



Color: ■ light gray

Electrical data

Ratings per IEC/EN	
Nominal voltage (III/3)	800 V
Rated current	57 A

Physical data

Width	15.5 mm / 0.61 inches
Height	3.9 mm / 0.154 inches
Depth	24.2 mm / 0.953 inches
Jumper assignment	1-2

Material data

Note (material data)	<a href="#">Information on material specifications can be found here</a>
Color	light gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.016 MJ
Weight	3.3 g

Environmental requirements

Environmental Testing	
Test specification: Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06
Test procedure: Railway applications – Rolling stock equipment – Vibration and shock tests	DIN EN 61373 (VDE 0115-0106):2011-04
Spectrum/Mounting location	Service life test, Category 1, Class A/B
Functional test with noise-like oscillations	Test passed according to Section 8 of the standard

Environmental Testing	
Frequency	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz
Acceleration	0.101g (highest test level used for all axes)
Test duration per axis	10 min.
Test directions	X, Y and Z axes
Monitoring of contact faults and interruptions	Passed
Voltage drop measurement before and after each axis	Passed
Simulated service life test through increased levels of noise-like oscillations	Test passed according to Section 9 of the standard



Environmental Testing	
Frequency	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz
Acceleration	0.572g (highest test level used for all axes)
Test duration per axis	5 h
Test directions	X, Y and Z axes
Extended testing: Monitoring of contact faults and interruptions	Passed
Extended testing: Voltage drop measurement before and after each axis	Passed
Shock test	Test passed according to Section 10 of the standard
Shock pulse form	Half sine
Acceleration	5g (highest test level used for all axes)
Shock duration	30 ms
Number of shocks (per axis)	3 pos. und 3 neg.
Test directions	X, Y and Z axes
Extended testing: Monitoring of contact faults and interruptions	Passed
Extended testing: Voltage drop measurement before and after each axis	Passed
Vibration and shock stress for rolling stock equipment	Passed

Commercial data		
Product Group	22 (TOPJOB S)	
PU (SPU)	25 pcs	
Packaging type	Bag	
Country of origin	DE	
GTIN	4055143702461	
Customs tariff number	85366990990	

Product Classification		
UNSPSC	39121410	
eCl@ss 10.0	27-14-11-40	
eCl@ss 9.0	27-14-11-40	
ETIM 9.0	EC000489	
ETIM 8.0	EC000489	
ECCN	NO US CLASSIFICATION	

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption

Approvals / Certificates	
Declarations of conformity and manufacturer's declarations	



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



Downloads

Environmental Product Compliance

Compliance Search			
Environmental Product Compliance 2016-499			<a href="#">↓</a>

Documentation

Bid Text			
2016-499	19.02.2019	xml 2.55 KB	<a href="#">↓</a>
2016-499	28.04.2017	doc 23.50 KB	<a href="#">↓</a>

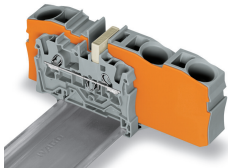
CAD/CAE-Data

CAD data			
2D/3D Models 2016-499			<a href="#">↓</a>

CAE data	
EPLAN Data Portal 2016-499	<a href="#">↓</a>
WSCAD Universe 2016-499	<a href="#">↓</a>
ZUKEN Portal 2016-499	<a href="#">↓</a>

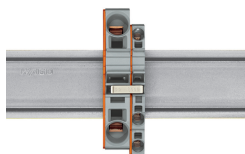
Installation Notes

Commoning



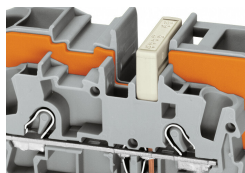
Step-down jumpers common terminal blocks of different sizes, without losing a conductor clamping point. This can be beneficial on long conductor runs where voltage drop can be a problem. A large conductor can be easily connected to smaller conductors at the distribution point. Commoning may be made in either direction using the special thin end plate to cover the open side. Additional through terminal blocks having a smaller cross-section may be commoned using push-in type jumper bars.

## Commoning



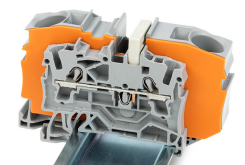
Using **step-down jumpers**, an end plate must be inserted between the terminal blocks to be commoned.

## Commoning



Commoning with step-down jumpers.

## Commoning



**Step-down jumper (2016-499)** commons 16/10 mm<sup>2</sup> (16/8 AWG) terminal blocks (2016/2010 Series) with 10/6/4/2.5 mm<sup>2</sup> (8/10/12/14 AWG) terminal blocks (2010/2006/2004/2002 Series).