

Data Sheet | Item Number: 2000-439
Jumper; from 1 to 9; insulated; light gray

<https://www.wago.com/2000-439>



Color: ■ light gray

Similar to illustration

Electrical data

Ratings per IEC/EN		Ex information	
Nominal voltage (III/3)	800 V	Rated current (Ex e II)	12 A
Rated current	14 A		

Physical data

Width	30.5 mm / 1.201 inches
Height	4.1 mm / 0.161 inches
Depth	19 mm / 0.748 inches
Jumper assignment	1-9

Material data

Note (material data)	Information on material specifications can be found here
Color	light gray
Fire load	0.015 MJ
Weight	1.6 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) 5g (highest test level used for all axes)
Test procedure Railway applications – Rolling stock equipment – Shock and vibration tests	DIN EN 61373 (VDE 0115-0106):2011-04	Test duration per axis	10 min. 5 h
Spectrum/Installation location	Service life test, Category 1, Class A/B	Test directions	X, Y and Z axes X, Y and Z axes X, Y and Z axes
Function test with noise-like vibration	Test passed according to Section 8 of the standard	Monitoring for contact faults/interruptions	Passed
Frequency	$f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$ $f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$	Voltage drop measurement before and after each axis	Passed
		Simulated service life test through increased levels of noise-like vibration	Test passed according to Section 9 of the standard

Environmental Testing (Environmental Conditions)

Extended test scope: Monitoring for contact faults/interruptions	Passed Passed
Extended test scope: Voltage drop measurement 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)
PU (SPU)	25 pcs
Packaging type	Bag
Country of origin	DE
GTIN	4055143697934
Customs tariff number	85366990990

Product classification

UNSPSC	39121421
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Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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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 2000-439

Documentation

Bid Text			
2000-439	19.02.2019	xml 2.52 KB	↓
2000-439	27.04.2017	doc 23.50 KB	↓

CAD/CAE-Data

CAD data	
2D/3D Models 2000-439	↓

CAE data	
EPLAN Data Portal 2000-439	↓
WSCAD Universe 2000-439	↓
ZUKEN Portal 2000-439	↓