

# CMBSP07

## Sockets and plugs

- Group IIC
- Zone 1, 2, 21, 22
- Plugs and sockets made of GRP material
- Enhanced operational safety
- Available in a wide range of current ratings



## Series CMBSP07... Sockets and plugs - plastic material

The CMBSP07 series increased-safety GRP plugs and sockets are available in 16A, 32A, 63A, and 125A versions with 3, 4, or 5 poles. Thanks to the interlocked switch-disconnector, the plug can be removed only after the power switch has been turned off, and the power switch can be turned on only after the plug has been correctly inserted.

The plug pin, when mated with the socket contact, features a spring-loaded elastic element that not only makes the electrical contacts self-cleaning, but also ensures low contact/insertion resistance and limited temperature rise. In addition, it minimizes the insertion and extraction force required.

### Sectors of application:



Petroleum refineries



Chemical and petrochemical plants



Onshore facilities



Offshore facilities



Petroleum loading/unloading pontoons



Low temperatures



Fuel storage facilities



Agribusiness facilities

### CERTIFICATION DATA

#### Classification:

Group II

Category 2GD

#### Installation: EN 60079.14

zone 1 - zone 2 (Gas)

zone 21 - zone 22 (Dust)

#### Marking:

CE 0722 Ex II 2 GD Ex db eb IIC T6/T5/T4 Gb; Ex tb IIIC T80°C Db

#### Certificate:

ATEX CY 25 ATEX 0207540X

IEC Ex IECEX CQM 25.0032X

INMETRO DNV 25.0219X

For all IEC Ex and INMETRO certification data, download the certificate from [www.cortemgroup.com](http://www.cortemgroup.com)

#### Standards:

CENELEC EN and European Directive 2014/34/EU.  
IEC 60079-0: 2017, IEC 60079-1: 2014, IEC 60079-31: 2022, IEC 60079-7:2017  
RoHS Directive 2002/95/EC.

#### Temperature class:

Gas

16A

T6/T5

32A

T5

63A

T5/T4

125A

T4

#### Surface temperature:

Dust

16A, 32A, 63A, 125A

T80°C

#### Amb. Temperature:



-45°C +50°C (+65°C)



(see the table in the certificate)

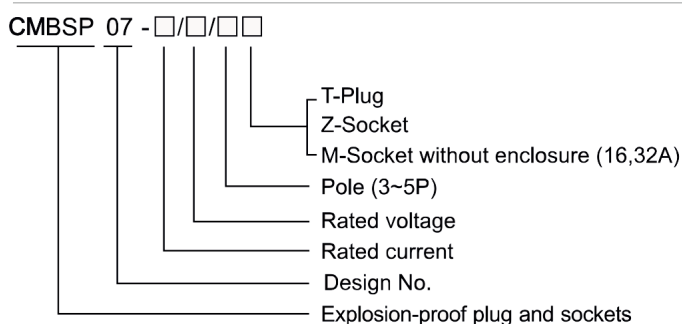
#### Degree of protection:

IP66

## Series CMBSP07... Sockets and plugs - plastic material



### CODE SELECTION



### MECHANICAL AND ELECTRICAL FEATURES

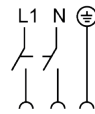
|                    |                                                                                            |                                                       |
|--------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Enclosure material | Socket enclosure: GRP, resistant to 7J impact, antistatic;<br>Plug enclosure: Nylon (PA66) |                                                       |
| Exposed fastener   | Stainless steel                                                                            |                                                       |
| Rated voltage      | 16A                                                                                        | 16A, 32A, 63A, 125A                                   |
|                    | 110~130V AC                                                                                | 200~250V AC, 380~415V AC,<br>480~500V AC, 600~690V AC |
| Rated current      | 16A, 32A, 63A, 125A                                                                        |                                                       |

| Cable entries                       |  | 16A                                     | 32A              | 63A               | 125A                 |
|-------------------------------------|--|-----------------------------------------|------------------|-------------------|----------------------|
| Socket inlet thread                 |  | 2-M25X1.5                               | 2-M40X1.5        | 2-M50X1.5         | 2-M63X1.5            |
| Outer diameter of socket cable (mm) |  | φ 8~ φ 14                               | φ 15~ φ 26       | φ 19~ φ 36        | φ 37~ φ 44           |
| Outer diameter of plug cable (mm)   |  | 16A/3: φ 7~ φ 16<br>16A/4(5): φ 9~ φ 19 | φ 12~ φ 28       | φ 19~ φ 28        | φ 34~ φ 53           |
| Wire diameter                       |  | 2.5~4mm <sup>2</sup>                    | 6mm <sup>2</sup> | 16mm <sup>2</sup> | 35,50mm <sup>2</sup> |
| Weight (kg)                         |  | 1.9                                     | 2.8              | 9.9               | /                    |

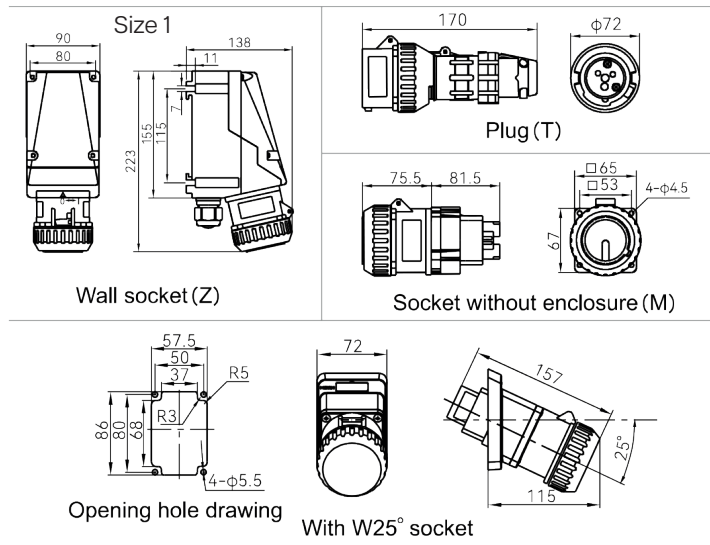
## Series CMBSP07... Sockets and plugs - plastic material

### 4 Outline and Installation Dimension, Wiring Diagram (Dimensions in mm)

#### Product Version (16A/3P)

| CMBSP07-16/3                                                                          | Clock h and voltage                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  (Z) |  110~130V<br>1P+N+PE<br>Yellow                                                                                                  |
|  (T) |  200~250V<br>1P+N+PE<br>Blue                                                                                                    |
|  (M) | <b>Wiring Diagram (16A/3P)</b><br><br> 1P+N+PE |

#### Outline and Installation Dimension (16A/3P)



#### Product Version (16A/4P)

| CMBSP07-16/4                                                                            | Clock h and voltage                                                                                            |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
|  (Z)  |  200~250V<br>3P+PE<br>Blue   |
|  (T) |  380~415V<br>3P+PE<br>Red   |
|  (M) |  480~500V<br>3P+PE<br>Black |
|                                                                                         |  600~690V<br>3P+PE<br>Black |

#### Outline and Installation Dimension (16A/4(5)P)

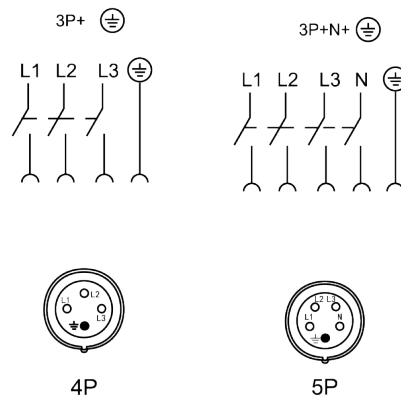
| Pole   | φD(mm) |
|--------|--------|
| 3P+⊕   | 76.5   |
| 3P+N+⊕ | 84     |

#### Product Version (16A/5P)

| CMBSP07-16/5                                                                            | Clock h and voltage                                                                                              |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
|  (Z) |  200~250V<br>3P+N+PE<br>Blue  |
|  (T) |  380~415V<br>3P+N+PE<br>Red   |
|  (M) |  480~500V<br>3P+N+PE<br>Black |
|                                                                                         |  600~690V<br>3P+N+PE<br>Black |

#### Wiring Diagram (16A/4(5)P)



# Series CMBSP07... Sockets and plugs - plastic material

## Product Version (32A/4P)

| CMBSP07-32/4                                                                        | Clock h and voltage                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |  200~250V <br>3P+PE<br>Blue<br>h9      |
|                                                                                     |  380~415V <br>3P+PE<br>Red<br>h6       |
|    |  480~500V <br>3P+PE<br>Black<br>h7     |
|  |  600~690V <br>3P+PE<br>Black<br>h5 |

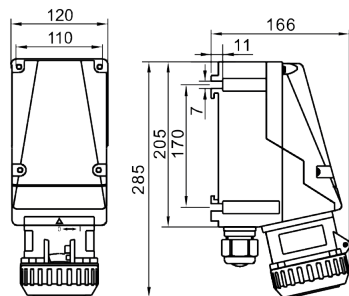
## Product Version (32A/5P)

| CMBSP07-32/5                                                                         | Clock h and voltage                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |  200~250V <br>3P+N+PE<br>Blue<br>h9      |
|                                                                                      |  380~415V <br>3P+N+PE<br>Red<br>h6       |
|    |  480~500V <br>3P+N+PE<br>Black<br>h7     |
|  |  600~690V <br>3P+N+PE<br>Black<br>h5 |

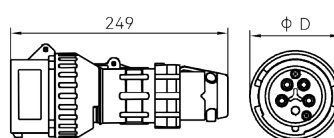
## Outline and Installation Dimension (32A/4(5)P)

| Pole    | φ D(mm) |
|---------|---------|
| 2P、2P+⊕ | 95      |
| 3P+⊕    | 95      |
| 3P+N+⊕  | 100     |

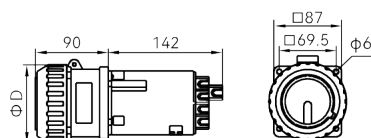
Size 3



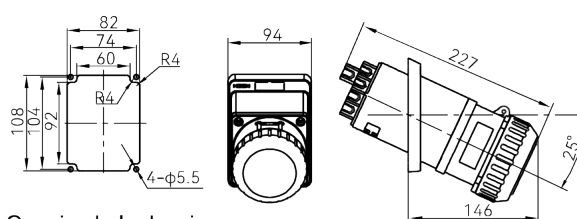
Wall socket (Z)



Plug (T)



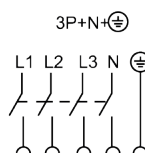
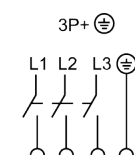
Socket without enclosure (M)



Opening hole drawing

With W25° socket

## Wiring Diagram (32A/4(5)P)



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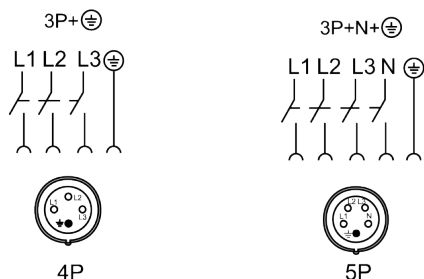
### Product Version (63A/4P)

| CMBSP07-63/4                                                                                                             | Clock h and voltage                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Wall socket (Z)</p> <p>Plug (T)</p> |  200~250V <br>3P+PE<br>Blue<br>h9  |
|                                                                                                                          |  380~415V <br>3P+PE<br>Red<br>h6   |
|                                                                                                                          |  480~500V <br>3P+PE<br>Black<br>h7 |
|                                                                                                                          |  600~690V <br>3P+PE<br>Black<br>h5 |

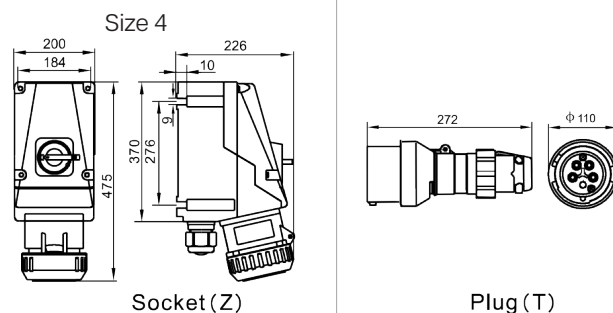
### Product Version (63A/5P)

| CMBSP07-63/5                                                                                                              | Clock h and voltage                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Wall socket (Z)</p> <p>Plug (T)</p> |  200~250V <br>3P+N+PE<br>Blue<br>h9  |
|                                                                                                                           |  380~415V <br>3P+N+PE<br>Red<br>h6   |
|                                                                                                                           |  480~500V <br>3P+N+PE<br>Black<br>h7 |
|                                                                                                                           |  600~690V <br>3P+N+PE<br>Black<br>h5 |

### Wiring Diagram (63A/4(5)P)



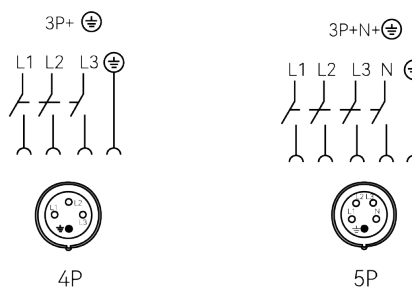
### Outline and Installation Dimension (63A/4(5)P)



### Product Version[125A/4(5)P]

| CMBSP07-125/4                                                                                                              | Clock h and voltage                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Wall socket (Z)</p> <p>Plug (T)</p> |  220~250V <br>3P+PE<br>Blue<br>h9              |
|                                                                                                                            |  380~415V <br>3P+PE<br>Red<br>h6               |
|                                                                                                                            |  480~500V <br>3P+PE<br>Black<br>h7             |
|                                                                                                                            |  600~690V <br>3P+PE<br>Black<br>h5             |
| CMBSP07-125/5                                                                                                              | Clock h and voltage                                                                                                                                                                                                  |
|                                                                                                                            |  220/380V <br>240/450V<br>3P+N+PE<br>Red<br>h6 |

### Wiring Diagram[125A/4(5)P]



### Outline and Installation Dimension [125A-4(5)P]

