

# Phase inverter ProTOP

Part number: 3322



**MENNEKES**  
Elektrotechnik GmbH & Co. KG

Aloys-Mennekes-Straße 1  
57399 Kirchhundem  
GERMANY

[www.MENNEKES.org](http://www.MENNEKES.org)

# Product Description

- screw connection technology
- enclosure with thread lock and safety slide
- protection against kinking
- strain relief
- cable gland and sealing
- Due to different manufacturing processes, the item may be delivered with either an adhesive or a laser-engraved nameplate.

# Technical Details

| Phase inverter ProTOP                                                                   | 3322                            |
|-----------------------------------------------------------------------------------------|---------------------------------|
| Product serie                                                                           | ProTOP                          |
| Ampere                                                                                  | 32A                             |
| Number of poles                                                                         | 5p                              |
| Clock position                                                                          | 6h                              |
| Nominal voltage AC                                                                      | 400V                            |
| Nominal frequency                                                                       | 50 - 60 Hz                      |
| Protection type IP                                                                      | IP44                            |
| Contact carrier                                                                         | standard                        |
| Connection                                                                              | screw terminals                 |
| Contact screw drive                                                                     | PZ2, slot                       |
| Tightening torque connection terminal for cable cross-section 2,5 - 4,0 mm <sup>2</sup> | 0.8 Nm                          |
| Tightening torque connection terminal for cable cross-section 6,0 mm <sup>2</sup>       | 1.2 Nm                          |
| Recommended wire end treatment for supply cable connection terminal                     | ferrule square gasproof crimped |
| Strip length jacket                                                                     | 70 mm                           |
| Strip length conductor                                                                  | 12 - 17 mm                      |
| Phase inverter                                                                          | with phase inverter             |
| Pilot contact                                                                           | without pilot contact           |
| Conductor cross-section min.                                                            | 2.5 mm <sup>2</sup>             |
| Conductor cross-section max.                                                            | 6 mm <sup>2</sup>               |
| Cable kink protection                                                                   | integrated in cable gland       |
| Protective grommet                                                                      | without protective grommet      |
| Protective cap                                                                          | without protective cap          |

|                             |               |
|-----------------------------|---------------|
| Phase inverter ProTOP       | 3322          |
| Militärausführung           | nein          |
| Weight (net)                | 300 g         |
| Packaging unit              | 10 pcs        |
| Quantity per pallet         | 660 pcs       |
| EAN / identification number | 4015394215530 |

| Permissible ambient conditions  |        |       |
|---------------------------------|--------|-------|
|                                 | Min.   | Max.  |
| Permissible ambient temperature | -25 °C | 40 °C |

| Material properties |                                         |
|---------------------|-----------------------------------------|
| Cover               | PA6 red [similar RAL 3013]              |
| Front part          | PA6 red [similar RAL 3013]              |
| Clamp basket        | PA6 natural colour [no RAL colour code] |
|                     | TPE natural colour [no RAL colour code] |
| Fastening           | PA6 squirrel grey [similar RAL 7000]    |

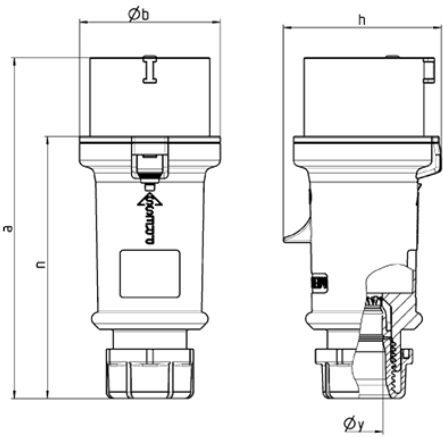
| Material resistance                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------|
| The material resistance overview can be found on the website in the section “Knowledge” - “Product knowledge” - “Materials”. |

| Material and environmental properties |     |
|---------------------------------------|-----|
| RoHS 2011/65/EU incl. 2015/863/EU     | ✓   |
| POP regulation (EU) 2019/1021         | ✓   |
| Halogen-free                          | yes |

#### Regulations and Standards

|                           |                         |
|---------------------------|-------------------------|
| Norm                      | DIN EN IEC 60309-2      |
| Declaration of Conformity | CE                      |
| Test label                | CB Zertifikat, VDE, EAC |

# Dimensional Drawing



| Drawing<br>2 MB 214      | Amp.<br>Poles | 16   |       |       | 32   |      |     |
|--------------------------|---------------|------|-------|-------|------|------|-----|
|                          |               | 3    | 4     | 5     | 3    | 4    | 5   |
| Dim. in mm               | a             | 148  | 160   | 160   | 197  | 197  | 197 |
|                          | b             | 55   | 65.6  | 65.6  | 75   | 75   | 75  |
|                          | h             | 61   | 72.5  | 72.5  | 80.5 | 80.5 | 85  |
|                          | n             | 112  | 123.5 | 123.5 | 152  | 152  | 152 |
|                          | y             | 14.5 | 16    | 16    | 22   | 22   | 22  |
| Terminal for cond. cross |               | 1    | 1     | 1     | 2.5  | 2.5  | 2.5 |
| section (mm²) min.-max.  |               | —2.5 | —2.5  | —2.5  | —6   | —6   | —6  |