

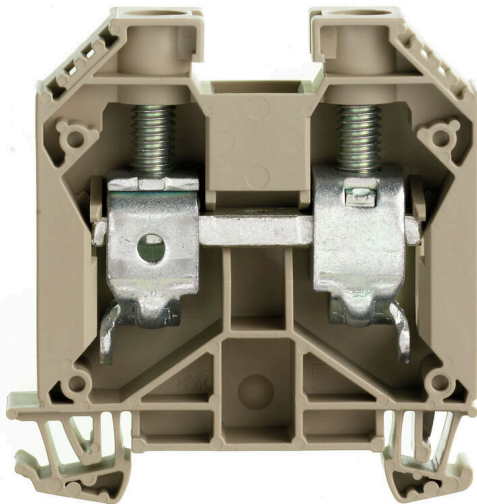
WDU 35**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

More and more components need to be housed within a confined space, in switchgear and panels. As part of the power feed-in, connecting conductors is becoming increasingly challenging, especially for large cross-sections. Our comprehensive range of connection solutions also enables convenient wiring in challenging space conditions. The compact design and the combination of many practical handling benefits make the supply of power to switchgear and panels simple, efficient, and space-saving.

General ordering data

Version	Feed-through terminal block, Screw connection, dark beige, 35 mm ² , 125 A, 1000 V, Number of connections: 2
Order No.	1020500000
Type	WDU 35
GTIN (EAN)	4008190077013
Qty.	40 items

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Technical data

Approvals

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ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E60693
Certificate No. (cURusEX)	E184763

Dimensions and weights

Depth	62.5 mm	Depth (inches)	2.4606 inch
Depth including DIN rail	63 mm	Height	60 mm
Height (inches)	2.3622 inch	Width	16 mm
Width (inches)	0.6299 inch	Net weight	51.38 g

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-60 °C...85 °C
Continuous operating temp., min.	-60 °C	Continuous operating temp., max.	130 °C

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption		
REACH SVHC	No SVHC above 0.1 wt%		
Product Carbon Footprint	Cradle to gate	0,371 kg CO2 eq.	

Material data

Basic material	Wemid	Colour	dark beige
UL 94 flammability rating	V-0		

Rating data IECEX/ATEX

Certificate No. (ATEX)	DEMKO14ATEX1338U	Certificate No. (IECEX)	IECEXULD14.0005U
Max. voltage (ATEX)	690 V	Current (ATEX)	115 A
Wire cross section max. (ATEX)	35 mm ²	Max. voltage (IECEX)	690 V
Current (IECEX)	115 A	Wire cross section max. (IECEX)	35 mm ²
Marking EN 60079-7	Ex eb II C Gb	Ex 2014/34/EU label	II 2 G D

System specifications

Version	Screw connection, for screwable cross-connection, One end without connector	End cover plate required	Yes
Number of potentials	1	Number of levels	1

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Number of clamping points per level	2	Number of potentials per tier	1
Levels cross-connected internally	No	PE connection	No
Mounting rail	TS 35	N-function	No
PE function	No	PEN function	Yes

2 clampable conductors (H05V/H07V) with equal cross-section (rated connection)

Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max.	16 mm ²	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min.	2.5 mm ²
Wire cross-section, finely stranded, two clampable wires, max.	16 mm ²	Wire connection cross section, finely stranded, two clampable wires, min.	2.5 mm ²
Cross-section for connected wire, stranded, two clampable wires, max.	16 mm ²	Cross-section for connected wire, stranded, two clampable wires, min.	16 mm ²

Additional technical data

Open sides	right	Number of similar terminals	1
Explosion-tested version	Yes	Type of mounting	Snap-on

CSA rating data

Voltage size C (CSA)	600 V	Current size C (CSA)	150 A
Certificate No. (CSA)	200039-1057876	Wire cross section min. (CSA)	12 AWG

Conductors for clamping (additional connection)

Connection type, additional connection Screw / solder connection

Conductors for clamping (rated connection)

Gauge to IEC 60947-1	B9
Wire connection cross section AWG, max.	AWG 2
Connection direction	on side
Tightening torque, max.	5 Nm
Tightening torque, min.	4 Nm
Stripping length	18 mm
Type of connection	Screw connection
Number of connections	2
Clamping range, max.	50 mm ²
Clamping range, min.	2.5 mm ²
Clamping screw	M 6
Blade size	6.5 x 1.2 mm
Wire connection cross section AWG, min.	AWG 12
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	35 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	2.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	35 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	2.5 mm ²
Wire connection cross section, finely stranded, max.	35 mm ²

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Wire connection cross section, finely stranded, min.	2.5 mm ²			
Connection cross-section, stranded, max.	50 mm ²			
Connection cross-section, stranded, min.	2.5 mm ²			
Twin wire-end ferrules, max.	16 mm ²			
Twin wire-end ferrules, min.	1.5 mm ²			
Wire connection cross-section, solid core, max.	16 mm ²			
Wire connection cross-section, solid core, min.	2.5 mm ²			
Connection cross-section, finely stranded, min.	2.5 mm ²			
Clampable conductor	Connection specification		Screw connection	
	Cross-section for conductor connection	Type	solid, H05(07) V-U	
		min.	2.5 mm ²	
		max.	16 mm ²	
		nominal	35 mm ²	
	wire end ferrule	Stripping length	min.	18 mm
			max.	18 mm
			nominal	18 mm
		Tightening torque	min.	4 Nm
			max.	5 Nm
			Connection specification	
	Cross-section for conductor connection	Type	stranded, H07V-R	
min.		2.5 mm ²		
max.		50 mm ²		
nominal		35 mm ²		
wire end ferrule	Stripping length	min.	18 mm	
		max.	18 mm	
		nominal	18 mm	
	Tightening torque	min.	4 Nm	
		max.	5 Nm	
		Connection specification		Screw connection
Cross-section for conductor connection	Type	flexible, H05(07) V-K		
	min.	2.5 mm ²		
	max.	35 mm ²		
	nominal	35 mm ²		
wire end ferrule	Stripping length	min.	18 mm	
		max.	18 mm	
		nominal	18 mm	
	Tightening torque	min.	4 Nm	
		max.	5 Nm	

General

Wire connection cross section AWG, max.	AWG 2	Wire connection cross section AWG, min.	AWG 12
Standards	IEC 60947-7-1	Mounting rail	TS 35

Rating data

Rated cross-section	35 mm ²	Rated voltage	1000 V
Rated DC voltage	1000 V	Nominal current	125 A
Current at maximum wires	150 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	0.26 mΩ	Rated impulse withstand voltage	8 kV

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Power loss in accordance with IEC 60947-7-x	4.00 W	Surge voltage category	III
Pollution severity	3		

UL rating data

Conductor size Factory wiring max. (UR)	0 AWG	Current size C (UR)	150 A
Voltage size C (UR)	1000 V	Conductor size Factory wiring min. (UR)	12 AWG
Certificate No. (UR)	E60693	Conductor size Field wiring min. (UR)	12 AWG
Conductor size Field wiring max. (UR)	0 AWG		

Classifications

ETIM 8.0	EC000897	ETIM 9.0	EC000897
ETIM 10.0	EC000897	ECLASS 14.0	27-25-01-01
ECLASS 15.0	27-25-01-01		

Drawings

