#### **DATASHEET - FAZT-D20/1N**



Miniature circuit breaker (MCB), 20 A, 1p+N, characteristic: D

Powering Business Worldwide

FAZT-D20/1N Part no. Catalog No. 142513 Alternate Catalog FAZT-D20/1N

**EL-Nummer** 1666069

(Norway)

Similar to illustration

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Basic function			Miniature circuit-breakers
Number of poles			1 pole+N
Tripping characteristic			D
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	20
Rated switching capacity acc. to IEC/EN 60947-2	I <sub>cu</sub>	kA	20
Product range			FAZ-T

# **Technical data**

#### Electrical

Liberious			
Standards			IEC/EN 60947-2 EN 45545-2; IEC 61373
Rated voltage according to IEC/EN 60947-2	Un	V AC	240/415
Rated switching capacity acc. to IEC/EN 60947-2	I <sub>cu</sub>	kA	20
Rated insulation voltage	Ui	V	440
Rated frequency	f	Hz	50/60
Characteristic			B, C, D
Direction of incoming supply			as required
lifespan			
Electrical	Operations		≧ 4000
Mechanical	Operations		≧ 10000
Mechanical			

Standard front dimension	mm	45
Enclosure height	mm	80
Mounting width per pole	mm	17.5
Mounting		Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715
Degree of Protection		IP20
Terminals top and bottom		Twin-purpose terminals
Terminal protection		Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6
Terminal capacities	mm <sup>2</sup>	1 - 25
Tightening torque of fixing screws	N/m	max. 2.4
Thickness of busbar material	mm	0.8 (exept N 0.5 SU)
Mounting position		As required

#### Design verification as per IEC/EN 61439

boolgh vormoution do por 120/214 or 100		
In	Α	20
P <sub>vid</sub>	W	0
P <sub>vid</sub>	W	2.2
$P_{vs}$	W	0
P <sub>diss</sub>	W	0
	°C	-40
	°C	75
		linear, per +1 °C, results in a 0.5% reduction of current carrying capacity
	P <sub>vid</sub>	P <sub>vid</sub> W P <sub>vid</sub> W P <sub>vs</sub> W P <sub>diss</sub> W °C

IEC/EN 61439 design verification	
10.2 Strength of materials and parts	
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9 Insulation properties	
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

#### **Technical data ETIM 7.0**

(ecl@ss10.0.1-27-14-19-01 [AAB905014])

Built-in depth

Degree of protection (IP)

Ambient temperature during operating

Connectable conductor cross section multi-wired

Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

D Release characteristic 2 Number of poles (total) Number of protected poles Rated current Α 20 ٧ 230 Rated voltage ٧ 440 Rated insulation voltage Ui kV Rated impulse withstand voltage Uimp 4 Rated short-circuit breaking capacity Icn EN 60898 at 230  $\rm V$ kΑ 15 Rated short-circuit breaking capacity Icn EN 60898 at 400  $\rm V$ kΑ 15 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230  ${
m V}$ kA 20 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400  $\rm V$ kΑ 20 Voltage type AC Frequency Hz 50 - 60 3 **Current limiting class** Suitable for flush-mounted installation No Concurrently switching N-neutral Yes Over voltage category 3 Pollution degree 2 Additional equipment possible Yes Width in number of modular spacings 1.5

Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB)

mm

°C

mm<sup>2</sup>

70.5

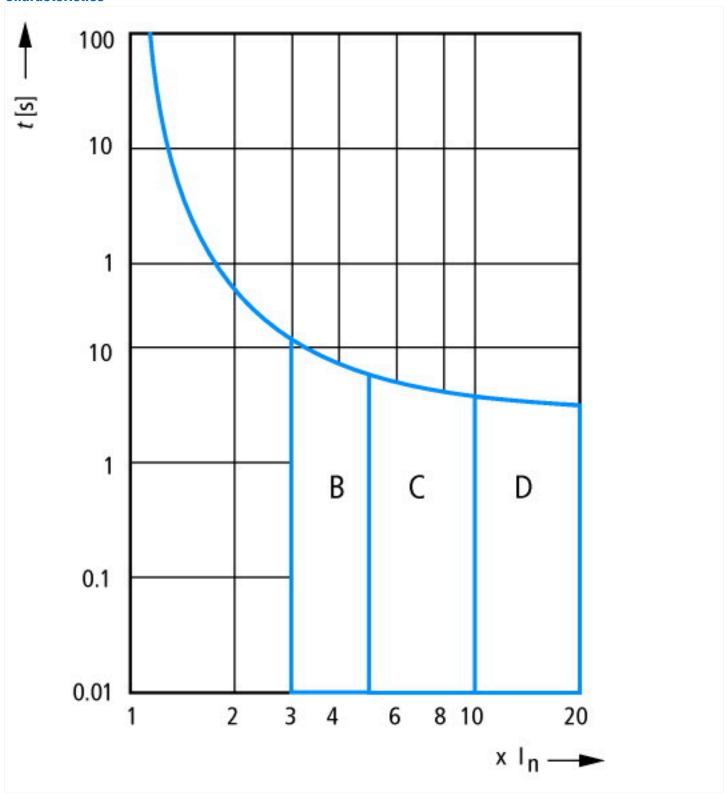
IP20

-25 - 75

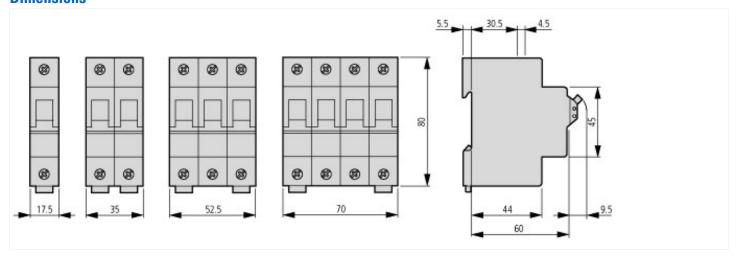
1 - 25

### **Characteristics**

Connectable conductor cross section solid-core



## **Dimensions**



# **Additional product information (links)**

Temperature dependency, derating

 $https://www.eaton.com/content/dam/eaton/technical documentation/technical-data-tables/Derating\ table\ FAZ\_T.pdf$