Double-deck terminal block; Through/through terminal block; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm²; CAGE CLAMP[®]; 2,50 mm²; blue/gray www.wago.com/280-523



<image><image>



Subject to changes. Please also observe the further product documentation!

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Data Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60947-7-1
Nominal voltage (III/3)	500 V
Rated impulse voltage (III/3)	6 kV
Rated current	20 A
Legend (ratings)	(III / 3) \triangleq Overvoltage category III / Pollution degree 3

Power loss

Power loss, per pole (potential)	0.532 W
Rated current I _N for specified power loss	20 A
Resistance value for specified, current-dependent power loss	0.001 Ω

Connection data

Connection points	4
Total number of potentials	2
Number of levels	2

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Connection 1

Connection technology	CAGE CLAMP [®]
Actuation type	Operating tool
Connectable conductor materials	Copper Aluminum
Connectable conductor materials (note)	Terminating Aluminum Conductors WAGO spring clamp terminal blocks are suitable for solid aluminum conductors up to 4 mm²/12 AWG if WAGO "Alu-Plus" Contact Paste 249-130 is used for termination.
	"Alu-Plus" Contact Paste Advantages:
	Automatically destroys the oxide film during clamping.
	Prevents fresh oxidation at the clamping point.
	Prevents electrolytic corrosion between aluminum and copper conductors (in the same terminal block).
	Provides long-term protection against corrosion.
	Using terminal blocks with CAGE CLAMP [®] Spring Pressure Connection Technology, aluminum conductors must first be cleaned with a blade and then immediately be inserted into the clamping units filled with "Alu-Plus" Contact Paste.
	It is also possible to apply WAGO "Alu-Plus" additionally on the whole surface of the aluminum conductor before termination.
	Please note that the nominal currents must be adapted to the reduced conductivity of the aluminum conductors:: 2.5 mm ² = 16 A 4 mm ² = 22 A
Solid conductor	0.08 2.5 mm² / 28 12 AWG
Fine-stranded conductor	0.08 2.5 mm² / 28 12 AWG
Note (conductor cross-section)	12 AWG: THHN, THWN
Strip length	8 9 mm / 0.31 0.35 inches
Wiring direction	Front-entry wiring

Physical data

Width	5 mm / 0.197 inches
Height	64 mm / 2.52 inches

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Depth from upper-edge of DIN-rail

58.5 mm / 2.303 inches

Mechanical Data

Design	horizontal type
Mounting type	DIN-35 rail
Marking level	Center marking

Material Data

Note (material data)

Information on material specifications can be found here

Color	blue/gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	VO
Fire load	0.129 MJ
Weight	10.1 g

Environmental requirements

Processing temperature	-35 +85 ℃
Continuous operating temperature	-60 +105 °C

Commercial data

Product Group	1 (Rail Mounted Terminal Blocks)
eCl@ss 10.0	27-14-11-20
eCl@ss 9.0	27-14-11-20
ETIM 8.0	EC000897
ETIM 7.0	EC000897
PU (SPU)	50 pcs
Packaging type	box
Country of origin	CN
GTIN	4050821293613
Customs tariff number	85369010000

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

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Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
KEMA	CCA DEKRA Certification B.V.	EN 60947	2157201.01
Æ	CSA DEKRA Certification B.V.	C22.2	1536071
AL	UR Underwriters Laboratories Inc.	UL 1059	E45172
Declarations	of conformity and manufacturer's declarations		

Logo	Approval	Additional Approval Text	Certificate name
Ce	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications

CA

Hansastr. 27

32423 Minden

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Logo	Approval	Additional Approval Text	Certificate name
ABS.	ABS American Bureau of Shipping	EN 60947	20- HG1941090- PDA
BUREAU VER ITAS	BV Bureau Veritas S.A.	EN 60947	07436/F0 BV
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2
Subject to cha	anges. Please also observe the further product docume	ntation!	
WAGO GmbH	& Co. KG	Do you have any questions about our products?	

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THE PARTY OF THE P	LR EN 60947 Lloyds Register		91/20112 (E9)
-	ccessories		
nd plate End plate			
	Item no.: 280-341 End and intermediate plate; 2.5 mm thick; orange		www.wago.com/280-341
	Item no.: 280-340 End and intermediate plate; 2.5 mm thick; gray		www.wago.com/280-340
ptional ac			
Mounting ac	ccessories		
~	Item no.: 210-197 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 6	0715; silver-colored	www.wago.com/210-197
	Item no.: 210-198 Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according colored	g to EN 60715; copper-	www.wago.com/210-198
le)	Item no.: 210-504 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according colored	ording to EN 60715; silver-	www.wago.com/210-504
Ņ	Item no.: 210-505 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; ac silver-colored	ccording to EN 60715;	www.wago.com/210-505
	Item no.: 210-506 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; s colored	similar to EN 60715; silver-	www.wago.com/210-506
2	Item no.: 210-508 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; sin colored	nilar to EN 60715; silver-	www.wago.com/210-508
Ņ	Item no.: 210-113 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to	EN 60715; silver-colored	www.wago.com/210-113
	Item no.: 210-118 Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to	DEN 60715; silver-colored	www.wago.com/210-118

Item no.: 210-112

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Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; www.wago.com/210-112 silver-colored

P	Item no.: 210-114 Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored	www.wago.com/210-114
11220000	Item no.: 210-115 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored	www.wago.com/210-115
Ø	Item no.: 210-196 Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored	www.wago.com/210-196
arking acce	ssories	
Marker		
æ	Item no.: 2009-115 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	www.wago.com/2009-11
man	Item no.: 793-501 WMB marking card; as card; not stretchable; plain; snap-on type; white	www.wago.com/793-501
annan	Item no.: 793-5501 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white	www.wago.com/793-550
umpers		
Jumper		
$\gamma\gamma\gamma\gamma$	Item no.: 210-123 Wire commoning chain; insulated; blue	www.wago.com/210-123
	Item no.: 280-402 Jumper; insulated; gray	www.wago.com/280-402
$\gamma\gamma\gamma\gamma$	Item no.: 210-103 Wire commoning chain; insulated; black	www.wago.com/210-103
	Item no.: 281-421 Vertical jumper; insulated; gray	www.wago.com/281-421
	Item no.: 280-492 Jumper; 2-way; insulated; gray	www.wago.com/280-492
	ltem no.: 280-409 Jumper; insulated; gray	www.wago.com/280-409
		www.wago.com/280-409 www.wago.com/280-482

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	Item no.: 280-490 Jumper; 10-way; insulated; gray	www.wago.com/280-490
1111	Item no.: 280-485 Jumper; 5-way; insulated; gray	www.wago.com/280-485
m	Item no.: 280-483 Jumper; 3-way; insulated; gray	www.wago.com/280-483
\mathbb{M}	Item no.: 709-110 Wire commoning chain; 2.5 mm²; insulated; black	www.wago.com/709-110
\bigcap	Item no.: 709-112 Wire commoning chain; 2.5 mm²; insulated; black	www.wago.com/709-112
\bigcap	Item no.: 709-111 Wire commoning chain; 2.5 mm²; insulated; black	www.wago.com/709-111
ţ,	Item no.: 780-454 Staggered jumper; from 1 to 4; insulated; gray	www.wago.com/780-454
	Item no.: 780-452 Staggered jumper; from 1 to 2; insulated; gray	www.wago.com/780-452
	Item no.: 780-453 Staggered jumper; from 1 to 3; insulated; gray	www.wago.com/780-453
	Item no.: 780-457 Staggered jumper; from 1 to 7; insulated; gray	www.wago.com/780-457
	Item no.: 780-456 Staggered jumper; from 1 to 6; insulated; gray	www.wago.com/780-456
	Item no.: 780-455 Staggered jumper; from 1 to 5; insulated; gray	www.wago.com/780-455
	Item no.: 780-458 Staggered jumper; from 1 to 8; insulated; gray	www.wago.com/780-458
Tool		
Operating t		
/	Item no.: 210-657 Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured	www.wago.com/210-657
	Item no.: 210-658 Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short; multicoloured	www.wago.com/210-658

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N/AG0



Item no.: 210-720

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

www.wago.com/210-720

Mounting		
Cover carrie	er sen en e	
	Item no.: 709-168 Cover carrier; Type 2; incl. fixing/retaining screws and knurled nut; suitable for 283 to 285 Series rail- mounted terminal blocks; suitable for 279 to 281 Series double- and triple-deck terminal blocks; suitable for 780 to 785, 775, 776 and 777 Series TOPJOB® rail-mounted terminal blocks; suitable for 280 Series sensor and actuator terminal blocks; suitable for 282 Series disconnect/test terminal blocks for transformer circuits; gray	www.wago.com/709-168
Cover		
	Item no.: 709-154 Cover; Type 2; suitable for cover carrier, type 2; 1 m long; transparent	www.wago.com/709-154
Mounting a	ccessories	
Ċ	Item no.: 209-106 Mounting carrier; for isolated mounting on DIN 35 rails; gray	www.wago.com/209-106
·?!!')	Item no.: 249-116 Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray	www.wago.com/249-116
Protective wa	irning marker	
Cover		
1000	ltem no.: 280-415 Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow	www.wago.com/280-415
Push-in type	wire jumper	
Jumper		
\bigcap	l tem no.: 249-123 Push-in type wire jumper; 0.75 mm²; insulated; 180 mm long; black	www.wago.com/249-123
\bigcap	Item no.: 249-126 Push-in type wire jumper; 0.75 mm²; insulated; 110 mm long; black	www.wago.com/249-126
\bigcirc	Item no.: 249-127 Push-in type wire jumper; 0.75 mm²; insulated; 250 mm long; black	www.wago.com/249-127
\bigcirc	Item no.: 249-125 Push-in type wire jumper; insulated; 60 mm long; black	www.wago.com/249-125
Testing and n	neasuring	
Testing acc	essories	
Ţ	ltem no.: 249-141 L-type test plug module; modular; with spring-loaded contact pin; Center module; 1,50 mm²; gray	www.wago.com/249-141

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www.wago.com/280-523



P	ltem no.: 249-142	www.wago.com/249-142
1	L-type end module; modular; with rigid contact pin; End module; 1,50 mm²; gray	
Ferrule		
Ferrule		
1	ltem no.: 216-101	1010 101
	Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored	www.wago.com/216-101
1	Item no.: 216-104	www.wago.com/216-104
	Ferrule; Sleeve for 1.5 mm ² / AWG 16; uninsulated; electro-tin plated; silver-colored	www.wago.com/210-104
I	ltem no.: 216-102	www.wago.com/216-102
	Ferrule; Sleeve for 0.75 mm ² / AWG 20; uninsulated; electro-tin plated; silver-colored	www.wago.com/210102
I	ltem no.: 216-103	www.wago.com/216-103
	Ferrule; Sleeve for 1 mm ² / AWG 18; uninsulated; electro-tin plated	www.wago.com/210100
	ltem no.: 216-203	www.wago.com/216-203
	Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; red	11111111111111111111111111111111111111
h	ltem no.: 216-202	www.wago.com/216-202
	Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; gray	www.wago.com/210-202
n .	ltem no.: 216-204	www.wago.com/216-204
	Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; black	www.wago.com/210/204
l	ltem no.: 216-201	www.wago.com/216-201
	Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; white	www.wago.com/210/201
Å	ltem no.: 216-301	www.wago.com/216-301
	Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated; yellow	www.wago.com/210-301
l.	Item no.: 216-302	www.wago.com/216-302
	Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise	www.wago.com/210-302
Insulation sto		
Insulation s	top	
	ltem no.: 280-472	1200 472
CE	Insulation stop; 0.75 - 1 mm²; 5 pieces/strip; black	www.wago.com/280-472
000	Item no.: 280-470	
0999	Insulation stop; 0.08 - 0.2 mm² "s" (0.14 mm² "f-st"); 5 pieces/strip; white	www.wago.com/280-470
000	ltem no.: 280-471	1000 171
600	Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray	www.wago.com/280-471

Downloads Documentation

Bid Text

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Technical Section		pdf	Download
Technical explanations		2.2 MB	
CAD/CAE-Data			
CAD data			
2D/3D Models 280-523		URL	Download
CAE data			
EPLAN Data Portal 280-523		URL	Download
WSCAD Universe 280-523		URL	Download
ZUKEN Portal 280-523		URL	Download
Environmental Product Compliance			
Compliance Search			
Environmental Product Compliance 280-523		URL	Download
Double-deck terminal block; Through/through terminal block; for DIN-rail 35 x 15 35 x 7.5; 2.5 mm ² ; CAGE CLAMP [®] ; 2,50 mm ² ; blue/gray	and		

Installation Notes

Installation

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Snapping a terminal block onto the DIN-rail.



Removing a terminal block from the assembly.



Double-deck terminal blocks accommodate two circuits of different potentials on two decks; different circuits can be differentiated by color coding either deck (280 Series). The lower deck is wider than the upper for easier wiring.

Conductor termination



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Data sheet | Item number: 280-523 www.wago.com/280-523

N/AGO



The flexible marker carrier, which is placed above the wiring level, can be pushed aside during wiring or commoning. The carrier has two staggered levels for WMB markers that perfectly align with the terminal block decks.

Commoning



Commoning using an adjacent jumper.

Push jumpers down until fully inserted!

Commoning

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Commoning with a vertical jumper (281-421). Push vertical jumper down until fully inserted!



Combining vertical and adjacent jumpers.



Example of a mixed assembly with double-deck terminal blocks.

The 280 Series Double-Deck Terminal Blocks are available with decks of same or different color according to their function. This is an additional visual aid during wiring, service or maintenance.

Subject to changes. Please also observe the further product documentation!

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Data sheet | Item number: 280-523 www.wago.com/280-523







With a terminal block width of just 5 mm, an effective width of just 2.5 mm for terminal blocks of same or different potentials can be realized for conductors ranging 0.08 mm² ... 2.5 mm² (28 ... 14 AWG).

Use 50% less rail space with double-deck terminal blocks.





Labeling via WMB Multi Marking System.

Product family

Classic

EPSITRON® CLASSIC POWER: The Robust Power Supply - with Integrated TopBoost (Optional)

Show all products from the family

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