Pushing Performance

DIN-Power F032FW-22,0C1-1

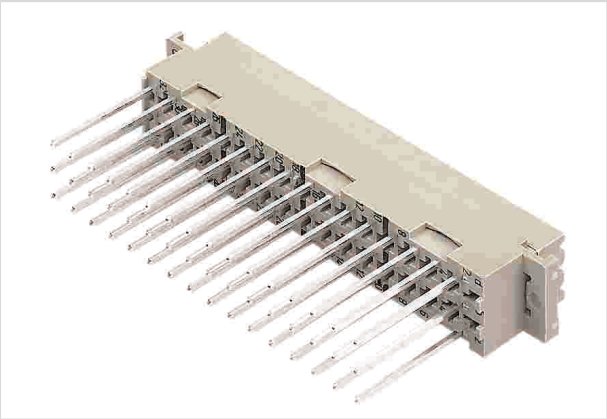


Image is for illustration purposes only. Please refer to product description.

Part number	09 06 232 2831
Specification	DIN-Power F032FW-22,0C1-1
HARTING eCatalogue	https://b2b.harting.com/09062322831

Identification

Category	Connectors
Series	DIN 41612
Identification	Type F
Element	Female connector
Description of the contact	Straight
Features	lead-free

Version

Termination method	Wrap termination
Connection type	PCB to cable Cable to cable
Number of contacts	32
Contact configuration	Rows z and d, positions 2, 4, ... , 30, 32
Termination length	22 mm
Coding	Hole coding Coding with loss of contacts
PCB fixing	With fixing flange

Technical characteristics

Contact rows	3
Contact spacing (mating side)	3.81 mm 5.08 mm
Rated current	6 A
Rated current	Rated current measured at 20 °C, see derating curve for details

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Technical characteristics

Clearance distance	≥1.6 mm
Creepage distance	≥3 mm
Insulation resistance	$>10^{12}$ Ω
Contact resistance	≤15 mΩ
Limiting temperature	-55 ... +125 °C
Insertion and withdrawal force	≤50 N
Performance level	1 acc. to IEC 60603-2
Mating cycles	≥500
Test voltage $U_{r.m.s.}$	1.55 kV (contact-contact) 2.5 kV (contact-ground)
Isolation group	IIIa (175 ≤ CTI < 400)
Hot plugging	No

Material properties

Material (insert)	Thermoplastic resin, glass-fibre filled
Colour (insert)	RAL 7032 (pebble grey)
Material (contacts)	Copper alloy
Surface (contacts)	Noble metal over Ni Mating side Ni Termination side
Material flammability class acc. to UL 94	V-0
RoHS	compliant
ELV status	compliant
China RoHS	e
REACH Annex XVII substances	No
REACH ANNEX XIV substances	No
REACH SVHC substances	No
California proposition 65	Yes
California proposition 65 substances	Antimony trioxide

Specifications and approvals

Specifications	IEC 60603-2
UL / CSA	UL 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079

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Specifications and approvals

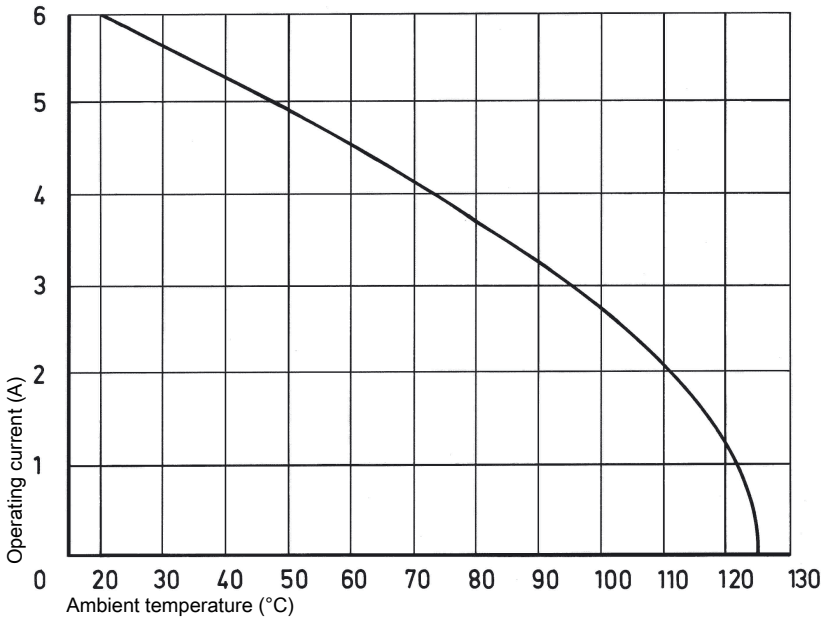
Railway classification	F4/I3 acc. to NFF 16-101/102

Commercial data

Packaging size	20
Net weight	32.88 g
Country of origin	Germany
European customs tariff number	85366990
eCl@ss	27460201 PCB connector (board connector)

Current carrying capacity

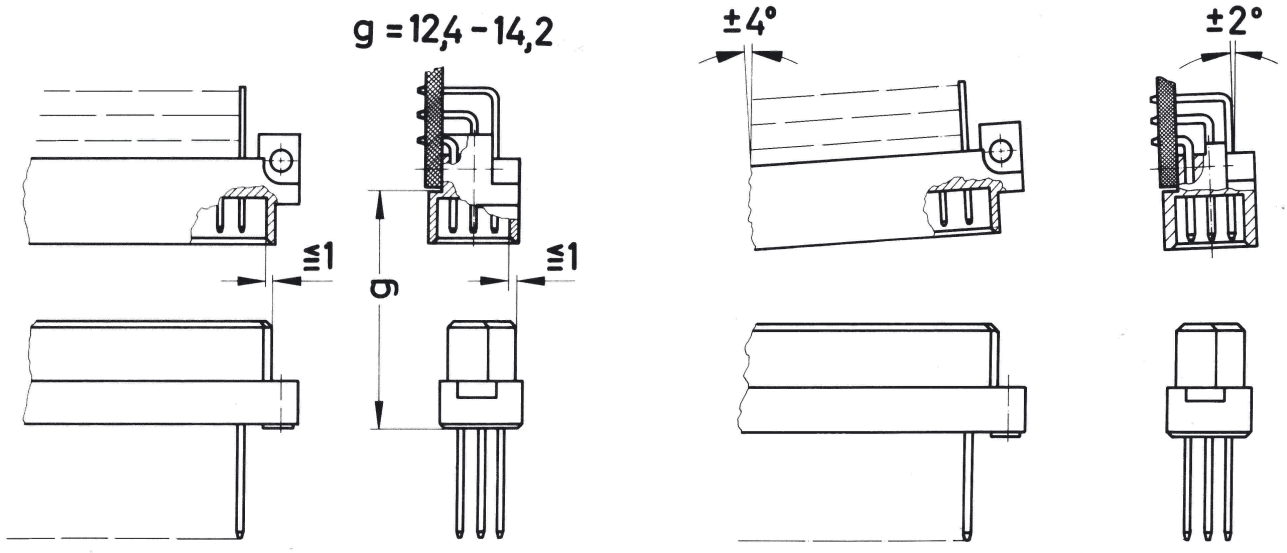
The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.
Measuring and testing techniques acc. to IEC 60512-5-2



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Mating conditions



To ensure reliable connections and prevent unnecessary damage, please refer to the application data diagrams. These recommendations are set out in IEC 60603-2.
The connectors should not be coupled and decoupled under electrical load.

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