

3036479

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 3, connection method: Spring-cage connection, Rated cross section: 6 mm², cross section: 0.2 mm² - 10 mm², mounting type: NS 35/7,5, NS 35/15, color: blue

### Your advantages

- · The consistent double function shaft offers every opportunity for time-saving potential distribution and accommodating test accessories
- · User-friendly implementation of all potential branching tasks
- · Tested for railway applications
- · Space-saving and practical multi-conductor connection without additional bridges

#### Commercial data

Item number	3036479
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE02
Product key	BE2112
Catalog page	Page 237 (C-1-2019)
GTIN	4017918886820
Weight per piece (including packing)	22.452 g
Weight per piece (excluding packing)	22.452 g
Customs tariff number	85369010
Country of origin	PL



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### Technical data

#### Product properties

Product type	Multi-conductor terminal block
Area of application	Railway industry
	Machine building
	Plant engineering
	Process industry
Number of connections	3
Number of rows	1
Potentials	1
Insulation characteristics	
Overvoltage category	III
Degree of pollution	3

#### Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	1.31 W

#### Connection data

Number of connections per level	3
Nominal cross section	6 mm²
Stripping length	12 mm
Internal cylindrical gage	A5
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.2 mm² 10 mm²
Cross section AWG	24 8 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm² 6 mm²
Conductor cross section, flexible [AWG]	24 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² 6 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm² 6 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1.5 mm²
Nominal current	41 A
Maximum load current	52 A (in case of a 10 mm² conductor cross section, the maximum load current must not be exceeded by the total current of all connected conductors.)
Nominal voltage	1000 V
Nominal cross section	6 mm²

#### Ex data

#### Rated data (ATEX/IECEx)

	II 2 GD Ex eb IIC Gb
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Rated current       36 A         Maximum load current       46 A         Contact resistance       0.68 mΩ         connection data General         Nominal cross section       6 mm²         Rated cross section AWG       10         Connection capacity rigid       0.2 mm² 10 mm²         Connection capacity AWG       24 8         Connection capacity flexible       0.2 mm² 6 mm²         Connection capacity AWG       24 10         ensions       8.2 mm         End cover width       2.2 mm         Height       90.5 mm         Depth on NS 35/7,5       43.5 mm         Depth on NS 35/15       51 mm	Operating temperature range	-60 °C 110 °C
1204520 SZF 2-0.8X4.0   3022276 CLIPFIX 35-6   3022218 CLIPFIX 35-7   Plug-in bridge / FBS 2-8 / 3030227   Plug-in bridge / FBS 2-8 / 3030307   Plug-in bridge / FBS 5-8 / 3030303   Plug-in bridge / FBS 10-8 / 3030323   302218	Ex-certified accessories	3036767 D-ST 6-TWIN
Support   Sup		3030789 ATP-ST-TWIN
List of bridges		1204520 SZF 2-0,8X4,0
Plug-in bridge / FBS 2-8 / 3030284   Plug-in bridge / FBS 3-8 / 3030297   Plug-in bridge / FBS 3-8 / 3030310   Plug-in bridge / FBS 3-8 / 3030310   Plug-in bridge / FBS 10-8 / 3030323   Plug-in bridge / FBS 10-8 / 3030323		3022276 CLIPFIX 35-5
Plug-in bridge / FBS 4-8 / 3030297   Plug-in bridge / FBS 4-8 / 3030307   Plug-in bridge / FBS 4-8 / 3030307   Plug-in bridge / FBS 10-8 / 3030323   Plug-in bridge / Plug-in bridge / 40 / 40 / 40 / 40 / 40 / 40 / 40 / 4		3022218 CLIPFIX 35
Plug-in bridge / FBS 4-8 / 3030307	List of bridges	Plug-in bridge / FBS 2-8 / 3030284
Plug-in bridge / FBS 5-8 / 3030310     Plug-in bridge / FBS 10-8 / 3030323     Bridge data		Plug-in bridge / FBS 3-8 / 3030297
Bridge data         35 A / 6 mm²           Ex temperature increase         40 K (39.9 A/6 mm²)           Rated voltage         550 V           for bridging with bridge         550 V           - At bridging between non-adjacent terminal blocks         440 V           - At cut-to-length bridging with cover         220 V           - At cut-to-length bridging with partition plate         275 V           Rated insulation voltage         500 V           output         (Permanent)           x level General         Rated current           Ask add current         46 A           Contact resistance         0.68 mΩ           x connection data General         x connection data General           Nominal cross section         6 mm²           Rated cross section AWG         10           Connection capacity figid         0.2 mm² 10 mm²           Connection capacity fexible         0.2 mm² 6 mm²           Connection capacity fexible         2.2 mm           Connection capacity AWG         24 10           nensions         8.2 mm           End cover width         2.2 mm           Height         90.5 mm           Depth on NS 35/15         51 mm           terial specifications		Plug-in bridge / FBS 4-8 / 3030307
Bridge data         35 A / 6 mm²           Ex temperature increase         40 K (39.9 A/6 mm²)           Rated voltage         550 V           for bridging with bridge         550 V           - At bridging between non-adjacent terminal blocks         440 V           - At cut-to-length bridging with cover         220 V           - At cut-to-length bridging with partition plate         275 V           Rated insulation voltage         500 V           output         (Permanent)           x level General         36 A           Rated current         36 A           Maximum load current         46 A           Contact resistance         0.68 mΩ           x connection data General         Nominal cross section           Nominal cross section AWG         10           Connection capacity MWG         24 8           Connection capacity flexible         0.2 mm² 10 mm²           Connection capacity flexible         0.2 mm² 6 mm²           Connection capacity MWG         24 8           Vidth         8.2 mm           End cover width         2.2 mm           Height         90.5 mm           Depth on NS 35/15         51 mm           terrial specifications           Color		Plug-in bridge / FBS 5-8 / 3030310
Ex temperature increase 40 K (39.9 A/6 mm²)  Rated voltage 550 V for bridging with bridge 550 V - At bridging between non-adjacent terminal blocks 440 V - At cut-to-length bridging with cover 220 V - At cut-to-length bridging with partition plate 275 V Rated insulation voltage 500 V output (Permanent)  x level General  Rated current 36 A Maximum load current 46 A Contact resistance 0.68 mQ  x connection data General  Nominal cross section AWG Connection capacity field Connection capacity field be Connection capacity field be Connection capacity field be Connection capacity AWG Connection capacity AWG 0.2 mm² 6 mm² Connection capacity AWG 0.2 mm² 6 mm² Connection capacity field 0.2 mm² 6 mm²  End cover width 2.2 mm Height 90.5 mm Depth on NS 35/7.5 43.5 mm Depth on NS 35/7.5 51 mm  terial specifications  Color blue Flammability rating according to UL 94 VO		Plug-in bridge / FBS 10-8 / 3030323
Rated voltage         550 V           for bridging with bridge         550 V           - At bridging between non-adjacent terminal blocks         440 V           - At cut-to-length bridging with cover         220 V           - At cut-to-length bridging with partition plate         275 V           Rated insulation voltage         500 V           output         (Permanent)           x level General         8 A           Rated current         36 A           Maximum load current         46 A           Contact resistance         0.68 mΩ           x connection data General         6 mm²           Nominal cross section         6 mm²           Rated cross section AWG         10           Connection capacity rigid         0.2 mm² 10 mm²           Connection capacity flexible         0.2 mm² 6 mm²           Connection capacity AWG         24 8           Connection capacity AWG         24 10           nensions         10           Width         8.2 mm           End cover width         2.2 mm           Height         9.5 mm           Depth on NS 35/7.5         43.5 mm           Depth on NS 35/15         51 mm           terial specifications	Bridge data	35 A / 6 mm²
For bridging with bridge	Ex temperature increase	40 K (39.9 A/6 mm²)
- At bridging between non-adjacent terminal blocks 440 V - At cut-to-length bridging with cover 220 V - At cut-to-length bridging with partition plate 275 V Rated insulation voltage 500 V output (Permanent)  x level General  Rated current 36 A Maximum load current 46 A Contact resistance 0.68 mΩ  x connection data General  Nominal cross section AWG 10 Connection capacity rigid 0.2 mm² 10 mm² Connection capacity AWG 24 8 Connection capacity flexible 0.2 mm² 6 mm² Connection capacity flexible 0.2 mm² 6 mm² Connection capacity AWG 24 10  Tensions  Width 8.2 mm End cover width 2.2 mm Height 90.5 mm Depth on NS 35/7.5 43.5 mm Depth on NS 35/15 51 mm  Eterial specifications  Color blue Flammability rating according to UL 94  V0	Rated voltage	550 V
- At cut-to-length bridging with cover     - At cut-to-length bridging with partition plate     - At cut-to-length bridging with partition plate     - At cut-to-length bridging with partition plate     - Stool V     - At cut-to-length bridging with partition plate     - Stool V     - At cut-to-length bridging with partition plate     - Stool V     - At cut-to-length bridging with partition plate     - Stool V     - At cut-to-length bridging with partition plate     - Stool V     - At cut-to-length bridging with partition plate     - Stool V     - At cut-to-length bridging with partition plate     - Stool V     - At cut-to-length bridging with partition plate     - Stool V     - At cut-to-length bridging with partition plate     - Stool V     - At cut-to-length bridging with partition plate     - Stool V     - At cut-to-length bridging with partition plate     - Stool V     - At cut-to-length plate     - Stool V     - At cut-to-length plate     - Stool V     - At cut-to-length partition plate     - Stool V     - At cut-to-length partition plate     - At cut-to-length plate     - At cut-to-length partition plate     - At cut-to-length plate     - At cut-to-length partition plate     - At cut-to-length partition plate     - At cut-to-length plate	for bridging with bridge	550 V
- At cut-to-length bridging with partition plate 500 V (Permanent)  x level General  Rated current 36 A Maximum load current 46 A Contact resistance 0.68 mΩ  x connection data General  Nominal cross section AWG 10 Connection capacity field be connection capacity AWG 24 8 Connection capacity AWG 24 10  Connection capacity AWG 24 10  Tensions  Width 8.2 mm End cover width 2.2 mm Height 90.5 mm Depth on NS 35/15 43.5 mm  Depth on NS 35/15 51 mm  terial specifications  Color blue  Flammability rating according to UL 94  Vo	- At bridging between non-adjacent terminal blocks	440 V
Rated insulation voltage output (Permanent)  x level General  Rated current 36 A  Maximum load current 46 A Contact resistance 0.68 mΩ  x connection data General  Nominal cross section Rated cross section AWG 10 Connection capacity rigid 0.2 mm² 10 mm² Connection capacity AWG 24 8 Connection capacity flexible 0.2 mm² 6 mm²  Connection capacity AWG 24 10  Tensions  Width 8.2 mm End cover width 4.2 mm Height 90.5 mm Depth on NS 35/7.5 43.5 mm Depth on NS 35/7.5 Depth on NS 35/15  Sterial specifications  Color blue Flammability rating according to UL 94  V0	- At cut-to-length bridging with cover	220 V
Contect or capacity AWG   Connection capa	- At cut-to-length bridging with partition plate	275 V
Rated current 36 A Maximum load current 46 A Contact resistance 0.68 mΩ  x connection data General  Nominal cross section 66 mm² Rated cross section AWG 10 Connection capacity rigid 0.2 mm² 10 mm² Connection capacity AWG 24 8 Connection capacity flexible 0.2 mm² 6 mm² Connection capacity AWG 24 10  mensions  Width 8.2 mm End cover width 2.2 mm Height 90.5 mm Depth on NS 35/7,5 43.5 mm Depth on NS 35/15 51 mm  terrial specifications  Color blue  Flammability rating according to UL 94  V0	Rated insulation voltage	500 V
Rated current       36 A         Maximum load current       46 A         Contact resistance       0.68 mΩ         x connection data General         Nominal cross section       6 mm²         Rated cross section AWG       10         Connection capacity rigid       0.2 mm² 10 mm²         Connection capacity AWG       24 8         Connection capacity flexible       0.2 mm² 6 mm²         Connection capacity AWG       24 10         mensions       8.2 mm         End cover width       2.2 mm         Height       90.5 mm         Depth on NS 35/7.5       43.5 mm         Depth on NS 35/15       51 mm         terial specifications       blue         Flammability rating according to UL 94       V0	output	(Permanent)
Maximum load current       46 A         Contact resistance       0.68 mΩ         x connection data General         Nominal cross section       6 mm²         Rated cross section AWG       10         Connection capacity rigid       0.2 mm² 10 mm²         Connection capacity AWG       24 8         Connection capacity flexible       0.2 mm² 6 mm²         Connection capacity AWG       24 10         mensions       8.2 mm         End cover width       2.2 mm         Height       90.5 mm         Depth on NS 35/7,5       43.5 mm         Depth on NS 35/15       51 mm         terial specifications       blue         Flammability rating according to UL 94       V0	x level General	
Contact resistance 0.68 mΩ  x connection data General  Nominal cross section  6 mm²  Rated cross section AWG 10  Connection capacity rigid 0.2 mm² 10 mm²  Connection capacity AWG 24 8  Connection capacity flexible 0.2 mm² 6 mm²  Connection capacity AWG 24 10  Tensions  Width 8.2 mm  End cover width 2.2 mm  Height 90.5 mm  Depth on NS 35/7,5 43.5 mm  Depth on NS 35/15 51 mm  terial specifications  Color blue  Flammability rating according to UL 94  V0	Rated current	36 A
Nominal cross section AWG Rated cross section AWG 10 Connection capacity rigid 0.2 mm² 10 mm² Connection capacity AWG 24 8 Connection capacity flexible 0.2 mm² 6 mm² Connection capacity AWG 24 10  Tensions  Width 8.2 mm End cover width 4.2.2 mm Height 90.5 mm Depth on NS 35/7,5 43.5 mm Depth on NS 35/15 51 mm  terial specifications  Color blue Flammability rating according to UL 94  V0	Maximum load current	46 A
Nominal cross section  Rated cross section AWG  10  Connection capacity rigid  0.2 mm² 10 mm²  Connection capacity AWG  24 8  Connection capacity flexible  0.2 mm² 6 mm²  Connection capacity AWG  24 10  Tensions  Width  8.2 mm  End cover width  4.2 mm  Depth on NS 35/7,5  43.5 mm  Depth on NS 35/15  Tensions  Color  blue  Flammability rating according to UL 94  Vo	Contact resistance	0.68 mΩ
Rated cross section AWG  Connection capacity rigid  Connection capacity AWG  Connection capacity flexible  Connection capacity AWG  Connection capacity AWG  Connection capacity AWG  24 8  Connection capacity AWG  24 10  The second capacity AWG  End cover width  End cover width  Pepth on NS 35/7,5  Depth on NS 35/7,5  Depth on NS 35/15  The second capacity AWG  Color  Blue  Flammability rating according to UL 94  Flammability rating according to UL 94  Flammability rating according to UL 94	x connection data General	
Connection capacity rigid  Connection capacity AWG  Connection capacity flexible  Connection capacity AWG  Connection capacity AWG  Connection capacity AWG  24 8  Connection capacity AWG  24 10  Pensions  Width  8.2 mm  End cover width  2.2 mm  Height  90.5 mm  Depth on NS 35/7,5  43.5 mm  Depth on NS 35/15  51 mm  Rerial specifications  Color  blue  Flammability rating according to UL 94  V0	Nominal cross section	6 mm²
Connection capacity AWG         24 8           Connection capacity flexible         0.2 mm² 6 mm²           Connection capacity AWG         24 10    Pensions  Width  8.2 mm  End cover width  2.2 mm  Height  90.5 mm  Depth on NS 35/7,5  43.5 mm  Depth on NS 35/15  51 mm  Color  blue  Flammability rating according to UL 94  V0	Rated cross section AWG	10
Connection capacity flexible         0.2 mm² 6 mm²           Connection capacity AWG         24 10           nensions            Width         8.2 mm           End cover width         2.2 mm           Height         90.5 mm           Depth on NS 35/7,5         43.5 mm           Depth on NS 35/15         51 mm           terial specifications           Color         blue           Flammability rating according to UL 94         V0	Connection capacity rigid	0.2 mm² 10 mm²
Connection capacity AWG       24 10         nensions       8.2 mm         Width       8.2 mm         End cover width       2.2 mm         Height       90.5 mm         Depth on NS 35/7,5       43.5 mm         Depth on NS 35/15       51 mm         terial specifications         Color       blue         Flammability rating according to UL 94       V0	Connection capacity AWG	24 8
Width 8.2 mm  End cover width 2.2 mm  Height 90.5 mm  Depth on NS 35/7,5 43.5 mm  Depth on NS 35/15 51 mm  terial specifications  Color blue  Flammability rating according to UL 94 V0	Connection capacity flexible	0.2 mm² 6 mm²
Width 8.2 mm End cover width 2.2 mm Height 90.5 mm Depth on NS 35/7,5 43.5 mm Depth on NS 35/15 51 mm  terial specifications  Color blue Flammability rating according to UL 94 V0	Connection capacity AWG	24 10
End cover width  Height 90.5 mm  Depth on NS 35/7,5 43.5 mm  Depth on NS 35/15 51 mm  terial specifications  Color blue  Flammability rating according to UL 94  V0	nensions	
End cover width  Height  90.5 mm  Depth on NS 35/7,5  43.5 mm  Depth on NS 35/15  51 mm  terial specifications  Color  blue  Flammability rating according to UL 94  V0	Width	8.2 mm
Height 90.5 mm  Depth on NS 35/7,5 43.5 mm  Depth on NS 35/15 51 mm  terial specifications  Color blue Flammability rating according to UL 94 V0		
Depth on NS 35/7,5  Depth on NS 35/15  51 mm  terial specifications  Color blue  Flammability rating according to UL 94  V0		
Depth on NS 35/15  51 mm  terial specifications  Color blue Flammability rating according to UL 94  V0		
terial specifications  Color blue  Flammability rating according to UL 94 V0		
Color blue Flammability rating according to UL 94 V0		
Flammability rating according to UL 94 V0	·	blue



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Insulating material	PA
Static insulating material application in cold	-60 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

#### Electrical tests

#### Surge voltage test

Test voltage setpoint	9.8 kV
Result	Test passed

#### Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 6 mm²	0.72 kA
Short-time withstand current 10 mm²	1.2 kA
Result	Test passed

#### Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

### Mechanical properties

#### Mechanical data

Open side panel	Yes

#### Mechanical tests

#### Mechanical strength

Result	Test passed
Attachment on the carrier	
DIN rail/fixing support	NS 35
Test force setpoint	5 N
Result	Test passed

#### Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.2 mm² / 0.2 kg
	6 mm² / 1.4 kg



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	10 mm² / 2 kg
Result	Test passed
vironmental and real-life conditions	
Aging	
Temperature cycles	192
Result	Test passed
Needle-flame test	
Time of exposure	30 s
Result	Test passed
Oscillation/broadband noise	
Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Service life test category 2, bogie-mounted
Frequency	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 250 Hz
ASD level	11.83 (m/s²)²/Hz
Acceleration	4.25g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed
Shocks	
Specification	DIN EN 50155 (VDE 0115-200):2008-03
Pulse shape	Half-sine
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed
Ambient conditions	
Ambient temperature (operation)	-60 °C 110 °C (Operating temperature range incl. self-heating for max. short-term operating temperature, see RTI Elec.)
Ambient temperature (storage/transport)	-25 °C 60 °C (for a short time, no longer than 24 h, -60°C to +70°C)
Ambient temperature (assembly)	-5 °C 70 °C
Ambient temperature (actuation)	-5 °C 70 °C
Permissible humidity (operation)	20 % 90 %
Permissible humidity (storage/transport)	30 % 70 %
andards and regulations	
Connection in acc. with standard	IEC 60947-7-1
punting	
	NS 35/7,5



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NS 35/15



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## Classifications

#### **ECLASS**

	ECLASS-11.0	27141120		
	ECLASS-13.0	27250101		
ETIM				
	ETIM 9.0	EC000897		
UNSPSC				
	UNSPSC 21.0	39121400		



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## Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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