

**WARNING**

**Danger to life if the safety instructions and installation instructions are not observed**

The compact installation instructions only contain the most important information for installing the Power Module. If the safety instructions and installation instructions in the associated documentation are not observed, accidents involving severe injuries or death can occur.

- Observe the safety instructions and installation instructions given in the associated documentation. See also <http://support.automation.siemens.com/cs/ww/en/ps/13224/man>

Dimensions, Drill patterns, Fixings

Lifting FSG    Lifting FSD, FSE, FSF

Dimensions table:

| Frame size | Distances (mm) <sup>1)</sup> |       |       | Fixings |             | Drill pattern (mm) |       |
|------------|------------------------------|-------|-------|---------|-------------|--------------------|-------|
|            | Above                        | Below | Front | Screw   | Torque (Nm) | b                  | h     |
| FSD        | 300                          | 350   | 100   | M5      | 6           | 170                | 430   |
| FSE        | 300                          | 350   | 100   | M6      | 10          | 230                | 509   |
| FSF        | 300                          | 350   | 100   | M8      | 25          | 270                | 680   |
| FSG        | 300                          | 350   | 100   | M10     | 50          | 265                | 970.5 |

<sup>1)</sup> Referred to the Power Module, except screening shields. The Power Modules can be mounted side-by-side. Due to tolerance reasons, we recommend a lateral distance of 1 mm.

Additional dimensions table:

| Frame size | Dimensions (mm) |                             |                          |       | With control Unit       |                                  |                         |          |          |          |
|------------|-----------------|-----------------------------|--------------------------|-------|-------------------------|----------------------------------|-------------------------|----------|----------|----------|
|            | Width           | Height without shield plate | Height with shield plate | Depth | CU230 P-2 <sup>1)</sup> | CUA / CU240 B/E -2 <sup>1)</sup> | CU250 S-2 <sup>1)</sup> | CU305 DP | CU305 PN | CU310 -2 |
| FSD        | 200             | 472                         | 624                      | 237   | 253                     | 237                              | 256                     | 248.5    | 264.5    | 268.5    |
| FSE        | 275             | 551                         | 728                      | 237   | 253                     | 237                              | 256                     | 248.5    | 264.5    | 268.5    |
| FSF        | 305             | 709                         | 965                      | 357   | 373                     | 357                              | 376                     | 368.5    | 384.5    | 388.5    |
| FSG        | 305             | 1000                        | 1255                     | 357   | 373                     | 357                              | 376                     | 368.5    | 384.5    | 388.5    |

<sup>1)</sup> With an OP or a blanking cover, plus 11 mm; with SINAMICS G120 Smart Access, plus 9 mm.

FSD, FSE

Mounting shielding plate

Removing covers

Connecting and shielding

FSF, FSG

Mounting shielding plate, FSF

Removing covers FSF, FSG

Connecting and shielding FSF

Mounting shielding plate, FSG

Separating plates, FSG

Warning

For safe operation separating plates must be inserted after cabling.

Connecting and shielding FSG

|                                                                  |                                                                                                                                                                                                                                                                                                                                 |       |                                 |                                 |                   |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------|---------------------------------|-------------------|
| Input frequency:                                                 | 50 Hz ... 60 Hz, ± 3 Hz                                                                                                                                                                                                                                                                                                         |       | Power factor λ:                 | > 0.9                           |                   |
| Output frequency:                                                | 0 Hz ... 550 Hz, depending on the control mode                                                                                                                                                                                                                                                                                  |       | Inrush current                  | Less than rated input current   |                   |
| Pulse frequency<br>(Increasesable in 2 kHz steps <sup>1)</sup> ) | 200 V Units, factory setting: 4 kHz                                                                                                                                                                                                                                                                                             |       | setting range: 2 kHz ... 16 kHz |                                 | 11 kW ... 30 kW   |
|                                                                  |                                                                                                                                                                                                                                                                                                                                 |       | 2 kHz ... 8 kHz                 |                                 | 37 kW ... 55 kW   |
|                                                                  | 400 V Units, factory setting:                                                                                                                                                                                                                                                                                                   | 4 kHz | 18.5 kW ... 90 kW               | setting range: 2 kHz ... 16 kHz | 18.5 kW ... 45 kW |
|                                                                  |                                                                                                                                                                                                                                                                                                                                 | 2 kHz | 110 kW ... 250 kW               | 2 kHz ... 8 kHz                 | 55 kW ... 90 kW   |
|                                                                  |                                                                                                                                                                                                                                                                                                                                 |       | 2 kHz ... 4 kHz                 | 110 kW ... 132 kW               |                   |
|                                                                  |                                                                                                                                                                                                                                                                                                                                 |       | 2 kHz ... 8 kHz                 | 160 kW ... 250 kW               |                   |
|                                                                  | 690 V Units, factory setting: 2 kHz                                                                                                                                                                                                                                                                                             |       | setting range: 2 kHz ... 4 kHz  |                                 |                   |
| Electromagnetic compatibility                                    | Filtered devices comply with EN 61800 -3: 2012 and are suitable for Category C2 / C3. For more details refer to the Hardware Installation Manual.                                                                                                                                                                               |       |                                 |                                 |                   |
| Braking methods                                                  | DC braking, Compound braking, Resistor braking (Resistor braking only with PM240-2)                                                                                                                                                                                                                                             |       |                                 |                                 |                   |
| Degree of protection                                             | IP20 according to EN60529 (IEC) / open type (UL)                                                                                                                                                                                                                                                                                |       |                                 |                                 |                   |
| Motor overload protection                                        | This equipment is capable of providing internal motor overload protection according to UL61800-5-1. The protection level is 115 % of full load current of the equipment. This is adjusted via parameter p0640 and assumes the equipment has had basic motor commissioning for the motor used as described in the documentation. |       |                                 |                                 |                   |
| Applicable motors                                                | Following motors can be used at full performance:<br>Power Modules 200 V or 400 V: rated motor current: 25 % ... 150 % of the rated converter output current<br>Power Modules 690 V: rated motor current: 50 % ... 150 % of the rated converter output current.                                                                 |       |                                 |                                 |                   |

<sup>1)</sup> Increasing the pulse frequencies leads to an output current reduction. For more details, refer to the Hardware Installation Manual.

| Environmental conditions            | Long-term storage in transport packaging                                                                                                                                     | Transport in transport packaging      | Operation                                         |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------|
| Temperature                         | -25 °C ... 55 °C (-13 °F ... 131 °F)                                                                                                                                         | -40 °C ... 70 °C (- 40 °F ... 158 °F) | -20 °C ... 40 °C (-4 °F ... 104 °F) <sup>1)</sup> |
| Chemical substances                 | Class 1C2 according to EN 60721-3-1                                                                                                                                          | Class 2C2 according to EN 60721-3-2   | Class 3C2 according to EN 60721-3-3               |
| Biological environmental conditions | Class 1B1 according to EN 60721-3-1                                                                                                                                          | Class 2B1 according to EN 60721-3-2   | Class 3B1 according to EN 60721-3-3               |
| Shock and vibration                 | See Hardware Installation Manual                                                                                                                                             |                                       |                                                   |
| Installation altitude               | Up to 1000 m (3300 ft) above sea level without derating / Up to 4000 m (13000 ft) above sea level with derating                                                              |                                       |                                                   |
| Humidity                            | < 95 % RH - non-condensing                                                                                                                                                   |                                       |                                                   |
| Pollution                           | Protected against pollution according to pollution degree level 2.<br>If protection against conductive pollution is required, the unit must be installed in an IP54 cabinet. |                                       |                                                   |

<sup>1)</sup> Operation according to LO with derating up to 60 °C (140 °F).

The maximum and minimum surrounding temperature is limited by the temperature limits of the used components (Power Module, Control Unit or Operator Panel).



**WARNING** - The opening of the branch-circuit protective device may be an indication that a fault current has been interrupted. To reduce the risk of fire or electrical shock, current-carrying parts and other components of the controller should be examined and replaced if damaged. If burnout of the current element of an overload relay occurs, the complete overload relay must be replaced.

For connecting the safety related function "Safe Torque Off" (STO) or Brake Relay use 600 V insulated wire only.

**For United States/Canadian installations (UL/cUL):** The products are cULus listed under E192450.

- **SCCR:** The **Short Circuit Current Rating** of the supply circuit shall not exceed 100 kA rms (Symetrical Amperes), 240/480/600 Vac maximum, when protected by listed Class J fuses or a divergent value, when protected by another protective device listed under <https://support.industry.siemens.com/cs/ww/en/view/109782705>
- Integral solid state short circuit protection does not provide branch circuit protection. Branch circuit protection must be provided in accordance with the NEC or CEC, Part I, respectively, and any additional local codes. You find fuses for branch circuit protection in the table on the right top of this page.
- Install power conductors sufficiently separated or isolated against any low voltage circuits or other power circuits.
- Use 60/75 °C copper conductors only. On the brake resistor terminal of FSE use 75 °C rated conductors only.
- FSF and FSG line and motor terminals shall be connected with UL-Listed (ZMVV) ring lugs with suitable voltage and current rating (min. 125% of input/output current).

**Additional requirements for CSA compliance:** Overvoltage Category OVC III must be ensured for all primary circuit connections of the equipment. This may require Transient Surge Supression (SPD) to be installed on the line side of the equipment. The voltage rating of the SPD shall not be smaller than the supply voltage. It shall provide protection for a rated impulse withstand voltage peak of not more than the VPR shown in the table below.

| Supply voltage        |                  | Phase to ground |        | Phase to ground |      |
|-----------------------|------------------|-----------------|--------|-----------------|------|
|                       |                  | Rated voltage   | VPR    | Rated voltage   | VPR  |
| 3 AC<br>200 ... 240 V | Grounded neutral | 139 V           | 2,5 kV | 240 V           | 4 kV |
|                       | Corner grounded  | 240 V           | 4 kV   | 240 V           | 4 kV |
| 3 AC<br>380 ... 480 V | Grounded neutral | 277 V           | 4 kV   | 480 V           | 4 kV |
|                       | Corner grounded  | 480 V           | 6 kV   | 480 V           | 4 kV |
| 3 AC<br>500 ... 600 V | Grounded neutral | 347 V           | 6 kV   | 600 V           | 4 kV |
|                       | Corner grounded  | 600 V           | 6 kV   | 600 V           | 4 kV |

| Cable cross section and fixing torque |                      |                 |             |                       |             |
|---------------------------------------|----------------------|-----------------|-------------|-----------------------|-------------|
| Frame Size                            | Component            | Cable           | Torque      | Cable                 | Torque      |
|                                       |                      | mm <sup>2</sup> | Nm          | AWG / MCM             | lbf in      |
| FSD                                   | Line, motor, DC link | 10 ... 35       | 2.5 ... 4.5 | 8 AWG ... 2 AWG       | 22 ... 40   |
|                                       | Braking resistor     | 2.5 ... 16      | 1.2 ... 1.5 | 14 AWG ... 6 AWG      | 10.5 ... 13 |
| FSE                                   | Line, motor, DC link | 25 ... 95       | 8 ... 10    | 4 AWG ... 3/0 AWG     | 71 ... 88.5 |
|                                       | Braking resistor     | 10 ... 35       | 2.5 ... 4.5 | 8 AWG ... 2 AWG       | 22 ... 40   |
| FSF                                   | Line, motor, DC link | 35 ... 2x120    | 22 ... 25   | 2 AWG ... 2x4/0 AWG   | 195 ... 221 |
|                                       | Braking resistor     | 25 ... 95       | 8 ... 10    | 4 AWG ... 3/0 AWG     | 71 ... 88.5 |
| FSG                                   | Line, motor, DC link | 35 ... 2x185    | 22 ... 25   | 2 AWG ... 2x350 kcmil | 195 ... 221 |
|                                       | Braking resistor     | 25 ... 95       | 8 ... 10    | 4 AWG ... 3/0 AWG     | 71 ... 88.5 |



**CAUTION**  
Cable cross-section for grounding: Observe local specifications

- In IEC areas, IEC 60264-5-54, Table 52.2.
- In the USA, the NFPA 70 NEC Specifications, Article 250, Table 250.122.
- In Canada, the CEC Canadian Elactrical Code specifications.

#### Data regarding the power loss in accordance with Ecodesign Regulation (EU) 2019/1781 and IEC 61800-9-2

You can find data regading power loss of our products on the Internet:

<https://support.industry.siemens.com/cs/ww/en/view/94059311>



... or follow the link:  
<https://support.industry.siemens.com/cs/del/en/scj/2067>



... or follow the link:  
<http://support.automation.siemens.com/cs/ww/en/ps/13225/cert>



... or follow the link:  
<http://support.automation.siemens.com/cs/ww/en/ps/13224/man>

| Rated LO values                                                                                                        |                  | HO values      |                  | Rated (LO ) input current | Frame Size | Articel no. <sup>1) 2)</sup> |                     | Line fuses, fueuse for branch circuit protection <sup>3)</sup> |       | Listed class J acc. UL 600 V ac A |
|------------------------------------------------------------------------------------------------------------------------|------------------|----------------|------------------|---------------------------|------------|------------------------------|---------------------|----------------------------------------------------------------|-------|-----------------------------------|
| Power (IEC) kW                                                                                                         | Output current A | Power (IEC) kW | Output current A | A                         |            | PM240-2                      | PM240P-2            | acc. IEC/UL Siemens <sup>4)</sup>                              |       |                                   |
| U <sub>in</sub> 3 AC 200 ... 240 V ± 10 %, U <sub>out</sub> 3 AC 0 V ... U <sub>in</sub> * 0.95,                       |                  |                |                  |                           |            | brake output volt. 410 V     |                     |                                                                |       |                                   |
| 11                                                                                                                     | 42               | 7.5            | 35               | 40                        | FSD        | 6SL3210-1PC24 -2ULO          | ---                 | 3NA3822                                                        | 63 A  | 60                                |
| 15                                                                                                                     | 54               | 11             | 42               | 51                        | FSD        | 6SL3210-1PC25 -4ULO          | ---                 | 3NA3824                                                        | 80 A  | 70                                |
| 18.5                                                                                                                   | 68               | 15             | 54               | 64                        | FSD        | 6SL321 x-1PC26 -8ULO         | ---                 | 3NA3830                                                        | 100 A | 90                                |
| 22                                                                                                                     | 80               | 18.5           | 68               | 76                        | FSE        | 6SL3210-1PC28 -8ULO          | ---                 | 3NA3830                                                        | 100 A | 100                               |
| 30                                                                                                                     | 104              | 22             | 80               | 98                        | FSE        | 6SL321 x-1PC31 -1ULO         | ---                 | 3NA3836                                                        | 160 A | 150                               |
| 37                                                                                                                     | 130              | 30             | 104              | 126                       | FSF        | 6SL3210-1PC31 -3ULO          | ---                 | 3NA3140                                                        | 200 A | 175                               |
| 45                                                                                                                     | 154              | 37             | 130              | 149                       | FSF        | 6SL3210-1PC31 -6ULO          | ---                 | 3NA3140                                                        | 200 A | 200                               |
| 55                                                                                                                     | 178              | 45             | 154              | 172                       | FSF        | 6SL321 x-1PC31 -8ULO         | ---                 | 3NA3142                                                        | 224 A | 225                               |
| U <sub>in</sub> 3 AC 380 ... 480 V – 20 %, + 10 %, U <sub>out</sub> 3 AC 0 V ... U <sub>in</sub> * 0.95,               |                  |                |                  |                           |            | brake output volt. 820 V     |                     |                                                                |       |                                   |
| 18.5                                                                                                                   | 38               | 15             | 32               | 36                        | FSD        | 6SL3210-1PE23 -8_LO          | ---                 | 3NA3822                                                        | 63 A  | 60                                |
| 22                                                                                                                     | 45               | 18.5           | 38               | 42                        | FSD        | 6SL3210-1PE24 -5_LO          | ---                 | 3NA3824                                                        | 80 A  | 70                                |
| 30                                                                                                                     | 60               | 22             | 45               | 57                        | FSD        | 6SL3210-1PE26 -0_LO          | 6SL3210-1RE26 -0_LO | 3NA3830                                                        | 100 A | 90                                |
| 37                                                                                                                     | 75               | 30             | 60               | 70                        | FSD        | 6SL321 x-1PE27 -5_LO         | 6SL3210-1RE27 -5_LO | 3NA3830                                                        | 100 A | 100                               |
| 45                                                                                                                     | 90               | 37             | 75               | 86                        | FSE        | 6SL3210-1PE28 -8_LO          | 6SL3210-1RE28 -8_LO | 3NA3832                                                        | 125 A | 125                               |
| 55                                                                                                                     | 110              | 45             | 90               | 104                       | FSE        | 6SL321 x-1PE31 -1_LO         | 6SL3210-1RE31 -1_LO | 3NA3836                                                        | 160 A | 150                               |
| 75                                                                                                                     | 145              | 55             | 110              | 140                       | FSF        | 6SL3210-1PE31 -5_LO          | 6SL3210-1RE31 -5_LO | 3NA3140                                                        | 200 A | 200                               |
| 90                                                                                                                     | 178              | 75             | 145              | 172                       | FSF        | 6SL3210-1PE31 -8_LO          | 6SL3210-1RE31 -8_LO | 3NA3142                                                        | 224 A | 250                               |
| 110                                                                                                                    | 205              | 90             | 178              | 198                       | FSF        | 6SL3210-1PE32 -1_LO          | 6SL3210-1RE32 -1_LO | 3NA3250                                                        | 300 A | 300                               |
| 132                                                                                                                    | 250              | 110            | 205              | 242                       | FSF        | 6SL321 x-1PE32 -5_LO         | 6SL3210-1RE32 -5_LO | 3NA3252                                                        | 315 A | 350                               |
| 160                                                                                                                    | 302              | 132            | 250              | 300                       | FSG        | 6SL3210-1PE33 -0_LO          | ---                 | 3NA3254                                                        | 355 A | 400                               |
| 200                                                                                                                    | 370              | 160            | 302              | 365                       | FSG        | 6SL3210-1PE33 -7_LO          | ---                 | 3NA3260                                                        | 400 A | 500                               |
| 250                                                                                                                    | 477              | 200            | 370              | 470                       | FSG        | 6SL3210-1PE34 -8_LO          | ---                 | 3NA3372                                                        | 630 A | 600                               |
| U <sub>in</sub> 3 AC 500 ... 690 V – 20 %, + 10 %, <sup>5)</sup> U <sub>out</sub> 3 AC 0 V ... U <sub>in</sub> * 0.95, |                  |                |                  |                           |            | brake output volt. 1210 V    |                     |                                                                |       |                                   |
| 11                                                                                                                     | 14               | 7.5            | 11               | 14                        | FSD        | 6SL3210-1PH21 -4_LO          | 6SL3210-1RH21 -4_LO | 3NA3807-6                                                      | 20 A  | 20                                |
| 15                                                                                                                     | 19               | 11             | 14               | 18                        | FSD        | 6SL3210-1PH22 -0_LO          | 6SL3210-1RH22 -0_LO | 3NA3810-6                                                      | 25 A  | 25                                |
| 18.5                                                                                                                   | 23               | 15             | 19               | 22                        | FSD        | 6SL3210-1PH22 -3_LO          | 6SL3210-1RH22 -3_LO | 3NA3812-6                                                      | 32 A  | 30                                |
| 22                                                                                                                     | 27               | 18.5           | 23               | 25                        | FSD        | 6SL3210-1PH22 -7_LO          | 6SL3210-1RH22 -7_LO | 3NA3817-6KJ                                                    | 40 A  | 35                                |
| 30                                                                                                                     | 35               | 22             | 27               | 33                        | FSD        | 6SL3210-1PH23 -5_LO          | 6SL3210-1RH23 -5_LO | 3NA3820-6KJ                                                    | 50 A  | 45                                |
| 37                                                                                                                     | 42               | 30             | 35               | 40                        | FSD        | 6SL321 x-1PH24 -2_LO         | 6SL3210-1RH24 -2_LO | 33NA3822-6                                                     | 63 A  | 60                                |
| 45                                                                                                                     | 52               | 37             | 42               | 50                        | FSE        | 6SL3210-1PH25 -2_LO          | 6SL3210-1RH25 -2_LO | 3NA3824-6                                                      | 80 A  | 80                                |
| 55                                                                                                                     | 62               | 45             | 52               | 59                        | FSE        | 6SL321 x-1PH26 -2_LO         | 6SL3210-1RH26 -2_LO | 3NA3824-6                                                      | 80 A  | 80                                |
| 75                                                                                                                     | 80               | 55             | 62               | 78                        | FSF        | 6SL3210-1PH28 -0_LO          | 6SL3210-1RH28 -0_LO | 3NA3830-6                                                      | 100 A | 100                               |
| 90                                                                                                                     | 100              | 75             | 80               | 97                        | FSF        | 6SL3210-1PH31 -0_LO          | 6SL3210-1RH31 -0_LO | 3NA3132-6                                                      | 125 A | 125                               |
| 110                                                                                                                    | 115              | 90             | 100              | 111                       | FSF        | 6SL3210-1PH31 -2_LO          | 6SL3210-1RH31 -2_LO | 3NA3136-6                                                      | 160 A | 150                               |
| 132                                                                                                                    | 142              | 110            | 115              | 137                       | FSF        | 6SL321 x-1PH31 -4_LO         | 6SL3210-1RH31 -4_LO | 3NA3140-6                                                      | 200 A | 200                               |
| 160                                                                                                                    | 171              | 132            | 144              | 170                       | FSG        | 6SL3210-1PH31 -7CLO          | ---                 | 3NA3244-6                                                      | 250 A | 250                               |
| 200                                                                                                                    | 208              | 160            | 171              | 205                       | FSG        | 6SL3210-1PH32 -1CLO          | ---                 | 3NA3252-6                                                      | 315 A | 300                               |
| 250                                                                                                                    | 250              | 200            | 208              | 250                       | FSG        | 6SL3210-1PH32 -5CLO          | ---                 | 3NA3354-6                                                      | 355 A | 350                               |

<sup>1)</sup> \_ : A = with filter class C2

C = with filter class C3

U = unfiltered unit

<sup>2)</sup> x: 0 = IP 20 unit, 1 = Push-through unit

<sup>3)</sup> For further protective devices refer to: <https://support.industry.siemens.com/cs/ww/en/view/109782705>

<sup>4)</sup> must be installed in the same overall assembly

<sup>5)</sup> for UL applications 3 AC 500 V ... 600 V only

| Voltage            | Maximum motor cable length   |                                   |                                    |                     |                     |
|--------------------|------------------------------|-----------------------------------|------------------------------------|---------------------|---------------------|
|                    | EMC C2                       | No EMC category                   |                                    |                     |                     |
|                    | units with filter integrated | units with or without filter      |                                    |                     |                     |
|                    |                              | without / with one output reactor | with two output reactors in series |                     |                     |
|                    | Shielded                     | Shielded                          | Un-shielded                        | Shielded            | Un-shielded         |
| Frame size FSD/FSE |                              |                                   |                                    |                     |                     |
| 200 V              | 150 m                        | 200 m                             | 300 m                              | 350 m               | 525 m               |
| 400 V              | 150 m                        | 200 m                             | 300 m                              | 350 m               | 525 m               |
| 690 V              | 100 m                        | 200 m                             | 300 m                              | 350 m <sup>2)</sup> | 525 m <sup>2)</sup> |
| Frame size FSF     |                              |                                   |                                    |                     |                     |
| 200 V              | 150 m                        | 300 m                             | 450 m                              | 525 m               | 800 m               |
| 400 V              | 150 m                        | 300 m                             | 450 m                              | 525 m               | 800 m               |
| 690 V              | 150 m <sup>1)</sup>          | 300 m                             | 450 m                              | 525 m               | 800 m               |
| Frame size FSG     |                              |                                   |                                    |                     |                     |
| 400 V              | 150 m<br>300 m <sup>1)</sup> | 300 m                             | 450 m                              | 525 m               | 800 m               |
| 690 V              | 150 m <sup>1)</sup>          | 300 m                             | 450 m                              | 525 m               | 800 m               |

<sup>1)</sup> EMC Category C3 only

<sup>2)</sup> PM240P-2 only

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Edition: 05/2021

| FSD | FSE | FSF | FSG | Contents of delivery                                                   |
|-----|-----|-----|-----|------------------------------------------------------------------------|
| 1   | 1   | 1   | 1   | Frequency Converter                                                    |
| 1   | 1   | 1   | 1   | Compact Operating Instructions                                         |
| 1   | 1   | 1   | 1   | Warning labels                                                         |
| 1   | 1   | 1   | 1   | CSA Warning labels for Canadian plants                                 |
| 1   | 1   | 1   | 1   | EMC connection lug (separating plate)                                  |
| 1   | 1   | 1   | 1   | Shielding plate                                                        |
| 1   | 1   | 1   | 1   | Product liability notes                                                |
| 10  | 10  | 4   | 8   | Torx screws M4 x 10                                                    |
| 8   | 8   | -   | -   | Torx screws M5 x 16                                                    |
| -   | -   | 7   | 10  | Torx screws M10 x 20                                                   |
| 1   | 1   | 1   | 1   | Cable gland 2 pole                                                     |
| 4   | 4   | 4   | 5   | Hose clamps                                                            |
| 1   | 1   | -   | -   | Contact protection for power connection – if power connection not used |

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A 5 E 3 5 0 8 8 6 4 8