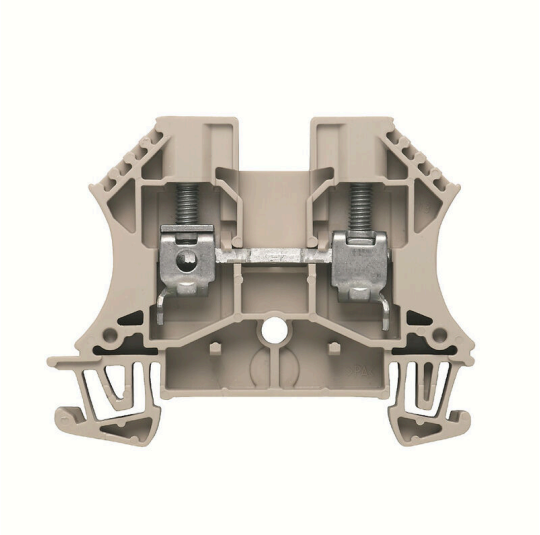
Data sheet

WDU 6 HV

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

www.weidmueller.com

Product image



To feed through power, signal, and data is the classical requirement in electrical engineering and panel building. The insulating material, the connection system and the design of the terminal blocks are the differentiating features. A feed-through terminal block is suitable for joining and/or connecting one or more conductors. They could have one or more connection levels that are on the same potential or insulated against one another.

General ordering data

Version	Feed-through terminal block, Screw connection, dark beige, 6 mm², 41 A, 1000 V, Number of connections: 2
Order No.	1412970000
Type	WDU 6 HV
GTIN (EAN)	4050118237023
Qty.	100 items

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Technical data

Approvals

Approvals	
ROHS	Conform

Dimensions and weights

Depth	46.5 mm	Depth (inches)	1.8307 inch
Depth including DIN rail	47 mm	Height	60 mm
Height (inches)	2.3622 inch	Width	7.9 mm
Width (inches)	0.311 inch	Net weight	12.75 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	0.172 kg CO2 eq.

Material data

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

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
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	No

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

Cross-section for connected wire, solid (two clampable wires), max.	2.5 mm²	Cross-section for connected wire, solid (two clampable wires), min.	0.5 mm²
Wire connection cross-section, finely stranded with wire end ferrules (DIN 46228/1) (2 clampable wires), max.	2.5 mm²	Wire connection cross-section, finely stranded with wire end ferrules (DIN 46228/1) (2 clampable wires), min.	0.5 mm²
Wire cross-section, finely stranded (two clampable wires), max.	2.5 mm²	Wire connection cross-section, finely stranded (two clampable wires), min.	0.5 mm²

Additional technical data

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

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Conductors for clamping (additional connection)

Connection type, additional connection	Screw connection

Conductors for clamping (rated connection)

Gauge to IEC 60947-1	A5			
Wire connection cross section AWG, max.	AWG 8			
Connection direction	on side			
Tightening torque, max.	1.6 Nm			
Tightening torque, min.	0.8 Nm			
Stripping length	12 mm			
Type of connection	Screw connection			
Number of connections	2			
Clamping range, max.	10 mm²			
Clamping range, min.	0.22 mm²			
Clamping screw	M 3.5			
Blade size	0.8 x 4.0 mm			
Wire connection cross section AWG, min.	AWG 26			
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	6 mm²			
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm²			
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	6 mm²			
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	0.5 mm²			
Wire connection cross-section, finely stranded, max.	10 mm²			
Wire connection cross section, finely stranded, min.	0.5 mm²			
Connection cross-section, stranded, max.	10 mm²			
Connection cross-section, stranded, min.	1.5 mm²			
Twin wire-end ferrules, max.	4 mm²			
Twin wire-end ferrules, min.	0.5 mm²			
Torque level with DMS electric screwdriver	3			
Wire connection cross-section, solid core, max.	10 mm²			
Wire connection cross-section, solid core, min.	0.5 mm²			
Clampable conductor	Connection specification	Screw connection		
	Cross-section for conductor connection	Type	solid, H05(07) V-U	
		min.	0.5 mm²	
		max.	10 mm²	
		nominal	6 mm²	
	wire end ferrule	Stripping length	min.	12 mm
			max.	12 mm
			nominal	12 mm
		Tightening torque	min.	0.8 Nm
			max.	1.6 Nm
	Connection specification	Screw connection		
	Cross-section for conductor connection	Type	stranded, H07V-R	

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	min.	1.5 mm²	
	max.	10 mm²	
	nominal	6 mm²	
wire end ferrule	Stripping length	min.	12 mm
		max.	12 mm
		nominal	12 mm
	Tightening torque	min.	0.8 Nm
		max.	1.6 Nm
Connection specification	Screw connection		
Cross-section for conductor connection	Type	flexible, H05(07) V-K	
	min.	0.5 mm²	
	max.	10 mm²	
	nominal	6 mm²	
wire end ferrule	Stripping length	min.	12 mm
		max.	12 mm
		nominal	12 mm
	Tightening torque	min.	0.8 Nm
		max.	1.6 Nm

General

Wire connection cross section AWG, max.	AWG 8	Wire connection cross section AWG, min.	AWG 26
Standards	IEC 60947-7-1	Mounting rail	TS 35

Rating data

Rated cross-section	6 mm²	Rated voltage	1000 V
Rated DC voltage	1000 V	Nominal current	41 A
Current at maximum wires	57 A	Standards	IEC 60947-7-1
Volume resistance	0.78 mΩ	Rated impulse withstand voltage	8 kV
Power loss in accordance with IEC 60947-7-x	1.31 W	Pollution severity	3

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		

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Drawings