

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

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

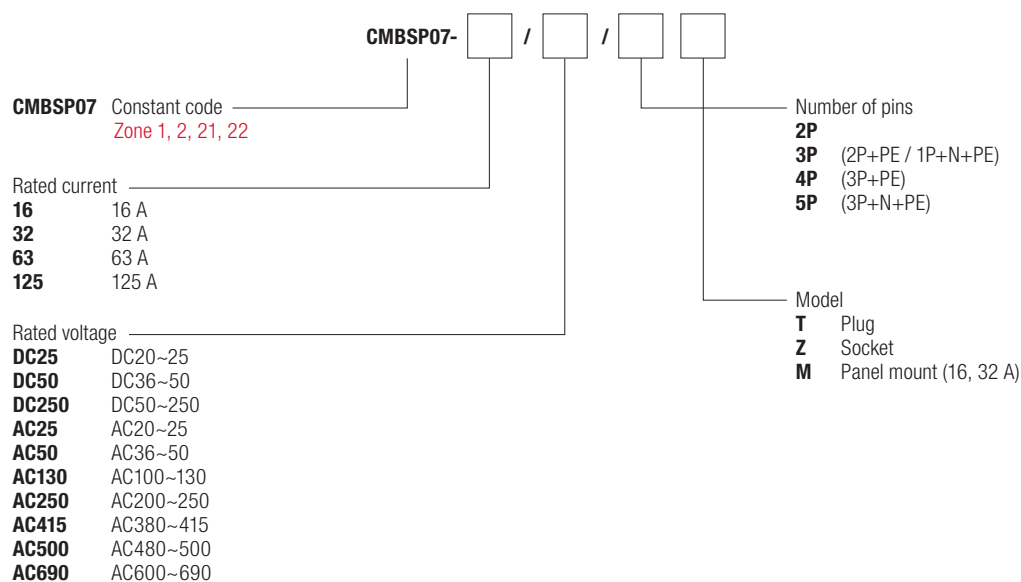


MECHANICAL AND ELECTRICAL FEATURES

Enclosure material:	Socket enclosure: GRP, resistant to 7J impact, antistatic Plug enclosure: Nylon (PA66)
Rated voltage:	DC20~25, DC36~50, DC50~250, AC20~25, AC36~50, AC100~130, AC200~250 AC380~415, AC480~500, AC600~690
Rated current:	16 A, 32 A, 63 A, 125 A

Cable entry:	Rated current (A)	16	32	63	125
	Socket inlet thread	n.2 M25x1.5	n.2 M40x1.5	n.2 M50x1.5	n.2 M63x1.5
	Outer diameter of socket cable (mm)	Ø8~Ø14	Ø15~Ø26	Ø19~Ø36	Ø37~Ø44
	Outer diameter of plug cable (mm)	16A/3:Ø7~Ø16 16A/4(5):Ø9~Ø19	Ø12~Ø28	Ø19~Ø28	Ø34~Ø53
	Wire diameter (mm ²)	2.5~4	6	16	35.5
	Weight (kg)	1.9	2.8	9.9	/

CODE SELECTION



Series CMBSP07... Sockets and plugs - plastic material

OUTLINE AND INSTALLATION DIMENSION, WIRING DIAGRAM (Dimensions in mm)

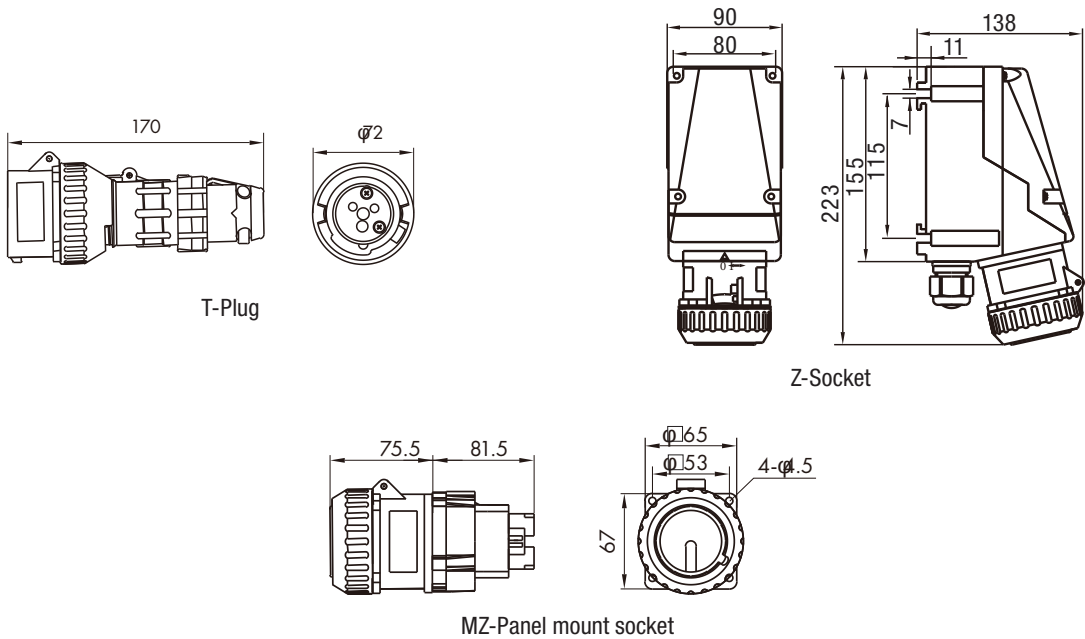
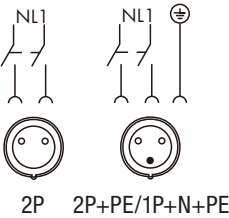
Product Version (16A/2)

CMBSP07-16/2	voltage
	 DC20~25V 2P Purple
	 DC36V~50V 2P White
	 AC20~25V 2P Purple
	 AC36~50V 2P White

Product Version (16A/3)

CMBSP07-16/3	Clock h and voltage
	DC20~25V 2P+PE Purple
	DC36~50V 2P+PE White
	DC50~250V 2P+PE Blue
	AC20~25V 2P+PE/1P+N+PE Purple
	AC36~50V 2P+PE/1P+N+PE White
	AC100~130V 2P+PE/1P+N+PE Yellow
	AC200~250V 2P+PE Blue

Outline and Installation Dimension [16A/2(3)]



Series CMBSP07... Sockets and plugs - plastic material

Product Version (16A/4)

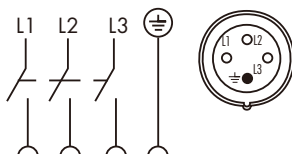
CMBSP07-16/4	Clock h and voltage
	 AC200~250V  3P+PE Blue
	 AC380~415V  3P+PE Red
	 AC480~500V  3P+PE Black
	 AC600~690V  3P+PE Black

Product Version (16A/5)

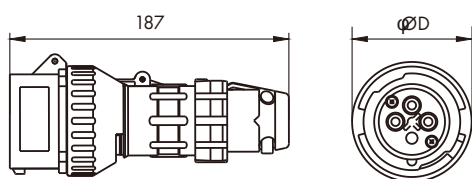
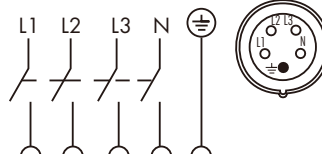
CMBSP07-16/5	Clock h and voltage
	 AC200~250V  3P+N+PE Blue
	 AC380~415V  3P+N+PE Red
	 AC480~500V  3P+N+PE Black
	 AC600~690V  3P+N+PE Black

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

4P 3P+ 

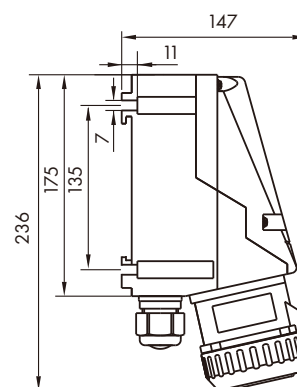
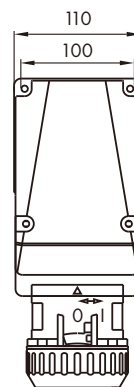


5P 3P+N+ 

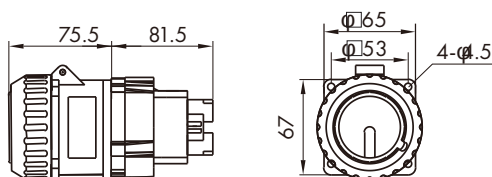


T-Plug

Pole	ØD(mm)
3P+ 	76.5
3P+N+ 	84



Z-Socket



MZ-Panel mount socket

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Product Version (32A/3)

CMBSP07-32A/3	Clock h and voltage
	 AC200~250V 2P+PE Blue
	 AC380~415V 2P+PE Red
	 AC480~500V 2P+PE Black

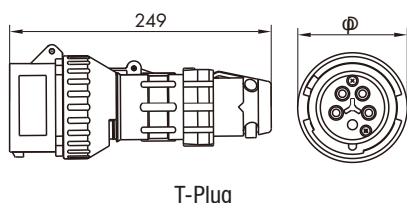
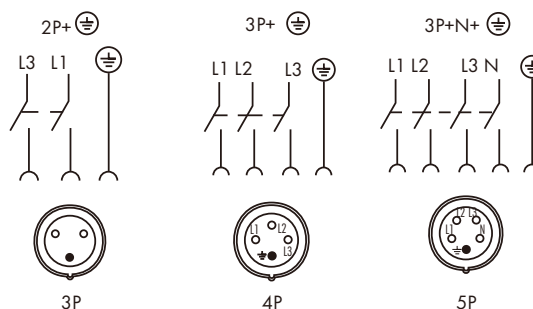
Product Version (32A/4)

CMBSP07-32/4	Clock h and voltage
	 AC200~250V 3P+PE Blue
	 AC380~415V 3P+PE Red
	 AC480~500V 3P+PE Black
	 AC600~690V 3P+PE Black

Product Version(32A/5)

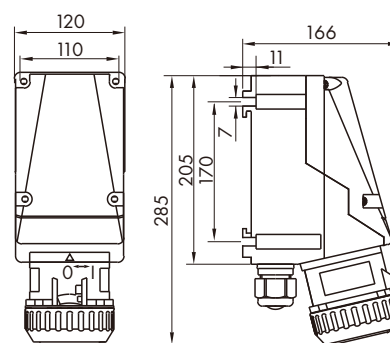
CMBSP07-32A/5	Clock h and voltage
	 AC200~250V 3P+N+PE Blue
	 AC380~415V 3P+N+PE Red
	 AC480~500V 3P+N+PE Black
	 AC600~690V 3P+N+PE Black

Outline and Installation Dimension [32A]

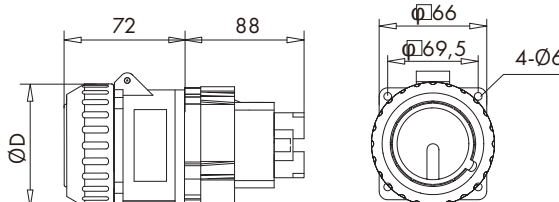


T-Plug

Pole	Ø (mm)
2P+⊕	95
3P+⊕	95
3P+N+⊕	100



Z-Socket



MZ-Panel mount socket

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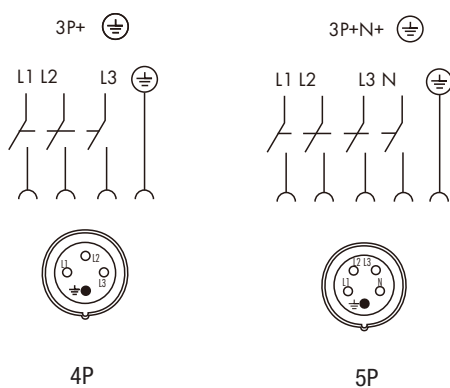
Product Version (63A/4)

CMBSP07-63/4	Clock h and voltage
	 AC220~250V  3P+PE Blue h9
	 AC380~415V  3P+PE Red h6
	 AC480~500V  3P+PE Black h7
	 AC600~690V  3P+PE Black h5

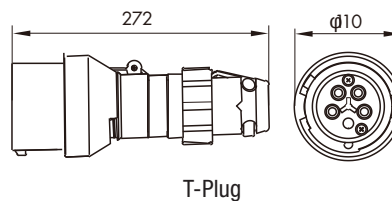
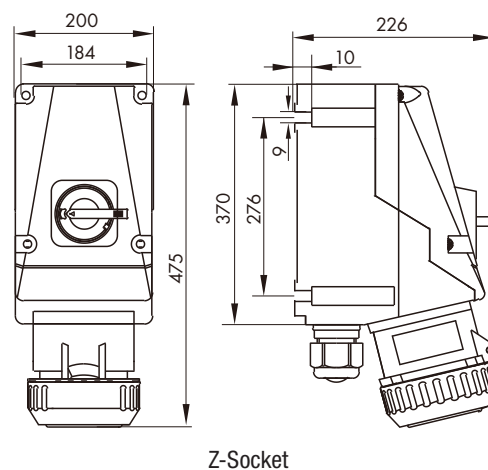
Product Version (63A/5)

CMBSP07-63/5	Clock h and voltage
	 AC220~250V  3P+N+PE Blue h9
	 AC380~415V  3P+N+PE Red h6
	 AC480~500V  3P+N+PE Black h7
	 AC600~690V  3P+N+PE Black h5

Plug and Socket Wiring Diagram (63A)



Outline and Installation Dimension (63A)



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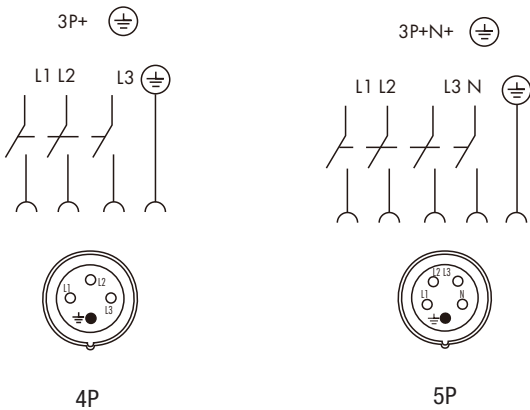
Product Version[125A/4]

CMBSP07-125/4	Clock h and voltage
	 AC200~250V  3P+PE Blue h9
	 AC380~415V  3P+PE Red h6
	 AC480~500V  3P+PE Black h7
	 AC600~690V  3P+PE Black h5

Product Version[125A/5]

CMBSP07-125/5	Clock h and voltage
	 AC200~250V  3P+N+PE Blue h9
	 AC380~415V  3P+N+PE Red h6
	 AC480~500V  3P+N+PE Black h7
	 AC600~690V  3P+N+PE Black h5

Plug and Socket Wiring Diagram [125A/4(5)]



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

