



# MOTOR PROTECTION PLUGS CEE PLUGS WITH SWITCH



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Results without motor protection plugs:

## Do you know the problem of...

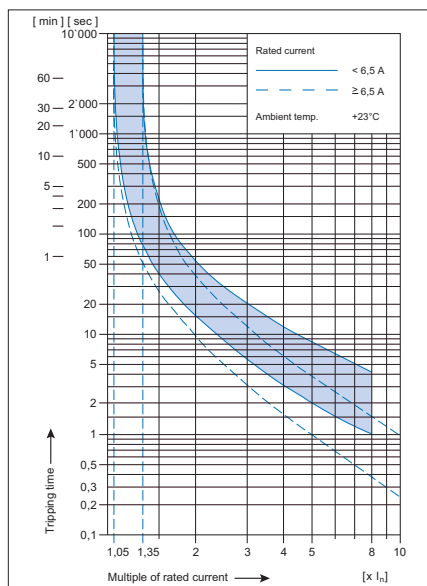
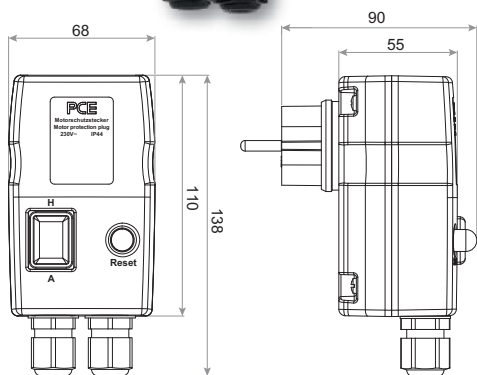
- ...a destroyed engine?
- ...a defective arrangement?
- ...a burnt through winding by overloading?
- ...mechanical damage on account of wrong rotation direction?
- ...secondary damage such as flooding?

## Fields of Application:

- **Pumps** Submerged pumps, mobile pumping plants, pumps for construction sites, water pumps,...
- **Agitators** Mobile machines for mixing (building site machines),...
- **Blowers** Ventilators, space ventilation,...
- **Compressors** Breathing air compressors, mobile compressors,...
- **Conveyors** Rolling and chain conveyors, band-conveyors,...
- **Construction machines** Circular saws, hand tools,...
- **Extractions** Mobile laboratory ventilation, smoke extraction,...
- **Industrial motors**



# Motor protection plugs 16A 230V 3,0 - 8,0A



## Motor protection with safety plug 16A 230V for all single-phase motors

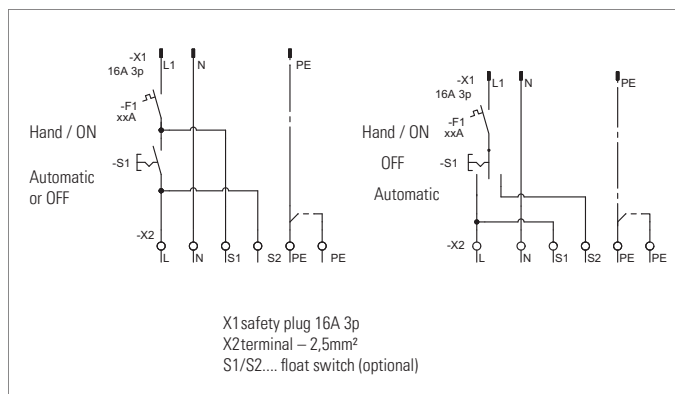
### Technical data:

- Enclosure material: PC/ABS
- Protection degree: IP44
- IK standard acc. EN50102: IK09
- Temperature range: -5°C to +40°C
- large connection area

### Designs:

- with rocker switch **ON/OFF (I-0)** or **HAND OPERATION/AUTOMATIC (H-A)** for the use of a float switch\*
- with rocker switch **HAND OPERATION/OFF/AUTOMATIC (I - 0 - II)** change between continuous duty, Off and Automatic for the use of a float switch\*
- circuit breaker with external reset switch currents: 3A, 4A, 5A, 6,5A, 8A
- cable entry:  
3-8,0A: 2xM16 cable glands (ø 5-10mm)  
1x marking for break through enlargement up to ø 20mm

- The motor protection plug 16A 230V provides reliable protection for overload. It is used mainly for switching and the protection of single-phase AC motors on pumps, circular saws and industrial motors.



## Motor protection plug 16A 230V

- Hand-operation-Automatic or ON-OFF or
- Hand operation-OFF – Automatic
- cable gland: 2xM16 (5-10mm)

**IP44** splashproof

setting range

- 3,0A
- 4,0A
- 5,0A
- 6,5A
- 8,0A

230V~ 50/60Hz	
HAND-AUTOMATIC or ON-OFF	HAND-OFF-AUTOMATIC
56103000	56103001
56104000	56104001
56105000	
56106000	
56108000	

\* Float switch see page 223

## Motor protection plugs 16A 230V 10 - 16A

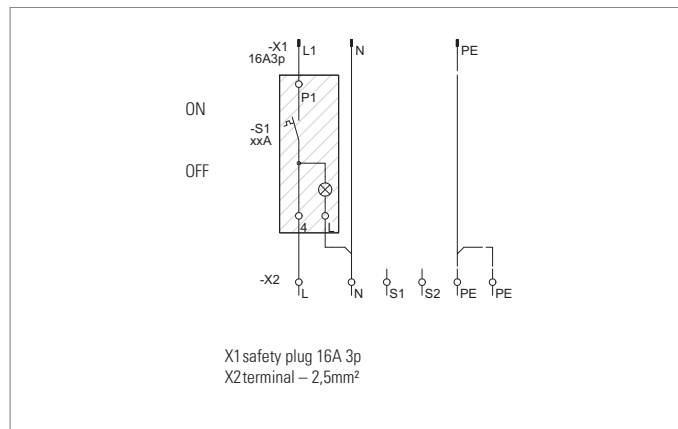
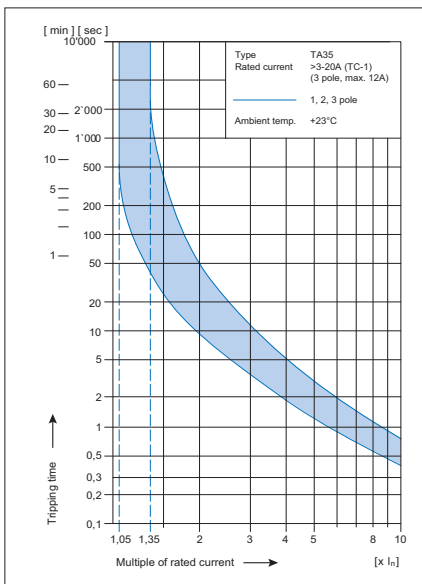
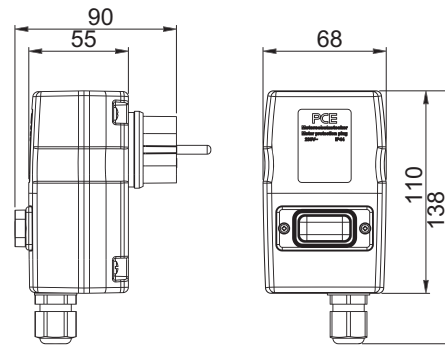
### Motor protection with safety plug 16A 230V for all single-phase motors

#### Technical data:

- Enclosure material: PC/ABS
- Protection degree: IP44
- IK standard acc. EN50102: IK09
- Temperature range: -5°C to +40°C
- large connection area

#### Designs:

- with rocker switch ON/OFF which lights green when switched on
- change between continuous duty, Off and Automatic for the use of a float switch\*
- currents: 10A, 12A, 14A, 15A, 16A
- cable entry:  
10–16A: 1xM16 cable glands (ø 5–10mm)  
1x marking for break through enlargement up to ø 16mm



### Motor protection plug 16A 230V

- ON-OFF
- cable gland: M16 (5–10mm)

**IP44** splashproof

#### setting range

**10A**  
**12A**  
**14A**  
**15A**  
**16A**

230V~ 50/60Hz

**ON-OFF**

**56110004**

**56112004**

**56114004**

**56115004**

**56116004**



# Motor protection plug with capacitor

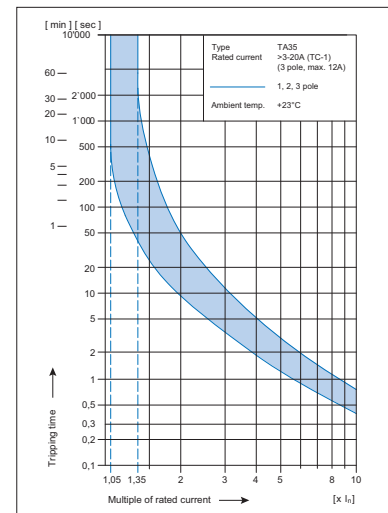
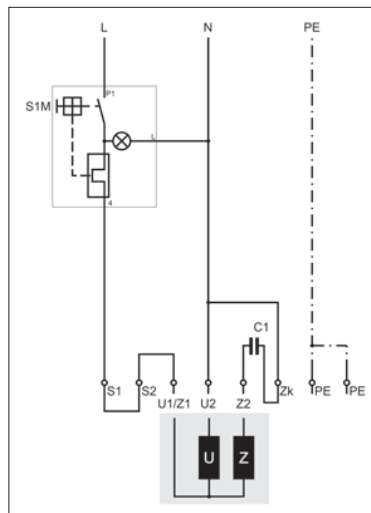
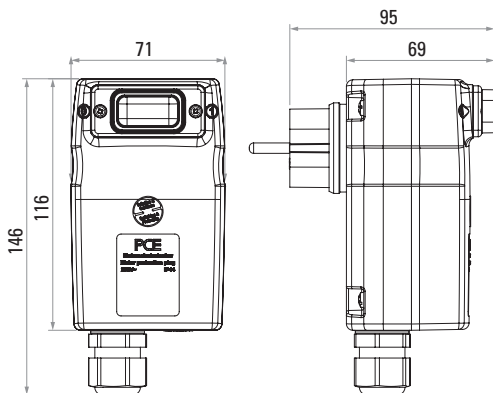
## OFF/ON



## Motor protection plug with capacitor 16A 230V for all single-phase motors

- Technical data:**
  - Enclosure material: PC/ABS
  - Protection degree: IP44
  - IK standard acc. EN50102: IK09
  - Temperature range: -5°C to +40°C
  - large connection area
  - connecting terminal: 2,5mm<sup>2</sup>

- Designs:**
  - with rocker switch **ON/OFF (0-1)**
  - switch illuminated
  - plug with dual earthing system
  - currents: 4A / 6A / 8A / 10A
  - integrated capacitor: 20µF / 25µF / 30µF
  - cable entry: M20



switch S1M (0/1)	0	1
appliance: e.g. pump	0	1

S1M    0 = OFF    1 = ON    illumination (green) = power supply existing

## Motor protection plug with integrated capacitor

- OFF/ON
- cable gland: M20

**IP44**    splashproof

Amp.	230V~ 50/60Hz	
	C = 20 µF	C = 30 µF
4,0A	561040C2001	561040C3001
6,0A	561060C2001	561060C3001
8,0A	561080C2001	561080C3001
10,0A	561100C2001	561100C3001

Other versions on request!

## Motor protection plug with capacitor

### Motor protection plug with capacitor 16A 230V for all single-phase motors

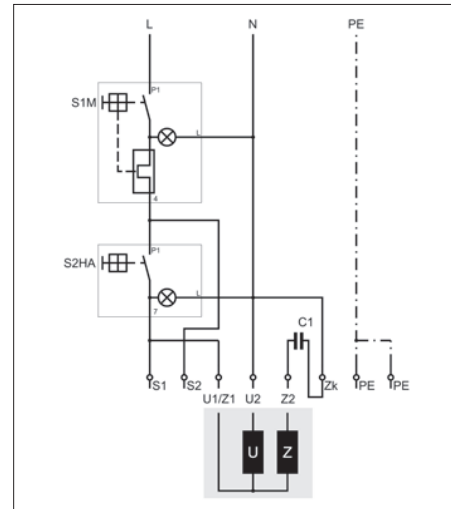
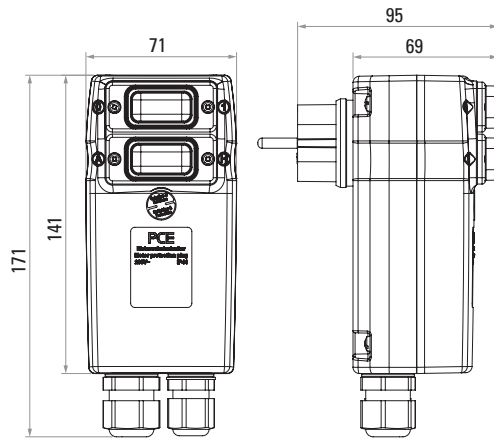
■ OFF/ON – HAND/AUTOMATIC

#### ■ ■ Technical data:

- Enclosure material: PC/ABS
- Protection degree: IP44
- IK standard acc. EN50102: IK09
- Temperature range: -5°C to +40°C
- large connection area
- connecting terminal: 2,5mm<sup>2</sup>

#### ■ ■ Designs:

- with rocker switch **ON/OFF** (0-1) and **HAND/AUTOMATIC** (H/A)
- switch illuminated
- plug with dual earthing system
- currents: 4A / 6A / 8A / 10A
- integrated capacitor: 20µF / 25µF / 30µF
- cable entry: M20 / M16



switch: S1M (0/1)	0	0	0	0	1	1	1	1
switch: S2HA (H/A)	A	A	H	H	A	A	H	H
external circuit element(0/1) e.g. float switch	0	1	0	1	1	0	1	0
appliance: e.g. pump	0	0	0	0	1	0	1	1

S1M	0 = OFF	1 = ON	illumination (green) = power supply existing
S2HA	H = HAND	A = AUTOMATIC	illumination (yellow) = appliance in operating state

### Motor protection plug with integrated capacitor

- OFF/ON and HAND/AUTOMATIC
- cable gland: M20 and M16

**IP44** splashproof

**Amp.**

**4,0A**  
**6,0A**  
**8,0A**  
**10,0A**

230V~ 50/60Hz	
C = 20 µF	C = 30 µF
<b>561040C2003</b>	<b>561040C3003</b>
<b>561060C2003</b>	<b>561060C3003</b>
<b>561080C2003</b>	<b>561080C3003</b>
<b>561100C2003</b>	<b>561100C3003</b>


\* Float switch see page 223



## CEE plugs with switch



### CEE-ON/OFF-Switch ML0-Plug

- ON/OFF switch: AC22A, 10kA 
- Cable gland: 16A: 4p M25, 5p M25  
32A: 4p M25, 5p M32
- 400V~ 50/60Hz 4p+5p=6h


**IP44** splashproof

without operating display  
with operating display  
with holder

16A		32A	
4p	5p	4p	5p
<b>54014530</b>	<b>54015530</b>	<b>54024530</b>	<b>54025530</b>
<b>540145301</b>	<b>540155301</b>	<b>540245301</b>	<b>540255301</b>
<b>53xxxxxx</b>	<b>53xxxxxx</b>	<b>53xxxxxx</b>	<b>53xxxxxx</b>



### CEE-ON/OFF-Switch ML0-plug with phase inverter

- ON/OFF switch: AC22A, 10kA 
- Cable gland: 16A: 4p M25, 5p M25  
32A: 4p M25, 5p M32
- 400V~ 50/60Hz 4p+5p=6h


**IP44** splashproof

without display  
with operating display  
with rotary field check  
with holder

16A		32A	
4p	5p	4p	5p
<b>54714530</b>	<b>54715530</b>	<b>54724530</b>	<b>54725530</b>
<b>547145301</b>	<b>547155301</b>	<b>547245301</b>	<b>547255301</b>
<b>547145303</b>	<b>547155303</b>	<b>547245303</b>	<b>547255303</b>
<b>53xxxxxx</b>	<b>53xxxxxx</b>	<b>53xxxxxx</b>	<b>53xxxxxx</b>



### CEE-Reversing switch CA10 (CA25) - plug

- AC22A 
- Reversing switch: 16A CA10, 32A CA25
- Cable gland: 16A: 4p M25, 5p M25  
32A: 4p M25, 5p M32
- 400V~ 50/60Hz 4p+5p=6h

**IP44** splashproof

without operating display  
with operating display  
with holder

16A		32A	
4p	5p	4p	5p
<b>54014610</b>	<b>54015610</b>	<b>54024625</b>	<b>54025625</b>
<b>540146101</b>	<b>540156101</b>	<b>540246251</b>	<b>540256251</b>
<b>53xxxxxx</b>	<b>53xxxxxx</b>	<b>53xxxxxx</b>	<b>53xxxxxx</b>

Other versions on request !

## CEE-motor protection plugs



### ■ ■ Technical data:

- housing material: PC/ABS
- protection degree IP44
- IK standard acc. EN50102: IK09
- all designs available with or without holder
- large connection area

### ■ ■ Advantages:

- reliable means of protection against thermal overloading and short circuiting
- all protection switches feature thermal overload and magnetic short circuit triggering
- short circuit capacity 50kA
- simple one-hand operation even with gloves

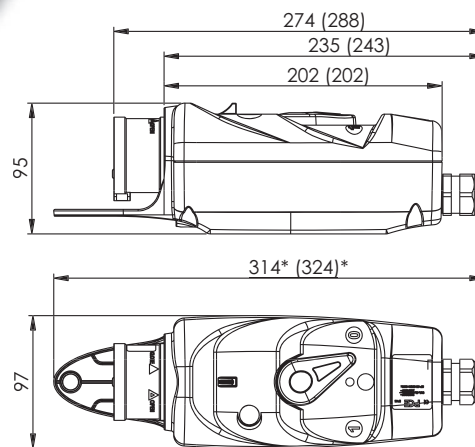
### ■ ■ Rotating field check:

Displays a field rotating in anti-clockwise direction.

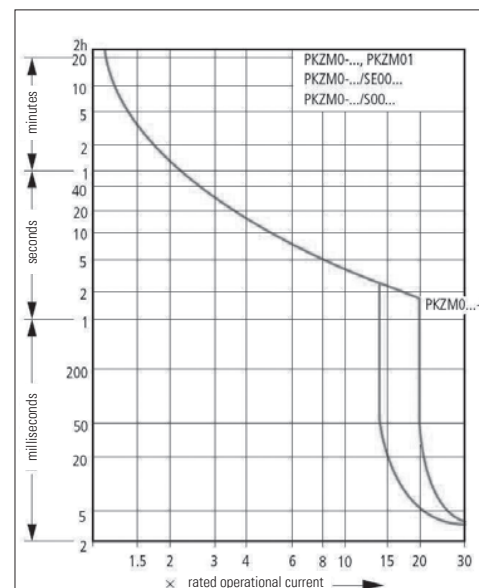
### ■ ■ Operating display:

Indicates the voltage supply of two phases of the connector.

- ■ **Main field of application: Switching and protection of AC 3-phase motors with outputs of up to 15kW such as industrial motors and those fitted to pumps and circular cold saws etc.**



- dimensions: 16A (32A)
- \* dimensions only valid for design with holder





# CEE-motor protection plugs PKZM0 with rotary lever



## CEE-Motor protection plug PKZM0

- cable gland: 16A 4p and 5p M25  
32A 4p M25, 32A 5p M32
- 400V~ 50/60Hz 4p+5p=6h
- 500V version on request

IP44 splashproof

setting range	16A / 400V / 6h		32A / 400V / 6h	
	4p	5p	4p	5p
1,0- 1,6A	54014016	54015016	54024016	54025016
1,6- 2,5A	54014025	54015025	54024025	54025025
2,5- 4,0A	54014040	54015040	54024040	54025040
4,0- 6,3A	54014063	54015063	54024063	54025063
6,3- 10A	54014100	54015100	54024100	54025100
10- 16A	54014160	54015160	54024160	54025160
16- 20A			54024200	54025200
20- 25A			54024250	54025250
25- 32A			54024320	54025320
with holder	53xxxxxx	53xxxxxx	53xxxxxx	53xxxxxx

## CEE-Motor protection plug PKZM0 with operating display



- with operating display
- cable gland: 16A 4p and 5p M25  
32A 4p M25, 32A 5p M32
- 400V~ 50/60Hz 4p+5p=6h
- 500V version on request

IP44 splashproof

setting range	16A / 400V / 6h		32A / 400V / 6h	
	4p	5p	4p	5p
1,0- 1,6A	540140161	540150161	540240161	540250161
1,6- 2,5A	540140251	540150251	540240251	540250251
2,5- 4,0A	540140401	540150401	540240401	540250401
4,0- 6,3A	540140631	540150631	540240631	540250631
6,3- 10A	540141001	540151001	540241001	540251001
10- 16A	540141601	540151601	540241601	540251601
16- 20A			540242001	540252001
20- 25A			540242501	540252501
25- 32A			540243201	540253201
with holder	53xxxxxx	53xxxxxx	53xxxxxx	53xxxxxx

## CEE-Motor protection plug PKZM0 with phase inverter and rotation field check



- with phase inverter and rotation field check
- cable gland: 16A 4p and 5p M25  
32A 4p M25, 32A 5p M32
- 400V~ 50/60Hz 4p+5p=6h
- 500V version on request

IP44 splashproof

setting range	16A / 400V / 6h		32A / 400V / 6h	
	4p	5p	4p	5p
1,0- 1,6A	547140163	547150163	547240163	547250163
1,6- 2,5A	547140253	547150253	547240253	547250253
2,5- 4,0A	547140403	547150403	547240403	547250403
4,0- 6,3A	547140633	547150633	547240633	547250633
6,3- 10A	547141003	547151003	547241003	547251003
10- 16A	547141603	547151603	547241603	547251603
16- 20A			547242003	547252003
20- 25A			547242503	547252503
25- 32A			547243203	547253203
with holder	53xxxxxx	53xxxxxx	53xxxxxx	53xxxxxx

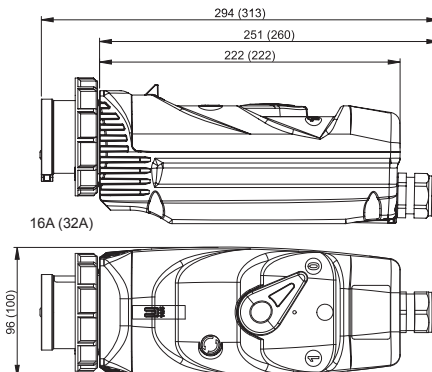
Other versions on request!

# CEE-motor protection plugs PKZM0 (IP67) with rotary lever

## CEE-Motor protection plug PKZM0 with phase inverter and rotation field check IP67

- with phase inverter and rotation field check
- cable gland: 16A 5p M25
- 32A 5p M32
- 400V~ 50/60Hz 5p=6h
- 500V version on request
- **IP67** watertight

setting range	16A / 400V / 6h		32A / 400V / 6h	
	5p		5p	
1,0- 1,6A	<b>587150163</b>		<b>587250163</b>	
1,6- 2,5A	<b>587150253</b>		<b>587250253</b>	
2,5- 4,0A	<b>587150403</b>		<b>587250403</b>	
4,0- 6,3A	<b>587150633</b>		<b>587250633</b>	
6,3- 10A	<b>587151003</b>		<b>587251003</b>	
10- 16A	<b>587151603</b>		<b>587251603</b>	
16- 20A			<b>587252003</b>	
20- 25A			<b>587252503</b>	
25- 32A			<b>587253203</b>	



# CEE-motor protection plugs contactor up to 7,5kW



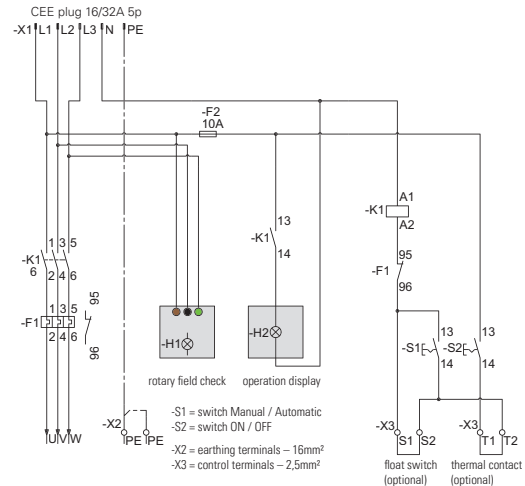
## CEE-Motor protection plug contactor up to 5,5kW (16A) and 7,5kW (32A)

### Technical data:

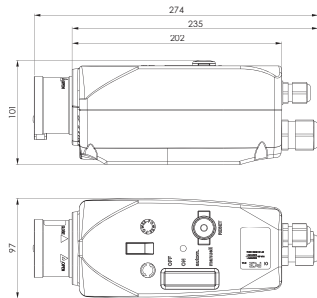
- enclosure material: PC/ABS
- protection degree: IP44
- IK standard acc. to EN50102: IK09
- temperature range: -25° C to +40°C
- large connection area

### Designs:

- with rocker switch ON/OFF and MANUAL/AUTOMATIC for the use of a float switch\*
- with phase inverter plug
- rotation field check – anticlockwise phase sequence
- operating display – shows the voltage supply of the contactor and therefore of the consumer load
- external reset switch for the motor protection relay
- cable entry:
  - bottom part: 1x cable gland M25 (ø13–18mm) at 16A and M32 (ø13-20mm) at 32A
  - top part: 1x cable gland M16 (ø4–10mm) for float switch (separate drill hole marking for a further M16 cable gland)



The CEE motor protection plug up to 7,5 kW provides reliable protection for thermal overloads and short circuits. It is used mainly for switching and the protection of three-phase AC motors up to 7,5 kW (400V) on pumps, circular saws and industrial motors etc...



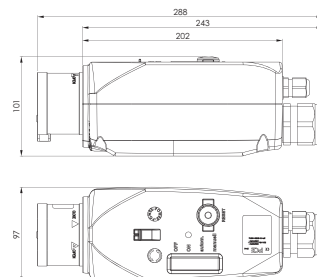
### CEE-Motor protection plug with contactor 16A 5p 400V

- with phase inverter plug
- with operation display
- with rotation field check
- cable gland M25 (13–18mm)



IP44 splashproof

setting range	contactor (AC3)	16A
1,0- 1,6A	4,0 kW	5571501000
1,6- 2,4A	4,0 kW	5571501600
2,4- 4,0A	4,0 kW	5571502400
4,0- 6,0A	4,0 kW	5571506000
6,0-10A	5,5 kW	5571510000
9,0-12A	5,5 kW	5571512000
12- 16A	7,5 kW	5571516000



### CEE-Motor protection plug with contactor 32A 5p 400V

- with phase inverter plug
- with operation display
- with rotation field check
- cable gland M32 (13–20mm)



IP44 splashproof

setting range	contactor (AC3)	32A
6,0-10A	7,5 kW	5572510000
9,0-12A	7,5 kW	5572512000
12- 16A	7,5 kW	5572516000

\* Float switch see page 223

# CEE-motor protection plugs contactor up to 15 kW

## CEE-Motor protection plug contactor up to 15 kW (32A)

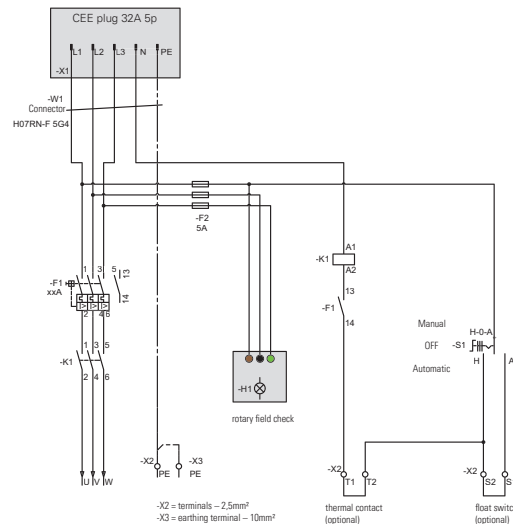
### Technical data:

- enclosure material: solid rubber
- protection degree: IP44 (IP66 on request)
- dimensions: HxWxD = 260x165x90mm
- temperature range: -25°C to +40°C
- large connection area

### Designs:

- with rotary switch I = hand operation, 0 = Off, II = automatic operation
- 2m cable H07RN-F 5G4 with phase inverter plug 32A 5p 400V
- rotation field check – anticlockwise phase sequence
- reset switch behind transparent window
- float switch on request
- level control system and dipped electrodes on request
- cable entry: 1x cable gland M32 (ø13–20mm)  
2x cable glands M16 (ø5–10mm) for float switch and thermo switch
- operation display contactor

- ■ **The CEE motor protection plug up to 15kW provides reliable protection for thermal overloads and short circuits. It is used mainly for switching and the protection of three-phase AC motors on pumps, circular saws and industrial motors...**



### CEE-Motor protection plug with contactor up to 15 kW (32A)

- with rotary switch I-0-II
- with phase inverter plug
- with rotation field check
- cable gland: M32 (13–20mm)  
2xM16 (5–10mm)



IP44 splashproof

setting range	contactor	32A
16- 20A	12,5 kW	<b>9216211</b>
20- 25A	12,5 kW	<b>9216210</b>
25- 32A	15,0 kW	<b>9216212</b>

### Float switch

#### Technical data:

- protection degree: IP68
- temperature range: -5°C to +40°C
- switching capacity: 250VAC 10(8)A
- durability: > 50.000 cycles
- beam angle ± 45°
- hysteresis: min. 140mm to max. 400mm

#### Designs:

- changer (top: brown-grey, bottom: brown-black)
- hot plate welded housing
- elastomer – sealed cable entry
- cable: Nexans H05RN8-F 4G1mm<sup>2</sup> black (10m or 20m)



with 10m cable  
with 20m cable  
counterweight

**1023011**  
**1023012**  
**1023031**

