INSTALLATION INSTRUCTIONS & CONDITIONS FOR SAFE USE

II 2 GD

Ex eb IIC Gb

Modular TERMINAL Blocks: W- Series

CNEX 18 ATEX 0016U
IECEx CNEX 18.0010U
Notified Body No. of Ex - QA: 0344
Label print on package unit: 0344
ExVeritas 21UKEX0918U
Approved Body No. of UK Ex - QA: xxxx
(see product marking)

Standards:
EN IEC 60079-0:2018 and EN IEC 60079-7:2015 A1:2018
IEC 60079-0:2017 7th Edition and IEC 60079-7:2017 5.1th Edition

Modular Terminal Blocks: WPD 130

		Order No
Version:	WPD 130	2502530000

Accessories:	Type	Order No
	WPDPC X30 GY	2503330000
	DEK 5/5 MC NE W	1609801044

Description: Power Feed In Terminal Block

Insulation material base:

- Type	PA6
- Operating temperature range	-60°C…+100°C (insulating material limit)
- Ambient temperature range	-60°C…+40°C (for T6 applications)
- Ambient temperature range	-60°C…+55°C (for T5 applications)
- Ambient temperature range	-60°C…+60°C (for T4 applications)

Screw Drive for Wire Connection:
Slotted head
Phillips-head
Phillips-Combo
Allen-Screw
Torx
Torx-Minus

Technical data according to IEC/EN 60079-7 (increased safety "e", protection level "eb"):

	WPD 130
- Rated voltage	880 V
- Rated current	150 A / ΔT 40 K
- Temperature rise with rated current	≤ 40 K / 150 A
- Contact resistance with rated conductor, 50	0,03 mΩ

* in all colours and optional with hexagon and six lobe drive

	solid	stranded	Finely stranded	Tightening
Rated conductor cross section:	6-50 mm²	6-50 mm²	4-35 mm²	10 Nm
conductor cross section, American Wire Gauge:	10 - 1/0 AWG	10 - 1/0 AWG	12 - 2 AWG	16,9 Nm
conductor cross section:	16-25 mm²	16-25 mm²	16-25 mm²	8-10 Nm
conductor cross section:	6-10 mm²	6-10 mm²	4-10 mm²	6-10 Nm
conductor cross section:	35-50 mm²	35-50 mm²	35 mm²	10 Nm

- cross section, American Wire Gauge 10 AWG- 1/0 kcmil

- Tightening torque range, terminal screw 6 Nm - 10 Nm

Electrical Data:

Max. rated voltage [V]:

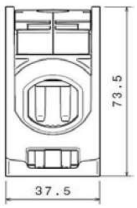
Model:	WPD 130
Screw (direct) mounting with screw acc. to DIN 4762	880
TS 35	880
For busbar (Flexibar) with screw	NA
For busbar (Flexibar) with TS35 mounting	NA

Rated incoming currents

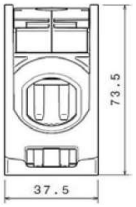
Model:	WPD 130
current [A]:	150

Rated conductor cross sections

Model WPD 130



Wire type	Incoming connection Size [mm2]		
	Left	Center	Right
Solid	-	6…50mm²	-
Stranded	-	6…50mm²	-
Flexible with ferrule	-	4…35mm²	-



Wire type	Outgoing connections Size [mm2]		
	Left	Center	Right
Solid	-	6…50mm²	-
Stranded	-	6…50mm²	-
Flexible with ferrule	-	4…35mm²	-

Note:
The creepage and clearance distances were determined in the worst case. (with tightened screw)
If smaller cross sections than the rated cross section are used, the belonging lower current has to be laid down in the IECEx/EC-Type Examination Certificate of the complete apparatus.

Mounting instructions:
The WPD series is suitable for application in enclosures in atmospheres with flammable gases or combustible dust. For use in flammable gases these enclosures must satisfy the requirements according to IEC/EN60079-0 and IEC/EN60079-7. For use in combustible dust these enclosures must satisfy the requirements according to IEC/EN60079-0 and IEC/EN60079-31.

In combination with other terminal block series and sizes and if other accessories are used, the applicable creepage and clearance distances shall be met.

To connect 2 wires in 1 connection point, please use twin end ferrules with DIN or Weidmüller colour code in combination with the correct Weimüller Crimping Tool.

Regarding the use of accessories the instructions of the manufacturer must be followed.

Under normal operating conditions the temperature rise of the terminal blocks is maximum 40 K, measured at the maximum permitted rated current. Due to the above mentioned, the terminal blocks may be used in apparatus of temperature classes T6..T1 as long as the terminal block ambient temperature range is not exceeded. No part of terminal block must exceed 100 °C under any condition.

T6 (- 60°C ... +40 °C)
T5 (- 60°C … +55 °C)
T4 (- 60°C ... +60 °C)

When using the type WPD especially with other terminal blocks series or sizes or accessories the requirements for clearance and creepage distances according to IEC/EN 60079-7 must be observed. Regarding the use of covers, cross-connectors and end brackets the instructions of the manufacturer must be followed.

No other wire sizes or types than the ones specified in instructions must be used. The terminal blocks must either be mounted next to another block of the same type and size or with an end plate.

If smaller conductor cross sections than the rated conductor cross sections are used, then the corresponding lower current shall be stated in the Certificate of the complete apparatus.

Essential Health and Safety Requirements:
Concerning ESRs this Schedule verifies compliance with the Annex II of ATEX directive and Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016 only. By placing the product on the market, the manufacturer declares compliance with other relevant Directives, and all other safety related requirements including those of Annex II of this Directive.