





Color: 🔳 light gray

Electrical data			
Ratings per IEC/EN		Ex information	
Nominal voltage (III/3)	800 V	Rated current (Ex e II)	20 A
Rated current	25 A		

Physical data		
Width	45.2 mm / 1.78 inches	
Height	4.1 mm / 0.161 inches	
Depth	19 mm / 0.748 inches	
Jumper assignment	1-2-3-4-5-6-7-8-9	

Material data	
Note (material data)	Information on material apositions can be found have
	Information on material specifications can be found here
Color	light gray
Fire load	0.032 MJ
Weight	4.4 g

Environmental requirements				
Environmental Testing (Environmental Conditions)		Environmental Testing (Environmental Conditions)		
Test specification Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06	Acceleration	0.101g (highest test level used for all axes) 0.572g (highest test level used for all axes)	
Test procedure	DIN EN 61373 (VDE 0115-0106):2011-04		5g (highest test level used for all axes)	
Railway applications – Rolling stock equipment –		Test duration per axis	10 min. 5 h	
Shock and vibration tests		Test directions	X, Y and Z axes	
Spectrum/Installation location	Service life test, Category 1, Class A/B		X, Y and Z axes	
Function test with noise-like vibration	Test passed according to Section 8 of		X, Y and Z axes	
	the standard	Monitoring for contact faults/interrupti-	Passed	
Frequency	$f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$	ons		
	$f_1 = 5 \text{ Hz to } f_2^2 = 150 \text{ Hz}$		Passed	
		Simulated service life test through incre- ased levels of noise-like vibration	Test passed according to Section 9 of the standard	

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Extended test scope: Monitoring for con- tact faults/interruptions	Passed Passed
Extended test scope: Voltage drop mea- surement before and after each axis	Passed Passed
Shock test	Test passed according to Section 10 of the standard
Shock form	Half sine
Shock duration	30 ms
Number of shocks per axis	3 pos. und 3 neg.
Vibration and shock stress for rolling stock equipment	Passed

Commercial data	
Product Group	22 (TOPJOB S)
eCl@ss 10.0	27-14-11-40
eCl@ss 9.0	27-14-11-40
ETIM 9.0	EC000489
ETIM 8.0	EC000489
PU (SPU)	25 pcs
Packaging type	Bag
Country of origin	DE
GTIN	4055143690379
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status

Compliant,No Exemption

Approvals / Certificates

Declarations of conformity and manufacturer's declarations

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RAILW	AY I
READ	Y /

Approval	Standard	Certificate Name
Railway WAGO GmbH & Co. KG	-	Railway Ready

Downloads
Environmental Product Compliance
Compliance Search
Environmental Product Compliance 2002-409



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Documentation						
Additional Information			Bid Text			
Technical Section	pdf 2246.92 KB	\downarrow	2002-409	19.02.2019	xml 2.51 KB	\checkmark
			2002-409	27.04.2017	doc 23.50 KB	\downarrow

CAD/CAE-Data

CAD data	CAE data
2D/3D Models 2002-409	EPLAN Data Portal 2002-409
	WSCAD Universe 2002-409
	ZUKEN Portal 2002-409

Installation Notes

Commoning



Insert push-in type jumper bar and push down until it hits backstop.



Removing a push-in type jumper bar: Insert the operating tool between the jumper and partition wall of the dual jumper slots, then lift up the jumper. Place the operating tool in the center of jumpers for up to five contacts (see above), or alternately on both sides for jumpers with more than five contacts.

Commoning



Custom jumpers are created by breaking and removing jumper contacts (2000, 2001, 2002, 2004 Series).



Marking with a felt-tip pen.

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Commoning





Stepping down via push-in type jumper bar:

Commoning via open terminal side with end plate allows jumpering over two cross-section sizes for 16 mm² (6 AWG) and 10 mm² (8 AWG) and one cross-section size for 6/4/2.5 mm² (10/12/14 AWG). An example: from 16 mm² (6 AWG) to 6 mm² (10 AWG) (see illustration above) or from 10 mm² (8 AWG) to 4 mm² (12 AWG).



Note:

The total current of the outgoing circuits must not exceed the nominal current of the step-down jumper/push-in type jumper bar.

Stepping down via push-in type jumper bar.

Stepping down via push-in type jumper bar:

Commoning via closed terminal side with end plate allows jumpering over two cross-section sizes, e.g., from 16 mm² (6 AWG) to 6 mm² (10 AWG) or from 6 mm² (10 AWG) to 2.5 mm² (14 AWG) (see illustration above).

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

