

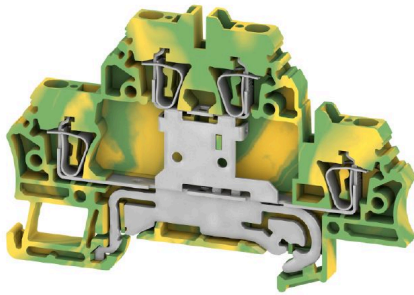
ZDK 2.5PE**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

A protective feed through terminal block is an electrical conductor for the purpose of safety and is used in many applications. To establish the electrical and mechanical connection between copper conductors and the mounting support plate, PE terminal blocks are used. They have one or more contact points for connection with and/or bifurcation of protective earth conductors.

General ordering data

Version	Double-tier terminal, PE terminal, Tension-clamp connection, 2.5 mm ² , 300 A (2.5 mm ²), Green/yellow
Order No.	1690000000
Type	ZDK 2.5PE
GTIN (EAN)	4008190875466
Qty.	50 items

ZDK 2.5PE

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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E60693

Dimensions and weights

Depth	53 mm	Depth (inches)	2.0866 inch
Depth including DIN rail	54 mm	Height	79.5 mm
Height (inches)	3.1299 inch	Width	5.1 mm
Width (inches)	0.2008 inch	Net weight	14.8 g

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-5 °C...40 °C
Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	120 °C

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption		
REACH SVHC	No SVHC above 0.1 wt%		
Product Carbon Footprint	Cradle to gate	0.199 kg CO2 eq.	

Material data

Basic material	Wemid	Colour	Green/yellow
UL 94 flammability rating	V-0		

Rating data IECEX/ATEX

Certificate No. (ATEX)	DEMKO16ATEX1729U	Certificate No. (IECEX)	IECEXULD16.0025U
Wire cross section max. (ATEX)	2.5 mm ²	Wire cross section max. (IECEX)	2.5 mm ²
Marking EN 60079-7	Ex eb II C Gb	Ex 2014/34/EU label	II 2 G D

System specifications

Version	Tension-clamp connection, With PE connection, One end without connector	End cover plate required	Yes
Number of levels	2	Number of clamping points per level	2
Levels cross-connected internally	Yes	PE connection	Yes
Mounting rail	TS 35	PE function	Yes
PEN function	No		

Additional technical data

Open sides	right	Number of similar terminals	1
Installation advice	Direct mounting	Explosion-tested version	Yes

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Technical data

Type of mounting Snap-on

CSA rating data

Conductor size Factory wiring min. (CSA)	26 AWG	Conductor size Field wiring max. (CSA)	12 AWG
Certificate No. (CSA)	80053378-200039	Conductor size Factory wiring max. (CSA)	12 AWG
Conductor size Field wiring min. (CSA)	26 AWG		

Conductors for clamping (additional connection)

Connection type, additional connection Tension-clamp connection

Conductors for clamping (rated connection)

Gauge to IEC 60947-1	A2		
Wire connection cross section AWG, max.	AWG 14		
Connection direction	top		
Stripping length	10 mm		
Type of connection	Tension-clamp connection		
Number of connections	4		
Clamping range, max.	2.5 mm ²		
Clamping range, min.	0.05 mm ²		
Blade size	0.6 x 3.5 mm		
Wire connection cross section AWG, min.	AWG 24		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	1.5 mm ²		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.05 mm ²		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	2.5 mm ²		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	0.05 mm ²		
Wire connection cross section, finely stranded, max.	2.5 mm ²		
Wire connection cross section, finely stranded, min.	0.05 mm ²		
Connection cross-section, stranded, max.	2.5 mm ²		
Connection cross-section, stranded, min.	0.05 mm ²		
Wire connection cross-section, solid core, max.	2.5 mm ²		
Wire connection cross-section, solid core, min.	0.05 mm ²		
Tube length for wire-end ferrule with plastic collar DIN 46228/4	Tube length	min.	6 mm
		max.	10 mm
	Cross-section for conductor connection	nominal	0.5 mm ²
		Tube length	min.
	Cross-section for conductor connection	max.	12 mm
		nominal	0.75 mm ²
	Tube length	min.	6 mm
		max.	12 mm
	Cross-section for conductor connection	nominal	1 mm ²
		Tube length	min.

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Technical data

Tube length for wire-end ferrule without plastic collar DIN 46228/1		max.	12 mm
	Cross-section for conductor connection	nominal	1.5 mm ²
	Tube length	min.	8 mm
		max.	12 mm
	Cross-section for conductor connection	nominal	2.5 mm ²
	Tube length	nominal	10 mm
	Cross-section for conductor connection	nominal	0.5 mm ²
	Tube length	nominal	10 mm
	Cross-section for conductor connection	nominal	0.75 mm ²
	Tube length	nominal	10 mm
	Cross-section for conductor connection	nominal	1 mm ²
	Tube length	min.	10 mm
		max.	12 mm
	Cross-section for conductor connection	nominal	1.5 mm ²
	Tube length	min.	10 mm
	max.	12 mm	
Cross-section for conductor connection	nominal	2.5 mm ²	

General

Wire connection cross section AWG, max.	AWG 14	Installation advice	Direct mounting
Wire connection cross section AWG, min.	AWG 24	Standards	IEC 60947-7-2
Mounting rail	TS 35		

PE rating data

Rated short-time current	300 A (2.5 mm ²)	PEN function	No
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Rating data

Rated cross-section	2.5 mm ²	Rated voltage to adjoining terminal	500 V
Rated DC voltage	500 V	Standards	IEC 60947-7-2
Volume resistance according to IEC 60947-7-x	1.33 mΩ	Rated impulse withstand voltage to adjacent terminal	6 kV
Power loss in accordance with IEC 60947-7-x	0.00 W	Pollution severity	3

UL rating data

Conductor size Factory wiring max. (UR)	14 AWG	Conductor size Factory wiring min. (UR)	26 AWG
Certificate No. (UR)	E60693	Conductor size Field wiring min. (UR)	26 AWG
Conductor size Field wiring max. (UR)	14 AWG		

Classifications

ETIM 7.0	EC000901	ETIM 8.0	EC000901
ETIM 9.0	EC000901	ETIM 10.0	EC000901
ECLASS 11.0	27-14-11-41	ECLASS 12.0	27-14-11-41
ECLASS 13.0	27-25-01-04	ECLASS 14.0	27-25-01-04
ECLASS 15.0	27-25-01-04		

Drawings

