaire for rack lighting in stores and warehouses, c/w high intensity reflector for mounting heights of >10m. HF,DSI or DALI control gear, with integral controls. IP65 version available.	Luxonic Lighting Plc
LIG13148	MBS315/2TL80/HF/M4.	Luxonic MBS 2x80W.	T5 fluo. luminaire for open industrial/retail applications c/w high intensity reflector for mounting heights of > 10m. HF,DSI or DALI control gear, with integral controls. IP65 version available.	Luxonic Lighting Plc
LIG13149	MBS315/3TL80/HF/M4.	Luxonic MBS 3x80W.	T5 fluo. luminaire for open industrial/retail applications c/w high intensity reflector for mounting heights of > 10m. HF,DSI or DALI control gear, with integral controls. IP65 version available.	Luxonic Lighting Plc
LIG13150	MBS315/4TL80/HF/M4.	Luxonic MBS 4x80W.	T5 fluo. luminaire for open industrial/retail applications c/w high intensity reflector for mounting heights of > 10m. HF,DSI or DALI control gear, with integral controls. IP65 version available.	Luxonic Lighting Plc
LIG13151	BLR66/1TC40/HF/LP.	Luxonic Broadlighter BLR 1x40W.	Recessed modular luminaire c/w high efficiency LG7 compatible microprism diffuser & HF/DSI/DALI control gear. Fits most standard ceilings.	Luxonic Lighting Plc
LIG13152	BLR66/1TC55/HF/LP.	Luxonic Broadlighter 1x55W.	Recessed modular luminaire c/w high efficiency LG7 compatible microprism diffuser & HF/DSI/DALI control gear. Fits most standard ceilings.	Luxonic Lighting Plc
LIG13153	AHH55/1TCL36/HF/WMM.	Luxonic Alterlux Harmony1x36W.	Recessed modular luminaire c/w LG7 compatible direct/indirect louvre/perforated diffuser & HF/DSI/DALI control gear. Fits most standard ceilings.	Luxonic Lighting Plc
LIG13154	AHH55/1BX34/HF/WMM.	Luxonic Alterlux Harmony 1x34W.	Recessed modular luminaire c/w LG7 compatible direct/indirect louvre/perforated diffuser & HF/DSI/DALI control gear. Fits most standard ceilings.	Luxonic Lighting Plc

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LIG13155	AHH55/1TCL40/HF/WMM.	Luxonic Alterlux Harmony 1x40W.	Recessed modular luminaire c/w LG7 compatible direct/indirect louvre/perforated diffuser & HF/DSI/DALI control gear. Fits most standard ceilings.	Luxonic Lighting Plc
LIG13156	AHH55/1TCL55/HF/WMM.	Luxonic Alterlux Harmony 1x55W.	Recessed modular luminaire c/w LG7 compatible direct/indirect louvre/perforated diffuser & HF/DSI/DALI control gear. Fits most standard ceilings.	Luxonic Lighting Plc
LIG13157	AHH55/2TCL36/HF/WMM.	Luxonic Alterlux Harmony 2x36W.	Recessed modular luminaire c/w LG7 compatible direct/indirect louvre/perforated diffuser & HF/DSI/DALI control gear. Fits most standard ceilings.	Luxonic Lighting Plc
LIG13158	AHH55/2TCL40/HF/WMM.	Luxonic Alterlux Harmony 2x40W.	Recessed modular luminaire c/w LG7 compatible direct/indirect louvre/perforated diffuser & HF/DSI/DALI control gear. Fits most standard ceilings.	Luxonic Lighting Plc
LIG13159	AHH55/2TCL55/HF/WMM.	Luxonic Alterlux Harmony 2x55W.	Recessed modular luminaire c/w LG7 compatible direct/indirect louvre/perforated diffuser & HF/DSI/DALI control gear. Fits most standard ceilings.	Luxonic Lighting Plc
LIG13160	BLM312/1TL28/HF/LP.	Luxonic Broadlighter Mono1x28W.	Recessed modular luminaire c/w LG7 compatible prismatic diffuser/ribbed reflector & HF/DSI/DALI control gear. Fits most standard ceilings.	Luxonic Lighting Plc
LIG13161	BLM612/1TL54/HF/LP.	Luxonic Broadlighter Mono 1x54W (wide).	Recessed modular luminaire c/w LG7 compatible prismatic diffuser/ribbed reflector & HF/DSI/DALI control gear. Fits most standard ceilings.	Luxonic Lighting Plc
LIG13162	BLM312/1TL54/HF/LP.	Luxonic Broadlighter Mono 1x54W.	Recessed modular luminaire c/w LG7 compatible prismatic diffuser/ribbed reflector & HF/DSI/DALI control gear. Fits most standard ceilings.	Luxonic Lighting Plc

ACA Code	Product Code	Product Name	Short Description	Manufacturer
LIG13163	BLD66/2TL24/HF/LP.	Luxonic Broadlighter Duo 2x24W.	Recessed modular luminaire c/w LG7 compatible prismatic diffuser/ribbed reflector & HF/DSI/DALI control gear. Fits most standard ceilings.	Luxonic Lighting Plc
LIG13164	BLD66/2TCL40/HF/LP.	Luxonic Broadlighter Duo 2x40W.	Recessed modular luminaire c/w LG7 compatible prismatic diffuser/ribbed reflector & HF/DSI/DALI control gear. Fits most standard ceilings.	Luxonic Lighting Plc

ACA Code	Product Code	Product Name	Short Description	Manufacturer
LIG12602	T150xx	Trust 150W	Compact IP65 luminaire with CDM lamp for industrial use. Useful for cranes, hi-masts, warehouses, workshops, stables, mining equipment.	Prismalence AB
LIG12603	BM250xx	Booster Mast 250W	Powerful IP65 luminaire with CDM lamp for industrial use. Useful for large cranes, hi-masts, workshops.	Prismalence AB
LIG13824	HLB454	Warehouse Lighting	warehouse light 4x54w	Galaxy Components Ltd
LIG13825	HLB654	Warehouse Lighting High Output	warehouse light 6x54w	Galaxy Components Ltd
LIG17387	SW14023	SOLOW XL 4x80w OB	4x80w Open Broad	Thorlux Lighting
LIG17388	SW14026	SOLOW XL 4x80w ON	4x80w Open Narrow	Thorlux Lighting
LIG17389	SW14029	SOLOW XL 4x80w PB	4x80w Poly Broad	Thorlux Lighting
LIG17390	SW14032	SOLOW XL 4x80w PN	4x80w Poly Narrow	Thorlux Lighting
LIG17391	SW14035	SOLOW XL S 4x80w OB	4x80w Open Broad Smart	Thorlux Lighting
LIG17392	SW14038	SOLOW XL S 4x80w ON	4x80w Open Narrow Smart	Thorlux Lighting
LIG17393	SW14041	SOLOW XL S 4x80w PB	4x80w Poly Broad Smart	Thorlux Lighting
LIG17394	SW14044	SOLOW XL S 4x80w PN	4x80w Poly Narrow Smart	Thorlux Lighting
LIG17395	AL14082	A-LINE XL 2x49w A	2x49w Acrylic	Thorlux Lighting
LIG17396	AL14081	A-LINE XL 2x49w P	2x49w Polycarbonate	Thorlux Lighting
LIG17397	AL14084	A-LINE XL S 2x35w A	2x35w Acrylic Smart	Thorlux Lighting

ACA Code	Product Code	Product Name	Short Description	Manufacturer
LIG17398	AL14083	A-LINE XL S 2x35w P	2x35w Polycarbonate Smart	Thorlux Lighting
LIG17399	AL14086	A-LINE XL S 2x49w A	2x49w Acrylic Smart	Thorlux Lighting
LIG17400	AL14085	A-LINE XL S 2x49w P	2x49w Polycarbonate Smart	Thorlux Lighting
LIG24316	PVD01-14W	14W T5 Adapter	Adapter to convert T8 Fluorecent fittings to T5	Deqing Daran Electronics Ltd.
LIG24317	PVD01-21W	21W T5 Adapter	Adapter to convert T8 Fluorecent fittings to T5	Deqing Daran Electronics Ltd.
LIG24330	PVD01-28W	28W T5 Adapter	Adapter to convert T8 Fluorecent fittings to T5	Deqing Daran Electronics Ltd.
LIG24331	PVD01-35W	35W T5 Adapter	Adapter to convert T8 Fluorecent fittings to T5	Deqing Daran Electronics Ltd.
LIG24830	DB114-35	Dimmable ballast 1x14w to 1x35w	Dimmable ballast 1x14w to 1x35w	Galaxy Components Ltd
LIG24831	DB214-35	Dimmable ballast 2x14w to 2x35w	Dimmable ballast 2x14w to 2x35w	Galaxy Components Ltd
LIG24832	DB254-58	Dimmable ballast 2x54w and 2x58w	Dimmable ballast 2x54w and 2x58w	Galaxy Components Ltd
LIG24833	DB149	Dimmable ballast 1x49w	Dimmable ballast 1x49w	Galaxy Components Ltd
LIG24834	DB249	Dimmable ballast 2x49w	Dimmable ballast 2x49w	Galaxy Components Ltd
LIG24835	DB154-58	Dimmable ballast 1x54w and 1x58w	Dimmable ballast 1x54w and 1x58w	Galaxy Components Ltd
LIG24836	DB118-40	Dimmable ballast 1x18w to 1x36w	Dimmable ballast 1x18w to 1x36w	Galaxy Components Ltd
LIG24837	DB218-40	Dimmable ballast 2x18w to 2x36w	Dimmable ballast 2x18w to 2x36w	Galaxy Components Ltd
LIG24838	DB118	Dimmable ballast 1x18w	Dimmable ballast 1x18w	Galaxy Components Ltd
LIG24839	DB218	Dimmable ballast 2x18w	Dimmable ballast 2x18w	Galaxy Components Ltd
LIG24840	RC414C2	4x14w recessed with Cat2 cover	4x14w recessed with Cat2 cover	Galaxy Components Ltd

ACA Code	Product Code	Product Name	Short Description	Manufacturer
LIG24841	RC228C2	2x28w recessed Cat2 grid lamp	2x28w low energy recessed louvre with anti glare louvre	Galaxy Components Ltd
LIG24842	RC254C2	2x54w recessed Cat2 grid lamp	2x54w low energy recessed louvre with anti glare louvre	Galaxy Components Ltd
LIG24843	RC428C2	4x28w recessed Cat2 grid lamp	4x28w low energy recessed louvre with anti glare louvre	Galaxy Components Ltd
LIG24844	RC236C2HF	2x36w recessed Cat2 grid lamp	2x36w low energy recessed louvre with anti glare louvre	Galaxy Components Ltd
LIG24845	RC228	2x28w recessed grid lamp	2x28w low energy recessed louvre with retail cover	Galaxy Components Ltd
LIG24846	RC254	2x54w recessed grid lamp	2x28w low energy recessed louvre with retail cover	Galaxy Components Ltd
LIG24847	RC428	4x28w recessed grid lamp	4x28w low energy recessed louvre with retail cover	Galaxy Components Ltd
LIG24848	RC236PCHF	2x36w recessed with pmma cover	2x36w recessed with pmma cover	Galaxy Components Ltd
LIG24849	RC436PCHF	4x36w recessed with pmma cover	4x36w recessed with pmma cover	Galaxy Components Ltd
LIG24850	HB454	4x54w warehouse light and hooks	4x54w warehouse light and hooks	Galaxy Components Ltd
LIG24851	HB654	6x54w warehouse light and hooks	6x54w warehouse light and hooks	Galaxy Components Ltd
LIG25105	AU-CFD181	AU-CFD181	1x18W PLC recessed downlighter	Aurora Limited
LIG25106	AU-CFD182	AU-CFD182	2x18W PLC recessed downlighter	Aurora Limited
LIG25107	AU-CFD261	AU-CFD261	1x26W PLC recessed downlighter	Aurora Limited
LIG25108	AU-CFD262	AU-CFD262	2x26W PLC recessed downlighter	Aurora Limited
LIG25109	AU-CFD422	AU-CFD422	2x42W TCT recessed downlighter	Aurora Limited
LIG25110	AU-PLR155PL	AU-PLR155PL	Polar 1x55W PL Recessed Module	Aurora Limited
LIG25111	AU-SPC155PL	AU-SPC155PL	Space 1x55W PL Recessed Module	Aurora Limited
LIG25112	AU-FST155PL	AU-FST155PL	Frost 1x55W PL Recessed Module	Aurora Limited
LIG25113	AU-SFX480TCL	AU-SFX480TCL	Superflux 4x80W PL Surface module 600 x 600	Aurora Limited
LIG25114	AU-SFX480TL5	AU-SFX480TL5	Superflux 4x80W T5 Surface module 1200 x 600	Aurora Limited

ACA Code	Product Code	Product Name	Short Description	Manufacturer
LIG25115	AU-SFX380T5WG	AU-SFX380T5WG	Superflux 3x80W T5 Surface module 1200 x 600 c/w wire guard	Aurora Limited
LIG25116	AU-FRT280T5	AU-FRT280T5	Fortis 2 x 80W T5 Surface module 1506 x 418	Aurora Limited
LIG25117	AU-FRT480T5	AU-FRT480T5	Fortis 4 x 80W T5 Surface module 1506 x 418	Aurora Limited
LIG25118	AU-2118NT5FL	AU-2118NT5FL	T5 Electronic Ballast — 1X14W, 1X21W	Aurora Limited
LIG25119	AU-2418NT5FL	AU-2418NT5FL	T5 Electronic Ballast — 1X24W	Aurora Limited
LIG25120	AU-SIS135C	AU-SIS135C	T5 Electronic Ballast — 1X35W	Aurora Limited
LIG25121	AU-SIS154C	AU-SIS154C	T5 Electronic Ballast — 1X54W	Aurora Limited
LIG25122	AU-2128NT5FL	AU-2128NT5FL	T5 Electronic Ballast — 2X14W, 2X21W	Aurora Limited
LIG25123	AU-SI228C	AU-SI228C	T5 Electronic Ballast — 2X28W	Aurora Limited
LIG25124	AU-SI235C	AU-SI235C	T5 Electronic Ballast — 2X35W	Aurora Limited
LIG25125	AU2428NT5FL	AU2428NT5FL	T5 Electronic Ballast — 2X24W	Aurora Limited
LIG25126	AU-SI239C	AU-SI239C	T5 Electronic Ballast — 2X39W	Aurora Limited
LIG25127	AU-SI249C	AU-SI249C	T5 Electronic Ballast — 2x49W	Aurora Limited
LIG25128	AU-SI254C	AU-SI254C	T5 Electronic Ballast — 2x54W	Aurora Limited
LIG25129	AU-1818NT8FL	AU-1818NT8FL	T8 Electronic Ballast — 1X18W	Aurora Limited
LIG25130	AU-1828NT8FL	AU-1828NT8FL	T8 Electronic Ballast — 2X18W	Aurora Limited
LIG25131	AU-1838NT8FL	AU-1838NT8FL	T8 Electronic Ballast — 3X18W	Aurora Limited
LIG25132	AU-1848NT8FL	AU-1848NT8FL	T8 Electronic Ballast — 4X18W	Aurora Limited
LIG25133	AU-4018NT8FL	AU-4018NT8FL	T8 Electronic Ballast — 1X36W, 1X38W, 1X40W	Aurora Limited
LIG25134	AU-4028NT8FL	AU-4028NT8FL	T8 Electronic Ballast — 2X36W, 2X38W, 2X40W	Aurora Limited
LIG25135	AU-4038AT8FL	AU-4038AT8FL	T8 Electronic Ballast — 3X36W, 3X38W, 3X40W	Aurora Limited
LIG25136	AU-4048AT8FL	AU-4048AT8FL	T8 Electronic Ballast — 4X38W, 4X38W, 4X40W	Aurora Limited
LIG25137	AU-5818NT8FL	AU-5818NT8FL	T8 Electronic Ballast — 1X58W	Aurora Limited
LIG25138	AU-4028AT8FL	AU-4028AT8FL	T8 Electronic Ballast — 2X18W, 2X36W, 2X38W, 2X40W	Aurora Limited
LIG25139	AU-5828AT8FL	AU-5828AT8FL	T8 Electronic Ballast — 2X58W	Aurora Limited

ACA Code	Product Code	Product Name	Short Description	Manufacturer
LIG25140	AU-7018AT8FL	AU-7018AT8FL	T8 Electronic Ballast — 1X70W	Aurora Limited
LIG25141	AU-7028AT8FL	AU-7028AT8FL	T8 Electronic Ballast — 2X70W	Aurora Limited
LIG25142	AU-1818NT5PL	AU-1818NT5PL	PL-L Electronic Ballast — 1X13W, 1X18W	Aurora Limited
LIG25143	AU-1828NT5PL	AU-1828NT5PL	PL-L Electronic Ballast — 2X13W, 2X18W	Aurora Limited
LIG25144	AU-2618NT5PL	AU-2618NT5PL	PL-L Electronic Ballast — 1X24W	Aurora Limited
LIG25145	AU-2628NT5PL	AU-2628NT5PL	PL-L Electronic Ballast — 2X24W	Aurora Limited
LIG25146	AU-3618NT5PL	AU-3618NT5PL	PL-L Electronic Ballast- 1X36W	Aurora Limited
LIG25147	AU-SIS158C	AU-SIS158C	PL-L Electronic Ballast — 1X55W	Aurora Limited
LIG25148	AU-SI236C	AU-SI236C	PL-L Electronic Ballast — 2X36W	Aurora Limited
LIG25149	AU-SI258C	AU-SI258C	PL-L Electronic Ballast — 2X55W	Aurora Limited
LIG25150	AU-1319NT5PC	AU-1319NT5PC	PL-C Electronic Ballast — 1X10W, 1X13W	Aurora Limited
LIG25151	AU-1329NT5PC	AU-1329NT5PC	PL-C Electronic Ballast — 2X10W, 2X13W	Aurora Limited
LIG25152	AU-1819NT5PC	AU-1819NT5PC	PL-C Electronic Ballast — 1X18W	Aurora Limited
LIG25153	AU-1829NT5PC	AU-1829NT5PC	PL-C Electronic Ballast — 2X18W	Aurora Limited
LIG25154	AU-2619NT5PC	AU-2619NT5PC	PL-C Electronic Ballast — 1X26W	Aurora Limited
LIG25155	AU-2629NT5PC	AU-2629NT5PC	PL-C Electronic Ballast — 2X26W	Aurora Limited
LIG25156	AU-4219NT5PC	AU-4219NT5PC	PL-T Electronic Ballast — 1X32W, 1X42W	Aurora Limited
LIG25157	AU-4229AT5PC	AU-4229AT5PC	PL-T Electronic Ballast — 2X32W, 2X42W	Aurora Limited
LIG25158	AU-5519AT5FC	AU-5519AT5FC	TL5-C Electronic Ballast — 55W	Aurora Limited
LIG25159	AU-2119NT5DD	AU-2119NT5DD	TC-DD Electronic Ballast — 1X16W, 1X21W	Aurora Limited
LIG25160	AU-2819NT5DD	AU-2819NT5DD	TC-DD Electronic Ballast — 1X28W	Aurora Limited
LIG25161	AU-3819NT5DD	AU-3819NT5DD	TC-DD Electronic Ballast — 1X38W	Aurora Limited
LIG25162	AU-SD118-40	AU-SD118-40	0-10V Dimmable Electronic Ballast — T5 — 1X24W, 1X39W TL5-C — 1X22W, 1X40W T8 — 1X18W, 1X25W, 1X36W, 1X30W PL-F — 1X18W, 1X24W, 1X36W PL-L 1X18W, 1X24W, 1X36W, 1X40W	Aurora Limited

ACA Code	Product Code	Product Name	Short Description	Manufacturer
LIG25163	AU-SD114-35	AU-SD114-35	0-10V Dimmable Electronic Ballast — T5 — 1x14W, 1X21W, 1X28W, 1X35W	Aurora Limited
LIG25164	AU-SD149	AU-SD149	0-10V Dimmable Electronic Ballast — T5 — 1x49W	Aurora Limited
LIG25165	AU-SD154-58	AU-SD154-58	0-10V Dimmable Electronic Ballast — T5 — 1X54W T8 — 1X58W PL-L — 1x55W	Aurora Limited
LIG25166	AU-SD180	AU-SD180	0-10V Dimmable Electronic Ballast — T5 — 1x80W PL-L — 1x55W	Aurora Limited
LIG25167	AU-SD224-40	AU-SD224-40	0-10V Dimmable Electronic Ballast — T5 — 2X24W, 2X39W TL5-C — 2X22W, 2X40W T8 — 2X30W, 2X36W PL-F — 2x24W, 2x36W PL-L — 2x24W, 2x36W, 2x40W	Aurora Limited
LIG25168	AU-SD214-35	AU-SD214-35	0-10V Dimmable Electronic Ballast — T5 — 2X14W, 2X21W, 2X28W, 2X35W	Aurora Limited
LIG25169	AU-SD249	AU-SD249	0-10V Dimmable Electronic Ballast — T5 — 2X49W	Aurora Limited
LIG25170	AU-SD254-58	AU-SD254-58	0-10V Dimmable Electronic Ballast — T5 — 2X54W T8 — 2X58W PL-L — 2x55W	Aurora Limited
LIG25171	AU-TD118-42	AU-TD118-42	0-10V Dimmable Electronic Ballast — TL5-C — 1X22W, 1X32W, 1X40W PL-C — 1x26W PL-T — 1x18W, 1x26W, 1x32W, 1x42W PL-L — 1x36W, 1x40W	Aurora Limited
LIG25172	AU-TD155	AU-TD155	0-10V Dimmable Electronic Ballast — TL5-C — 1X55W PL-L — 1x55W	Aurora Limited
LIG25173	AU-TD218-42	AU-TD218-42	0-10V Dimmable Electronic Ballast — TL5-C — 2X22W, 2X32W, 2X40W PL-C — 2x26W PL-T — 2x18W, 2x26W, 2x32W, 2x42W PL-L — 2x36W, 2x40W	Aurora Limited
LIG25174	AU-SI254	AU-SI254	Electronic Ballast — T5 — 2x54W	Aurora Limited
LIG25175	AU-TC126-42	AU-TC126-42	Electronic Ballast — T5 1x24W, 1x39W TL5-C — 1x22W, 1x40W T8 — 1x18W, 1x25W, 1x30W, 1x36W PL-C 1x26W, 2x26W PL-T — 1x26W, 2x26W, 1x32W, 1x42W PL-F — 1x24W, 2x24W PL-L — 1x18W, 2x18W, 1x36W, 1x40W	Aurora Limited
LIG25176	AU-TC154-58	AU-TC154-58	Electronic Ballast — T5 — 1x54W T8 — 1x58W	Aurora Limited
LIG25177	AU-TC226-42	AU-TC226-42	Electronic Ballast — T5 — 2x24W, 2x39W TL5-C — 2x22W, 2x40W T8 — 2x36W	Aurora Limited

ACA Code	Product Code	Product Name	Short Description	Manufacturer
LIG25178	AU-SIS114-35	AU-SIS114-35	Electronic Ballast — T5 — 1x14W, 1x21W, 1x28W	Aurora Limited
LIG25179	AU-SIS118-40	AU-SIS118-40	Electronic Ballast — T8 — 1x25W	Aurora Limited
LIG25180	AU-SIS149	AU-SIS149	Electronic Ballast — T5 — 1x49W	Aurora Limited
LIG25181	AU-SIS154-58	AU-SIS154-58	Electronic Ballast — T5 — 1x54W	Aurora Limited
LIG25182	AU-SIS170	AU-SIS170	Electronic Ballast — T8 — 1x70W	Aurora Limited
LIG25183	AU-SIS180	AU-SIS180	Electronic Ballast — T5 — 80W PL-L — 1x55W	Aurora Limited
LIG25184	AU-SI214-35	AU-SI214-35	Electronic Ballast — T5 — 2x14W, 2x21W, 2x28W, 2x35W	Aurora Limited
LIG25185	AU-SI218-40	AU-SI218-40	Electronic Ballast — T5 — 2x24W, 2x39W T8 — 2x18W, 2x25W, 2x30W, 2x36W PL-F — 2x24W, 2x36W PL-L — 2x18W, 2x24W, 2x36W, 2x40W	Aurora Limited
LIG25186	AU-SI249	AU-SI249	Electronic Ballast — T5 — 2x49W	Aurora Limited
LIG25187	AU-SI254-58	AU-SI254-58	Electronic Ballast — T5 — 2x54W T8 — 2x58W PL-L — 2x55W	Aurora Limited
LIG25188	AU-SI270	AU-SI270	Electronic Ballast — T8 — 2x70W	Aurora Limited
LIG25189	AU-SI280	AU-SI280	Electronic Ballast — T5 — 2x80W PL-L — 2X80W, 2X55W	Aurora Limited
LIG25190	AU-TC113	AU-TC113	Electronic Ballast — PL-C — 1x10W, 1x13W, 2x10W, 2x13W PL-T — 1x13W, 2x13W	Aurora Limited
LIG25191	AU-TC118	AU-TC118	Electronic Ballast — PL-C 1x18W, 2x18W PL-T — 1x18W, 2x18W	Aurora Limited

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7. Part 3 of Schedule 2 to the Principal Order is amended by deleting the following:

“

<b>ACA Code</b>	<b>Product Code</b>	<b>Product Name</b>	<b>Short Description</b>	<b>Manufacturer</b>
LIG10628	HFL-8030N-060602-H2 V2	60cm T8 LED Tube	Fluorescent Replacement T8 LED Tube	ATG Electronics
LIG10629	HFL-8060N-120602-H2 V2	120cm T8 LED Tube	Fluorescent Replacement T8 LED Tube	ATG Electronics
LIG10630	HFL-8088N-150602-H2 V2	150cm T8 LED Tube	Fluorescent Replacement T8 LED Tube	ATG Electronics

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8. Part 4 of Schedule 2 to the Principal Order is amended by inserting the following:

“

ACA Code	Product Code	Product Name	Short Description	Manufacturer
LCO10627	DLExxx	Dynalite	Dynalite manufactures technology solutions for lighting control and energy management applications.	Dynalite
LCO10631	78-050	Servodan Luxstat system	Dimmable 3 zone control unit	Servodan
LCO10652	COPD	PIR Control	Outdoor PIR switch	DANLERS Limited
LCO10653	Multi Sensor 312	Lighting Control	DALI Daylight and PIR sensor	HELVAR
LCO10654	Digidim	Digidim System	System for control of DALI Devices	HELVAR
LCO10655	Digidim Router 910	Digidim Router	Control Device for centralised control of DALI systems and devices.	HELVAR
LCO11170	FNC 4000	Flex Connector dimming Controls	Dimming and presense system control	Flex Connectors Limited
LCO11181	R180	Motion Detector 180' PIR	180 degree range wall-mounted Passive Infra-Red sensor	LED Group
LCO11182	RR360	Recessed Presence Detector 360' PIR	360 degree range recessed Passive Infra-Red sensor	LED Group
LCO11183	R360	Presence Detector 360'	360 degree Passive InfraRed Sensor	LED Group
LCO11189	Theben Luna Range	Luna Range	A range of twilight switches providing fully automatic control of lighting systems	Theben
LCO11190	Theben Selekt Range	Selekt Range	A range of astronomic time clocks that calculate the sunrise and sunset times for each day of the year.	Theben
LCO11191	Theben Elpa Range	Elpa	A range of electronic staircase light time switches	Theben
LCO11192	Theben Termina Range	Termina	A range of digital programmable time switches	Theben
LCO11193	Theben HTS Range	HTS	A high end range of presence detectors both surface and recessed.	Theben
LCO11194	Theben KNX Range	KNX	A range of home and building system technologies	Theben
LCO11280	910	DIGIDIM	Lighting Control System(s) with emphasis on daylight controls, PIR detectors and monitoring.	HELVAR

ACA Code	Product Code	Product Name	Short Description	Manufacturer
LCO11923	Niko Daylight control	Niko Daylight control	control of lighting via ultrasonic presence detectors and light measuring cells. The system can maintain a predetermined light level by automatically adjusting the intensity of the lighting within a building in relation to the amount of natural light available throughout the day, as well as switching off the lighting when areas are unoccupied. Ultrasonic detection allows the detection of presence behind obstacles such as office partitions.	Niko
LCO12195	AK-SC255E	AK-SC255E	Danfoss AK-SC255E lighting system, lighting scheduling management & indoor/out door lighting control for supermarkets distribution centers & administrative facilities	Danfoss
LCO12403	ELLIPSE SW	Time Lag Switches	Push button time lag switch for Stairwells Lobbies Storerooms Corridors suitable for retrofit	CP Electronics
LCO12404	MRT16-PB SW	Multi Range Timers	Push button timer suitable for Lighting Control Heating Boost and Ventilation Control indoor or outdoor	CP Electronics
LCO12405	PDS SW	Wall Mounted PIR Switches	No neutral presence detector with adjustable 1 hour time delay multiway switching and 9 metre coverage presence or absence mode	CP Electronics
LCO12406	EBDSPIR SW	Ceiling Mounted PIR Switches	Ceiling Mounted PIR with time and lux level adjustment IP rated Dimming and multi channel options available presence or absence detection	CP Electronics
LCO12407	EBMPIR-B/SA/C SW	Miniature PIR Switches	Miniature PIR basic standalone complete kit luminaire mounting or stand alone	CP Electronics
LCO12408	SPIR-F/C SW	Ceiling Box Mounted PIR Switches	Ceiling mounted presence detector for square accessory box	CP Electronics
LCO12409	MWS-1 SW	Microwave Presence Detectors	Microwave presence detector with 30m detection range with time and lux level control IP and dimming DSI or DALI versions available also. Presence or Absence detection	CP Electronics
LCO12410	VITB-PD SW	Vitesse Lighting Distribution Systems	Vitesse PIR detector with 3m lead & connector	CP Electronics

ACA Code	Product Code	Product Name	Short Description	Manufacturer
LCO12411	ALC15 SW	Light Level Controls	Photocell Twilight Switch IP66 with adjustable time delay and switching differential in a vandal resistant enclosure.	CP Electronics
LCO12412	TH-857 SW	DIN Rail Time Switches	Single and Two channel DIN rail time switch	CP Electronics
LCO12413	GI1DC SW	Green I	green-i single or double dimmer with remote control security and scene selection features. Lux level presence or absence modes also	CP Electronics
LCO12596	Elkay Energy Saving Sensors/Switch	Elkay Energy Saving Lighting Control	Range of Energy Saving Lighting Controls	Elkay
LCO12610	LWZ-PL-H..	EnergySave "LightWiz" ..	The EnergySave LightWiz reduces KWh usage for lighting by reducing voltage to lighting circuits.	Ahead Innovations Limited
LCO12677	Nikobus.lighting control	Nikobus (lighting control)	Programmable lighting control. lighting can be controlled by presence detectors, photocells, timeclocks and programmable lighting switches and touchscreen controllers	Niko

Aca Code	Product Code	Product Name	Short Description	Manufacturer
LCO13170	Liteminder	Liteminder	A range of 240 volt self contained occupancy sensors with or without photocell, wall mounted, ceiling mounted surface or recessed.	Setsquare Ltd
LCO13171	INFRAPOD	INFRAPOD	INFRAPOD system with Single Relay, dual relay and 2 zone relay (Up To 10 PDOCH / MLMW sensors and 1 photocell)	Setsquare Ltd
LCO13172	Daylux	Daylux	Control Unit Analogue or Digital (Single Relay 8 Amp Load Or 8 HF Ballasts — Maximum Of 50 Ballasts) — Up To 10 PDOCH/MLMW sensors and 1 ALD5 Photocell / manual or auto dimming plus IR control	Setsquare Ltd
LCO13173	DLCS	DLCS	Daylux digital controller for Analogue/DSI or DALI broadcast with scene set plates and IR facility	Setsquare Ltd
LCO13174	Sensalux	Sensalux	Sensalux Controller Single Relay, dual relay with internal or external photocell and time clock	Setsquare Ltd
LCO13175	Setlite	Setlite	Setlite sytem with single relay,dual relay and 2 zone relay control unit plus 20/30/60Metres Range Sensor Metal Case or vandal resistant, photocell	Setsquare Ltd

9. Part 5 of Schedule 2 to the Principal Order is amended by inserting the following:

ACA Code	Product Code	Product Name	Short Description	Manufacturer
BEM11033	Vykon/JACE	Tridium Niagara	Web based Java software framework that allows BEMS to integrate into other systems.	Tridium
BEM11102	RSG40	MEMOGRAPH M	This is a Graphical Data Manager, which can Record, Visualise, Analyse and Communicate Process Signals. It has Steam Tables and Heat calculation tables included for Energy, Enthalpy & Heat Calcs.	Endress+Hauser Ireland
BEM11103	RMM621	Application Manager	Logging, computing and controlling of processes and process values with READWIN 2000 PC configuration and operation software- RS232/485, Ethernet, PROFIBUS interface options	Endress+Hauser Ireland
BEM11167	19150500	Devicom™ PC PRO	Control of electrical or water based heating systems operated by network connected Devireg™ 550 thermostats. The system offers the operator a central way to monitor and control the heating system.	Danfoss
BEM11953	Hughes-EMS	Hughes Energy Monitoring System	A complete energy monitoring & targeting solution tailored for individual sites, including hardware, data loggers, browser-based M&T software, installation, training and support.	Hughes Energy Systems Ltd
BEM11954	EnECOMS09	EnECOMS	An intelligent energy management solution, that provides true real time energy monitoring, recording and load shedding functionality across a full spectrum of business enterprises	ICM UniComp Ltd
BEM12194	AK-SC 255 E	AK-SC 255 E	Danfoss AK-SC255E total system energy manager for control & monitoring of refrigeration lighting schedules HVAC & food quality temperatures (HACCP) in supermarkets distribution centres & process system	Danfoss

ACA Code	Product Code	Product Name	Short Description	Manufacturer
BEM12342	Microbox Energy Monitoring/ Management System	Siemens Microbox Energy Management system	Siemens Micorbox solution can be used for all types of energy, to deliver detailed information on consumption & costs. This transparency permits optimisation of energy consumption.	Siemens Ltd.
BEM12354	ELMO System	ELMO System	ELMO Radio Based Energy Monitoring System	IMC Group
BEM12559	rz100.	cisco richards-zeta	richards-zeta range of controllers for building services	Richards-Zeta
BEM13380	North BEMS	North BEMS	Consists of sub systems Commander, Compass, Zip and Obsys	North Building Technologies
BEM11052	EFT— EM001	EFT Energy Manager	Energy Management Software Platform	EFT
BEM12557	ICIS-PE-02B	ICIS Plant Energy	Energy monitoring and analysis web application that utilises metered and non-metered data from field and automation systems to provide detailed reports and graphs on power/water/steam usage & costs	ICIS
BEM13361	9912-0000	OREM	OREM utilises cellular, web and sensor technology to provide automated remote monitoring, management and control of building energy assets and associated fuels. Optimises fuel use and comfort levels.	DedicatedEngines Ltd
BEM13611	PA310	power transducer	split type, clip on Current transformer, CT three phase included, max. measure 200Amp	Arch Meter Corp
BEM24812	CS NET Web V2	CS Net Web	Web based air conditioning central control and monitoring system.	HITACHI

10. Schedule 2 to the Principal Order is amended by inserting the following:

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**Part 6**

**Enterprise Servers Eligible Products**

<b>Aca Code</b>	<b>Product Code</b>	<b>Product Name</b>	<b>Short Description</b>	<b>Manufacturer</b>
ESE24767	DL160 G6	DL160 G6	DL 160 G6 2 Intel X55xx processor, 144 GB DDR3 Memory, Rack server	Hewlett Packard
ESE24768	DL165 G6	DL165 G6	DL 165 G6 2 AMD 24xx processor, 64 GB DDR2 Memory, Rack server	Hewlett Packard
ESE24769	DL180 G6	DL180 G6	DL 180 G6 2 Intel X55xx processor, 96 GB DDR3 Memory, Rack server	Hewlett Packard
ESE24770	DL320 G6	DL320 G6	DL 320 G6 Intel X55xx processor, 72 GB DDR3 Memory, Rack server	Hewlett Packard
ESE24771	DL360 G6	DL360 G6	DL 320 G6 2 Intel X55xx processor, 144 GB DDR3 Memory, Rack server	Hewlett Packard
ESE24772	DL360 G6 5570	DL360 G6 5570	DL 320 G6 2 Intel X5570 processor, 144 GB DDR3 Memory, Rack server	Hewlett Packard
ESE24773	DL370 G6	DL370 G6	DL 370 G6 2 Intel X55xx processor, 144 GB DDR3 Memory, Rack server	Hewlett Packard
ESE24774	DL380 G6 5520	DL380 G6 5520	DL 380 G6 2 Intel 5520 processor, 144 GB DDR3 Memory, Rack server	Hewlett Packard
ESE24775	DL380 G6	DL380 G6	DL 380 G6 2 Intel 55xx processor, 144 GB DDR3 Memory, Rack server	Hewlett Packard
ESE24776	DL385 G6	DL385 G6	DL 385 G6 2 AMD 24xx processor, 128 GB DDR2 Memory, Rack server	Hewlett Packard
ESE24777	DL585 G6	DL585 G6	DL 585 G6 2 AMD 84xx processor, 256 GB DDR2 Memory, SSD, Rack server	Hewlett Packard
ESE24778	DL785 G6	DL785 G6	DL 785 G6 8 AMD 84xx processors Rack Server	Hewlett Packard
ESE24779	ML150 G6	ML150 G6	2 Intel X55xx processor, 48 GB DDR3 Memory, Tower server	Hewlett Packard
ESE24780	ML330 G6	ML330 G6	ML 330 G6 2 Intel X55xx processor, 144 GB DDR3 Memory, Tower server	Hewlett Packard
ESE24781	ML350 G6	ML350 G6	ML 350 G6 2 Intel X55xx processor, 144 GB DDR3 Memory, Tower server	Hewlett Packard
ESE24782	ML370 G6	ML370 G6	ML 370 G6 2 Intel X55xx processor, 144 GB DDR3 Memory, Tower server	Hewlett Packard
ESE24783	487912-B21 VS4-ENT/VI3-ENT	VS4-ENT/VI3-ENT ML150G6	Hewlett Packard 2 Intel X55xx processor 48 GB DDR3 Memory, Tower server and	VMware International Limited

Aca Code	Product Code	Product Name	Short Description	Manufacturer
			VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	
ESE24784	491531-B21/491532-B21 VS4-ENT/VI3-ENT	VS4-ENT/VI3-ENT DL160 G6	Hewlett Packard 2 Intel X55xx processor, 144 GB DDR3 Memory, Rack Server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24785	VS4-ENT/VI3-ENT DL165 G6	VS4-ENT/VI3-ENT DL165 G6	Hewlett Packard 2 AMD 24xx processor, 64 GB DDR2 Memory, Rack server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24786	507168-B21 VS4-ENT/VI3-ENT	VS4-ENT/VI3-ENT DL180 G6	Hewlett Packard 2 Intel X55xx processor 96 GB DDR3 Memory, Rack server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24787	505768-B21 VS4-ENT/VI3-ENT	VS4-ENT/VI3-ENT DL320 G6	Hewlett Packard Intel X55xx processor 72 GB DDR3 Memory, Rack server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24788	484184-B21 VS4-ENT/VI3-ENT	VS4-ENT/VI3-ENT DL360 G6	Hewlett Packard 2 Intel X55xx processor, 144 GB DDR3 Memory, Rack Server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24789	483874-B21 483879-B21 VS4-ENT/VI3-ENT	VS4-ENT/VI3-ENT DL370 G6	Hewlett Packard 2 Intel X55xx processor, 144 GB DDR3 Memory, Rack Server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24790	483880-B21 483879-B21 VS4-ENT/VI3-ENT	VS4-ENT/VI3-EN ML370G6	Hewlett Packard 2 Intel X55xx processor, 144 GB DDR3 Memory, Tower Server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24791	VS4-ENT/VI3-ENT DL385 G6	VS4-ENT/VI3-ENT DL385 G6	Hewlett Packard 2 AMD 24xx processor, 128 GB DDR2 Memory, Rack server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24792	366701-001 VS4-ENT/VI3-ENT	VS4-ENT/VI3-ENT DL380 G6	Hewlett Packard 2 Intel X55xx processor, 144 GB DDR3 Memory, Rack Server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24793	507865-B21 VS4-ENT/VI3-ENT	VS4-ENT/VI3-ENT BL280c G6	Hewlett Packard 2 Intel X55xx processor, 96 GB DDR3 Memory, Blade Server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited

Aca Code	Product Code	Product Name	Short Description	Manufacturer
ESE24794	483444-B21 483448-B21 483443-B21 483447-B21 VS4-ENT/VI3-ENT	VS4-ENT/VI3-ENT ML350 G6	Hewlett Packard 2 Intel X55xx processor, 144 GB DDR3 Memory, Tower Server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24799	VS4-ENT/VI3-ENT DL585 G6	VS4-ENT/VI3-ENT DL585 G6	Hewlett Packard 2 AMD 84xx processor, 256 GB DDR2 Memory, SSD, rack server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24801	VS4-ENT/VI3-ENT DL785 G6	VS4-ENT/VI3-ENT DL785 G6	Hewlett Packard 8 AMD 84xx processors, Rack server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24802	VS4-ENT/VI3-ENT ML330 G6	VS4-ENT/VI3-ENT ML330 G6	Hewlett Packard 2 Intel X55xx processor, 144 GB DDR3 Memory Tower Server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24803	R710 VS4-ENT/VI3-ENT	VS4-ENT/VI3-ENT PowerEdge™ R710	Dell Inc. PowerEdge R710 (Intel Xeon X5570, 2.93 GHz) and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24804	R610 L:274.1 M:436 H:645 VS4-ENT/VI3-ENT	VS4-ENT/VI3-ENT PowerEdge™ R610	Dell Inc. PowerEdge R610 (Intel Xeon X5570, 2.93 GHz) and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24805	R300 L:239.9 M:292.9 H:341 VS4-ENT/VI3-ENT	VS4-ENT/VI3-ENT PowerEdge™ R300	Dell Inc. PowerEdge R300 and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24826	X3400 M2	X3400 M2	x3400 M2 is a dual socket 5U tower server with up to 96 GB of RAM & up to 8 hard disks	IBM Ltd.
ESE24827	X3550 M2	X3550 M2	x3550 M2 is a dual socket 1U rack server with up to 128 GB of RAM & up to 6 hard disks	IBM Ltd.
ESE24828	X3650 M2	X3650 M2	x3650 M2 is a dual socket 2U rack server with up to 128 GB of RAM & up to 12 hard disks	IBM Ltd.
ESE24862	x3400 M2 VS4-ENT/VI3-ENT	VS4-ENT/VI3-ENT x3400 M2	IBM x3400 M2 server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS) <a href="http://www-03.ibm.com/systems/x/solutions/os/vmware/vmware.html">http://www-03.ibm.com/systems/x/solutions/os/vmware/vmware.html</a>	VMware International Limited
ESE24863	x3550 M2 VS4-ENT/VI3-ENT	VS4-ENT/VI3-ENT x3550 M2	IBM x3550 M2 server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS) <a href="http://www-03.ibm.com/systems/x/solutions/os/vmware/vmware.html">http://www-03.ibm.com/systems/x/solutions/os/vmware/vmware.html</a>	VMware International Limited

Aca Code	Product Code	Product Name	Short Description	Manufacturer
ESE24864	x3650 M2 VS4-ENT/VI3-ENT	VS4-ENT/VI3-ENT x3650 M2	IBM x3650 M2 server VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS) <a href="http://www-03.ibm.com/systems/x/solutions/os/vmware/vmware.html">http://www-03.ibm.com/systems/x/solutions/os/vmware/vmware.html</a>	VMware International Limited

### Part 7

#### Enterprise Storage Eligible Products

Aca Code	Product Code	Product Name	Short Description	Manufacturer
EST17382	DL4106	DL4106	EMC Disk Library for midsize and large enterprises	EMC INFORMATION SYSTEMS INTERNATIONAL
EST17383	DL4206	DL4206	EMC Disk Library for midsize and large enterprises	EMC INFORMATION SYSTEMS INTERNATIONAL
EST17384	DL4406A	DL4406A	EMC Disk Library for midsize and large enterprises	EMC INFORMATION SYSTEMS INTERNATIONAL
EST17385	DL4406B	DL4406B	EMC Disk Library for midsize and large enterprises	EMC INFORMATION SYSTEMS INTERNATIONAL
EST17386	3D4000	3D4000	EMC Disk Library for midsize and large enterprises	EMC INFORMATION SYSTEMS INTERNATIONAL

### Part 10

#### Centralised Direct Current Power Distribution Eligible Products

Aca Code	Product Code	Product Name	Short Description	Manufacturer
CDC24945	CTO20402	FP2 19" 48Vdc 8kW 230V1ph LVBD	8KW Flatpack 2 integrated 19" Power Core. Height 2u complete with: up to 2x battery MCBs, up to 6x load MCBs (up to 60amp) LVBD, up to 6 alarm outputs, optional SNMP, Temp Comp. and Batt Symmetry.	Eltek Valere
CDC24946	CTO20806	FP2 19" 48Vdc 16kW 400Vac3ph LVBD	16KW Flatpack 2 integrated 19" Power Core. Height 6u complete with: up to 6x battery MCBs, up to 18x load MCBs (up to 125amp) LVBD, up to 6 alarm outputs, optional SNMP, Temp Comp. and Batt Symmetry.	Eltek Valere
CDC24947	CTO208042	FP2 PRSB 16kW 48V 400Vac LVBD	16KW Flatpack 2 Power Cabinet. Height 2M complete with: up to 6x battery MCBs, up to 48x load MCBs (up to 125amp) LVBD, up to 4 Batt Shelves, optional SNMP, Temp Comp. and Batt Symmetry.	Eltek Valere

Aca Code	Product Code	Product Name	Short Description	Manufacturer
CDC24948	CTO21242	FP2 PRSB 24kW 48V 400Vac LVBD	24KW Flatpack 2 Power Cabinet. Height 2M complete with: up to 6x battery MCBs, up to 48x load MCBs (up to 125amp) LVBD, up to 4 Batt Shelves, optional SNMP, Temp Comp. and Batt Symmetry.	Eltek Valere
CDC24949	C22442	FP2 PRS 48kW 48V 3ph400V LVBD	48KW Flatpack 2 Power Cabinet. Height 2M complete with: up to 4x battery Fuses, up to 60x load MCBs, up to 8x load Fuses (up to 600amp) LVBD, optional SNMP, Temp Comp. and Batt Symmetry.	Eltek Valere
CDC24950	C24842	FP2 PRS 96kW 48V 3ph400V LVBD	96KW Flatpack 2 Power Cabinet. Height 2M complete with: up to 4x battery Fuses, up to 60x load MCBs, up to 8x load Fuses (up to 600amp) LVBD, optional SNMP, Temp Comp. and Batt Symmetry.	Eltek Valere
CDC24952	CTO20828	FP2 8kW T3 outdoor cabinet 1.5M	16KW Outdoor Cabinet. Height 1.5M complete with: up to 6x battery MCBs, up to 18x load MCBs (up to 60amp) LVBD, optional SNMP, Temp Comp. and Batt Symmetry. Fan Filter or Air Con.	Eltek Valere
CDC24953	CTO20834	FP2 8kW T3 outdoor cabinet 1.8M	16KW Outdoor Cabinet. Height 1.8M complete with: up to 6x battery MCBs, up to 18x load MCBs (up to 60amp) LVBD, optional SNMP, Temp Comp. and Batt Symmetry. Fan Filter or Air Con.	Eltek Valere

### Part 14

#### Wind Turbines Eligible Products

Aca Code	Product Code	Product Name	Short Description	Manufacturer
WTU24917	E5.6-6	Eoltec Scirocco	Eoltec Scirocco 6kW Wind Turbine	Eoltec SAS

### Part 18

#### Photovoltaic Systems Eligible Products

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PSY24933	Schott ASI 78	Schott ASI 78	78Wp Thin Film Solar Module	SCHOTT Solar AG
PSY24934	Schott ASI 90	Schott ASI 90	90Wp Thin Film Solar Module	SCHOTT Solar AG
PSY24935	Schott ASI 100	Schott ASI 100	100Wp Thin Film Solar Module	SCHOTT Solar AG
PSY25223	REC205AE	REC205AE	205Wp Polycrystalline Solar Module	REC Solar AS
PSY25225	REC215AE	REC215AE	215Wp Polycrystalline Solar Module	REC Solar AS
PSY25226	REC230AE	REC230AE	230Wp Polycrystalline Solar Module	REC Solar AS

**Part 20****Condensate Recovery Systems Eligible Products**

<b>Aca Code</b>	<b>Product Code</b>	<b>Product Name</b>	<b>Short Description</b>	<b>Manufacturer</b>
CRS23181	6140000	1/2" ITD32L SSL1	1/2" ITD32L Steam Trap BSP with SSL1 sensor	Spirax Sarco Ltd
CRS23182	6140091	1/2" ITD32L WLSL1	1/2" ITD32L Steam Trap BSP with WLSL1 sensor	Spirax Sarco Ltd
CRS23183	6140098	1/2" ITD32L WLSL1 diode	1/2" ITD32L Steam trap BSP with WLSL1 sensor with diode	Spirax Sarco Ltd
CRS23184	6140096	1/2" ITD32LA WLSL1diode	1/2" ITD32LA Steam Trap BSP with WLSL1 sensor with diode	Spirax Sarco Ltd
CRS23185	6140064	1/2" ITD32LA WLSL1	1/2" ITD32LA steam trap BSP with WLS1 Sensor	Spirax Sarco Ltd
CRS23186	6140093	1/2" ITD32LA SSL1	1/2" ITD32LA Steam Trap BSP with SSL1 sensor	Spirax Sarco Ltd
CRS23187	6140100	3/4" ITD32L SSL1	3/4" ITD32L Steam Trap BSP with SSL1 sensor	Spirax Sarco Ltd
CRS23188	6140191	3/4" ITD32L WLSL1	3/4" ITD32L Steam Trap BSP with WLSL1 sensor	Spirax Sarco Ltd
CRS23189	6140198	3/4" ITD32L WLSL1 diode	3/4" ITD32L Steam Trap BSP with WLSL1 sensor with diode	Spirax Sarco Ltd
CRS23190	6150500	1/2" IFTGS14 —14 SS1	1/2" IFTGS14 —14 TV BSP float steam trap with SS1 sensor	Spirax Sarco Ltd
CRS23191	6150400	1/2" IFTGS14 —10 SS1	1/2" IFTGS14 —14 TV BSP float steam trap with SS1 sensor	Spirax Sarco Ltd
CRS23192	6150300	1/2" IFTGS14-4.5 SS1	1/2" IFTGS14-4.5 TV BSP float steam trap with SS1 sensor	Spirax Sarco Ltd
CRS23193	6150560	3/4" IFTGS14 —14 SS1	3/4" IFTGS14 —14 TV BSP float steam trap with SS1 sensor	Spirax Sarco Ltd
CRS23194	6150460	3/4" IFTGS14-10 SS1	3/4" IFTGS14-10 BSP TV float steam trap with SS1 sensor	Spirax Sarco Ltd
CRS23195	6150360	3/4" IFTGS14-4.5 SS1	3/4" IFTGS14-4.5 BSP TV float steam trap with SS1 sensor	Spirax Sarco Ltd
CRS23196	0051070	1/2" IBPC32STD SS1	1/2" IBPC32STD BSP balanced pressure steam trap with SS1 sensor	Spirax Sarco Ltd
CRS23197	0051470	3/4" IBPC32STD SS1	3/4" IBPC32STD BSP balanced pressure steam trap with SS1 sensor	Spirax Sarco Ltd
CRS23198	0051870	1" IBPC32STD SS1	1" IBPC32STD BSP balanced pressure steam trap with SS1 sensor	Spirax Sarco Ltd

**Part 27****Fans Eligible Products**

<b>Aca Code</b>	<b>Product Code</b>	<b>Product Name</b>	<b>Short Description</b>	<b>Manufacturer</b>
FAN17428	A3G630-AG08-03	ebm-papst A3G630-AG08-03	EC Axial 630mm fan	ebm-papst Ltd

<b>Aca Code</b>	<b>Product Code</b>	<b>Product Name</b>	<b>Short Description</b>	<b>Manufacturer</b>
FAN17429	A3G630-AG08-04	ebm-papst A3G630-AG08-04	EC Axial 630mm fan	ebm-papst Ltd
FAN17430	W3G630-CG08-03	ebm-papst W3G630-AG08-03	EC Axial 630mm fan	ebm-papst Ltd
FAN17431	W3G630-CG08-04	ebm-papst W3G630-AG08-04	EC Axial 630mm fan	ebm-papst Ltd
FAN17432	S3G630-BG08-03	ebm-papst S3G630-BG08-03	EC Axial 630mm fan	ebm-papst Ltd
FAN17433	S3G630-AG08-03	ebm-papst S3G630-AG08-03	EC Axial 630mm fan	ebm-papst Ltd
FAN17434	S3G630-CG08-04	ebm-papst S3G630-CG08-04	EC Axial 630mm fan	ebm-papst Ltd
FAN17435	A3G630-AH02-03	ebm-papst A3G630-AH02-03	EC Axial 630mm fan	ebm-papst Ltd
FAN17436	A3G630-AH02-04	ebm-papst A3G630-AH02-04	EC Axial 630mm fan	ebm-papst Ltd
FAN17437	W3G630-CH02-03	ebm-papst W3G630-CH02-03	EC Axial 630mm fan	ebm-papst Ltd
FAN17438	W3G630-CH02-04	ebm-papst W3G630-CH02-04	EC Axial 630mm fan	ebm-papst Ltd
FAN17439	S3G630-BH02-03	ebm-papst S3G630-BH02-03	EC Axial 630mm fan	ebm-papst Ltd
FAN17440	S3G630-AH02-03	ebm-papst S3G630-AH02-03	EC Axial 630mm fan	ebm-papst Ltd
FAN17441	S3G630-CH02-04	ebm-papst S3G630-CH02-04	EC Axial 630mm fan	ebm-papst Ltd
FAN17442	A3G650-AJ08-03	ebm-papst A3G650-AJ08-03	EC Axial 650mm fan	ebm-papst Ltd
FAN17443	A3G650-AJ08-04	ebm-papst A3G650-AJ08-04	EC Axial 650mm fan	ebm-papst Ltd
FAN17444	W3G650-CJ08-03	ebm-papst W3G650-CJ08-03	EC Axial 650mm fan	ebm-papst Ltd
FAN17445	W3G650-CJ08-04	ebm-papst W3G650-CJ08-04	EC Axial 650mm fan	ebm-papst Ltd
FAN17446	S3G650-BJ08-03	ebm-papst S3G650-BJ08-03	EC Axial 650mm fan	ebm-papst Ltd
FAN17447	S3G650-CJ08-04	ebm-papst S3G650-CJ08-04	EC Axial 650mm fan	ebm-papst Ltd
FAN17448	A3G650-AK02-03	ebm-papst A3G650-AK02-03	EC Axial 650mm fan	ebm-papst Ltd
FAN17449	A3G650-AK02-04	ebm-papst A3G650-AK02-04	EC Axial 650mm fan	ebm-papst Ltd
FAN17450	W3G650-CK02-03	ebm-papst W3G650-CK02-03	EC Axial 650mm fan	ebm-papst Ltd
FAN17451	W3G650-CK02-04	ebm-papst W3G650-CK02-04	EC Axial 650mm fan	ebm-papst Ltd
FAN17452	S3G650-BK02-03	ebm-papst S3G650-BK02-03	EC Axial 650mm fan	ebm-papst Ltd
FAN17453	S3G650-CK02-04	ebm-papst S3G650-CK02-04	EC Axial 650mm fan	ebm-papst Ltd

<b>Aca Code</b>	<b>Product Code</b>	<b>Product Name</b>	<b>Short Description</b>	<b>Manufacturer</b>
FAN17454	A3G710-AG01-03	ebm-papst A3G710-AG01-03	EC Axial 710mm fan	ebm-papst Ltd
FAN17455	A3G710-AG01-04	ebm-papst A3G710-AG01-04	EC Axial 710mm fan	ebm-papst Ltd
FAN17456	W3G710-CG01-03	ebm-papst W3G710-CG01-03	EC Axial 710mm fan	ebm-papst Ltd
FAN17457	W3G710-CG01-04	ebm-papst W3G710-CG01-04	EC Axial 710mm fan	ebm-papst Ltd
FAN17458	S3G710-BG01-03	ebm-papst S3G710-BG01-03	EC Axial 710mm fan	ebm-papst Ltd
FAN17459	S3G710-AG01-03	ebm-papst S3G710-AG01-03	EC Axial 710mm fan	ebm-papst Ltd
FAN17460	S3G710-CG01-04	ebm-papst S3G710-CG01-04	EC Axial 710mm fan	ebm-papst Ltd
FAN17461	A3G710-AH06-03	ebm-papst A3G710-AH06-03	EC Axial 710mm fan	ebm-papst Ltd
FAN17462	A3G710-AH06-04	ebm-papst A3G710-AH06-04	EC Axial 710mm fan	ebm-papst Ltd
FAN17463	W3G710-CH06-03	ebm-papst W3G710-CH06-03	EC Axial 710mm fan	ebm-papst Ltd
FAN17464	W3G710-CH06-04	ebm-papst W3G710-CH06-04	EC Axial 710mm fan	ebm-papst Ltd
FAN17465	S3G710-BH06-03	ebm-papst S3G710-BH06-03	EC Axial 710mm fan	ebm-papst Ltd
FAN17466	S3G710-AH06-03	ebm-papst S3G710-AH06-03	EC Axial 710mm fan	ebm-papst Ltd
FAN17467	S3G710-CH06-04	ebm-papst S3G710-CH06-04	EC Axial 710mm fan	ebm-papst Ltd
FAN17468	A3G800-AG02-03	ebm-papst A3G800-AG02-03	EC Axial 800mm fan	ebm-papst Ltd
FAN17469	A3G800-AG02-04	ebm-papst A3G800-AG02-04	EC Axial 800mm fan	ebm-papst Ltd
FAN17470	W3G800-CG02-03	ebm-papst W3G800-CG02-03	EC Axial 800mm fan	ebm-papst Ltd
FAN17471	W3G800-CG02-04	ebm-papst W3G800-CG02-04	EC Axial 800mm fan	ebm-papst Ltd
FAN17472	S3G800-BG02-03	ebm-papst S3G800-BG02-03	EC Axial 800mm fan	ebm-papst Ltd
FAN17473	S3G800-AG02-03	ebm-papst S3G800-AG02-03	EC Axial 800mm fan	ebm-papst Ltd
FAN17474	S3G800-CG02-04	ebm-papst S3G800-CG02-04	EC Axial 800mm fan	ebm-papst Ltd
FAN17475	A3G800-AH03-03	ebm-papst A3G800-AH03-03	EC Axial 800mm fan	ebm-papst Ltd
FAN17476	A3G800-AH03-04	ebm-papst A3G800-AH03-04	EC Axial 800mm fan	ebm-papst Ltd
FAN17477	W3G800-CH03-03	ebm-papst W3G800-CH03-03	EC Axial 800mm fan	ebm-papst Ltd
FAN17478	W3G800-CH03-04	ebm-papst W3G800-CH03-04	EC Axial 800mm fan	ebm-papst Ltd

<b>Aca Code</b>	<b>Product Code</b>	<b>Product Name</b>	<b>Short Description</b>	<b>Manufacturer</b>
FAN17479	S3G800-BH03-03	ebm-papst S3G800-BH03-03	EC Axial 800mm fan	ebm-papst Ltd
FAN17480	S3G800-AH03-03	ebm-papst S3G800-AH03-03	EC Axial 800mm fan	ebm-papst Ltd
FAN17481	S3G800-CH03-04	ebm-papst S3G800-CH03-04	EC Axial 800mm fan	ebm-papst Ltd
FAN17482	A3G910-AG02-03	ebm-papst A3G910-AG02-03	EC Axial 910mm fan	ebm-papst Ltd
FAN17483	W3G910-CG02-03	ebm-papst W3G910-CG02-03	EC Axial 910mm fan	ebm-papst Ltd
FAN17484	W3G910-CG02-04	ebm-papst W3G910-CG02-04	EC Axial 910mm fan	ebm-papst Ltd
FAN17485	S3G910-BG02-03	ebm-papst S3G910-BG02-03	EC Axial 910mm fan	ebm-papst Ltd
FAN17486	S3G910-AG02-03	ebm-papst S3G910-AG02-03	EC Axial 910mm fan	ebm-papst Ltd
FAN17487	S3G910-CG02-04	ebm-papst S3G910-CG02-04	EC Axial 910mm fan	ebm-papst Ltd
FAN17488	A3G910-AH04-03	ebm-papst A3G910-AH04-03	EC Axial 910mm fan	ebm-papst Ltd
FAN17489	A3G910-AH04-04	ebm-papst A3G910-AH04-04	EC Axial 910mm fan	ebm-papst Ltd
FAN17490	W3G910-CH04-03	ebm-papst W3G910-CH04-03	EC Axial 910mm fan	ebm-papst Ltd
FAN17491	W3G910-CH04-04	ebm-papst W3G910-CH04-04	EC Axial 910mm fan	ebm-papst Ltd
FAN17492	S3G910-BH04-03	ebm-papst S3G910-BH04-03	EC Axial 910mm fan	ebm-papst Ltd
FAN17493	S3G910-AH04-03	ebm-papst S3G910-AH04-03	EC Axial 910mm fan	ebm-papst Ltd
FAN17494	S3G910-CH04-04	ebm-papst S3G910-CH04-04	EC Axial 910mm fan	ebm-papst Ltd
FAN17495	A3G910-AI02-03	ebm-papst A3G910-AI02-03	EC Axial 910mm fan	ebm-papst Ltd
FAN17496	A3G910-AI02-04	ebm-papst A3G910-AI02-04	EC Axial 910mm fan	ebm-papst Ltd
FAN17497	W3G910-CI02-03	ebm-papst W3G910-CI02-03	EC Axial 910mm fan	ebm-papst Ltd
FAN17498	S3G910-BI02-03	ebm-papst S3G910-BI02-03	EC Axial 910mm fan	ebm-papst Ltd
FAN17499	S3G910-AI02-03	ebm-papst S3G910-AI02-03	EC Axial 910mm fan	ebm-papst Ltd
FAN17500	S3G910-CI02-04	ebm-papst S3G910-CI02-04	EC Axial 910mm fan	ebm-papst Ltd
FAN17501	A3G990-AD05-03	ebm-papst A3G990-AD05-03	EC Axial 990mm fan	ebm-papst Ltd
FAN17502	A3G990-AD05-04	ebm-papst A3G990-AD05-04	EC Axial 990mm fan	ebm-papst Ltd
FAN17503	W3G990-CD05-03	ebm-papst W3G990-CD05-03	EC Axial 990mm fan	ebm-papst Ltd

<b>Aca Code</b>	<b>Product Code</b>	<b>Product Name</b>	<b>Short Description</b>	<b>Manufacturer</b>
FAN17504	W3G990-CD05-04	ebm-papst W3G990-CD05-04	EC Axial 990mm fan	ebm-papst Ltd
FAN17505	S3G990-BD05-03	ebm-papst S3G990-BD05-03	EC Axial 990mm fan	ebm-papst Ltd
FAN17506	S3G990-CD05-04	ebm-papst S3G990-CD05-04	EC Axial 990mm fan	ebm-papst Ltd
FAN17507	A3G990-AE03-03	ebm-papst A3G990-AE03-03	EC Axial 990mm fan	ebm-papst Ltd
FAN17508	A3G990-AE03-04	ebm-papst A3G990-AE03-04	EC Axial 990mm fan	ebm-papst Ltd
FAN17509	W3G990-CE03-03	ebm-papst W3G990-CE03-03	EC Axial 990mm fan	ebm-papst Ltd
FAN17510	W3G990-CE03-04	ebm-papst W3G990-CE03-04	EC Axial 990mm fan	ebm-papst Ltd
FAN17511	S3G990-BE03-03	ebm-papst S3G990-BE03-03	EC Axial 990mm fan	ebm-papst Ltd
FAN17512	S3G990-CE03-04	ebm-papst S3G990-CE03-04	EC Axial 990mm fan	ebm-papst Ltd
FAN17513	R3G450-AT09-03	ebm-papst R3G450-AT09-03	EC Centrifugal 450mm Backward Curved Fan	ebm-papst Ltd
FAN17514	K3G450-AT09-10	ebm-papst K3G450-AT09-10	EC Centrifugal 450mm Backward Curved Fan	ebm-papst Ltd
FAN17515	K3G450-AT09-03	ebm-papst K3G450-AT09-03	EC Centrifugal 450mm Backward Curved Fan	ebm-papst Ltd
FAN17516	R3G560-AG07-03	ebm-papst R3G560-AG07-03	EC Centrifugal 560mm Backward Curved Fan	ebm-papst Ltd
FAN17517	K3G560-AG07-10	ebm-papst K3G560-AG07-10	EC Centrifugal 560mm Backward Curved Fan	ebm-papst Ltd
FAN17518	K3G560-AG07-03	ebm-papst K3G560-AG07-03	EC Centrifugal 560mm Backward Curved Fan	ebm-papst Ltd
FAN17519	R3G560-AH02-03	ebm-papst R3G560-AH02-03	EC Centrifugal 560mm Backward Curved Fan	ebm-papst Ltd
FAN17520	K3G560-AH02-10	ebm-papst K3G560-AH02-10	EC Centrifugal 560mm Backward Curved Fan	ebm-papst Ltd
FAN17521	K3G560-AH02-03	ebm-papst K3G560-AH02-03	EC Centrifugal 560mm Backward Curved Fan	ebm-papst Ltd

## Part 28

### Electric Vehicles and Associated Charging Equipment Eligible Products

<b>Aca Code</b>	<b>Product Code</b>	<b>Product Name</b>	<b>Short Description</b>	<b>Manufacturer</b>
EVA13358	NEWTON	SMITH	TRUCK	SMITH ELECTRIC VEHICLES
EVA13359	EDISON	SMITH EDISON	Van or Cab/Chassis	SMITH ELECTRIC VEHICLES
EVA13360	AMPERE	SMITH AMPERE	Van	SMITH ELECTRIC VEHICLES
EVA13372	VX-1	Vectrix VX-1	Vectrix Electric Maxi-Scooter	Vectrix Corporation Inc.

<b>Aca Code</b>	<b>Product Code</b>	<b>Product Name</b>	<b>Short Description</b>	<b>Manufacturer</b>
EVA13373	Doblo Electric	Micro-Vett Electric Doblo	Electric Micro-Vett Doblo	Micro-Vett SPA
EVA13374	Daily Electric	Micro-Vett Electric Daily	Electric Micro-Vett Daily	Micro-Vett SPA
EVA13375	Electric Porter	Micro-Vett Electric Porter	Electric Micro-Vett Porter People Carrier	Micro-Vett SPA
EVA13376	Electric Fiorino	Micro-Vett Electric Fiorino	Electric Micro-Vett Fiorino	Micro-Vett SPA
EVA13377	Electric Ducato	Micro-Vett Electric Ducato	Electric Micro-Vett Ducato	Micro-Vett SPA
EVA13378	MEGA CITY	Mega City	Mega e-City Electric Car	Aixam-Mega SAS

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The Minister for Finance approves the making of the foregoing Order.



GIVEN under my Official Seal,  
24 September 2009.

BRIAN LENIHAN,  
Minister for Finance.



GIVEN under my Official Seal,  
28 September 2009.

EAMON RYAN,  
Minister for Communications, Energy Natural Resources.

EXPLANATORY NOTE

*(This note is not part of the Instrument and does not purport to be a legal interpretation.)*

The effect of this Order is to update, in accordance with the provisions of section 285A of the Taxes Consolidation Act 1997 (amended by section 37 of the Finance (No. 2) Act 2008), those energy efficient products whose capital cost will be eligible for accelerated capital allowances and to update the energy efficiency criteria used to determine eligibility for inclusion on those product lists.

The Accelerated Capital Allowance Scheme will involve quarterly updates to those product lists.

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