

CPS 5.08/22/180F SN GN BX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**General ordering data**

Order No.	2648140000
Type	CPS 5.08/22/180F SN GN BX
GTIN (EAN)	4050118638837
Qty.	30 pc(s).
Product data	IEC: 630 V / 22 A / 0.2 - 2.5 mm ² UL: 300 V / 18 A / AWG 30 - AWG 12
Packaging	Box

CPS 5.08/22/180F SN GN BX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Dimensions and weights

Net weight	39.3 g
------------	--------

System Parameters

Product family	OMNIMATE Signal - series BL/SL 5.08	Type of connection	Field connection
Wire connection method	Clamping yoke connection	Pitch in mm (P)	5.08 mm
Pitch in inches (P)	0.2 "	Conductor outlet direction	180°
Number of poles	22	L1 in mm	106.68 mm
L1 in inches	4.2 "	Number of rows	1
Pin series quantity	1	Stripping length	7 mm
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.55 Nm
Clamping screw	M 3	Screwdriver blade	0.6 x 3.5
Plugging cycles	25	Plugging force/pole, max.	9 N
Pulling force/pole, max.	6 N		

Material data

Insulating material	PA	Colour	Pale green
Colour chart (similar)	RAL 6021	Insulating material group	I
Insulation strength	500 MΩ	UL 94 flammability rating	V-0
Contact base material	Copper alloy	Contact material	Copper alloy
Contact surface	tinned	Tinning type	matt
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-40 °C	Operating temperature, max.	105 °C

Conductors suitable for connection

Clamping range, min.	0.2 mm ²	Clamping range, max.	4 mm ²
Wire connection cross section AWG, min.	AWG 30	Wire connection cross section AWG, max.	AWG 12
Solid, min. H05(07) V-U	0.2 mm ²	Solid, max. H05(07) V-U	2.5 mm ²
Stranded, min. H07V-R	0.05 mm ²	Stranded, max. H07V-R	2.5 mm ²
Flexible, min. H05(07) V-K	0.2 mm ²	Flexible, max. H05(07) V-K	2.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.2 mm ²	w. plastic collar ferrule, DIN 46228 pt 4, max.	2.5 mm ²
w. wire end ferrule, DIN 46228 pt 1, min.	0.2 mm ²	w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm ²

Rated data acc. to IEC

Rated current, min. number of poles (Tu=20°C)	22 A	Rated current, max. number of poles (Tu=20°C)	22 A
Rated voltage for surge voltage class / pollution degree II/2	630 V	Rated voltage for surge voltage class / pollution degree III/2	320 V
Rated voltage for surge voltage class / pollution degree III/3	250 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV
Rated impulse voltage for surge voltage class/ pollution degree III/2	4 kV	Rated impulse voltage for surge voltage class/ contamination degree III/3	4 kV

Rated data acc. to CSA

Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	18 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 30	Wire cross-section, AWG, max.	AWG 12

CPS 5.08/22/180F SN GN BX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Rated data acc. to UL 1059

Institute (cURus)



Certificate No. (cURus)

E60693

Rated voltage (Use group B / UL 1059) 300 V

Rated voltage (Use group D / UL 1059) 300 V

Rated current (Use group B / UL 1059) 18 A

Rated current (Use group D / UL 1059) 10 A

Wire cross-section, AWG, min. AWG 30

Wire cross-section, AWG, max. AWG 12

Reference to approval values
Specifications are maximum values, details - see approval certificate.

Packing

Packaging Box

VPE length 338 mm

VPE width 130 mm

VPE height 27 mm

Classifications

ETIM 6.0 EC002638

ETIM 7.0 EC002638

ETIM 8.0 EC002638

ETIM 9.0 EC002638

ETIM 10.0 EC002638

ECLASS 9.0 27-44-03-09

ECLASS 9.1 27-44-03-09

ECLASS 10.0 27-44-03-09

ECLASS 11.0 27-46-02-02

ECLASS 12.0 27-46-02-02

ECLASS 13.0 27-46-02-02

ECLASS 14.0 27-46-02-02

ECLASS 15.0 27-46-02-02

Approvals

Approvals

Approvals MAMID https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/

ROHS Conform

UL File Number Search UL Website

Certificate No. (cURus) E60693

Environmental Product Compliance

RoHS Compliance Status Compliant with exemption

RoHS Exemption (if applicable/known) 6c

REACH SVHC Lead 7439-92-1

SCIP d5655e4a-7bb0-47c8-bd67-25d5021f9ded

CPS 5.08/22/180F SN GN BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Important note

Notes

- Only compatible with OMNIMATE basic products
- P on drawing = pitch
- Rated current related to rated cross-section & min. No. of poles.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- Limited rated data according to IEC when using 2.5mm² in combination with ferrules without plastic collars:
400V/2.5kV (II/2) | 240V/2.5kV (III/2) | 160V/2.5kV (III/3)
- In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

Downloads

Catalogues

[Catalogues in PDF-format](#)

CPS 5.08/22/180F SN GN BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Drawings



CPS 5.08/22/180F SN GN BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Drawings

