

# FWP 8+1 - Power plug

3069297

<https://www.phoenixcontact.com/us/products/3069297>

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Power plug, nom. voltage: 400 V, nominal current: 24 A, number of positions: 9, Rated cross section: 6 mm<sup>2</sup>, color: gray

## Your advantages

- The integrated, robust switch contact is designed for the most stringent demands, and the use of high-quality materials ensures the transmission of signal currents, even after multiple actuations<br/>
- The automatically generated transformer short circuit and the shock-proof design ensure the highest degree of safety during measurement<br/>

## Commercial data

Item number	3069297
Packing unit	5 pc
Minimum order quantity	5 pc
Product key	BE6111
Catalog page	Page 614 (C-1-2019)
GTIN	4046356744959
Weight per piece (including packing)	118.18 g
Weight per piece (excluding packing)	113.82 g
Country of origin	PL

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## Technical data

### Product properties

Product type	Plug
Number of positions	9
Pitch	8.2 mm
Potentials	9

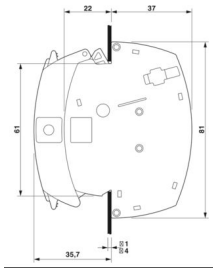
### Electrical properties

Maximum power dissipation for nominal condition	1.31 W
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### Connection data

Nominal cross section	6 mm <sup>2</sup>
Nominal current	24 A
Maximum load current	30 A
Nominal voltage	400 V
Nominal cross section	6 mm <sup>2</sup>

### Dimensions

Dimensional drawing	
Pitch	8.2 mm

### Material specifications

Color	gray
Flammability rating according to UL 94	V0
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °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
Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
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
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## Electrical tests

### Surge voltage test

Test voltage setpoint	4.8 kV
Result	Test passed

### Temperature-rise test

Requirement temperature-rise test	Increase in temperature $\leq 45$ K
Result	Test passed
Short-time withstand current 4 mm <sup>2</sup>	300 A
	500 A
	1250 A
Result	Test passed

### Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

## Mechanical tests

### Mechanical strength

Result	Test passed
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### Attachment on the carrier

DIN rail/fixing support	Panel cutout
Test force setpoint	5 N
Result	Test passed

### Test for conductor damage and slacking

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.2 mm <sup>2</sup> / 0.2 kg
	6 mm <sup>2</sup> / 1.4 kg
	10 mm <sup>2</sup> / 2 kg
Result	Test passed

## Environmental and real-life conditions

### 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 1, class B, body mounted
Frequency	$f_1 = 5$ Hz to $f_2 = 150$ Hz

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ASD level	1.857 (m/s <sup>2</sup> )/Hz
Acceleration	0.8g
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	5g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

## Ambient conditions

Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (storage/transport)	30 % ... 70 %

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## Classifications

### ECLASS

ECLASS-11.0	27440313
ECLASS-12.0	27440313
ECLASS-13.0	27440313

### ETIM

ETIM 9.0	EC002255
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### UNSPSC

UNSPSC 21.0	20122000
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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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