

### Over current switch, 2A, 1p, B-Char, AC

Part no. FAZT-B2/1 Article no. 240771 Catalog No. FAZT-B2/1



Similar to illustration

110	III/OF		gram
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Basic function			Miniature circuit breakers
Number of poles			1 pole
Tripping characteristic			В
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	2
Rated switching capacity acc. to IEC/EN 60947-2		kA	25
Product range			FAZ-T

#### **Technical data**

#### **Electrical**

Rated voltage	2.004.104.			
Rated frequency Rated switching capacity  Rated switching capacity  Rated switching capacity  Characteristic  Direction of incoming supply  Mechanical  Standard front dimension  Enclosure height  Mounting width per pole  Mounting  Mounting  Degree of Protection  Terminals top and bottom  Terminals top and bottom  Terminal protection  Terminal capacities  Tightening torque  Thickness of busbar material  F A B C D  Dogerations  B C, D  Dogono  as required  B C S  B C, D  COUDO  AS required  B C S  B C S  COUDO  AS required  AS S  B C S  COUDO  AS required  AS S  AS	Standards			IEC/EN 60947-2
Rated switching capacity  Characteristic  Lifespan  Operations  Direction of incoming supply  Mechanical  Standard front dimension  Enclosure height  Mounting width per pole  Mounting  Degree of Protection  Terminals top and bottom  Terminal protection  Terminal capacities  Termina	Rated voltage		V	240/415
Characteristic  Lifespan  Operations  Operations  Direction of incoming supply  Mechanical  Standard front dimension  Enclosure height  Mounting width per pole  Mounting width per pole  Mounting  Degree of Protection  Terminals top and bottom  Terminal protection  Terminal protection  Terminal capacities  Tightening torque  Thickness of busbar material  Degree of Book and the standard of the sta	Rated frequency	f	Hz	50/60
Lifespan Operations   Direction of incoming supply   Direction   Di	Rated switching capacity		kA	25
Direction of incoming supply  Mechanical  Standard front dimension mm 45 Enclosure height mm 80  Mounting width per pole mm 17.5  Mounting  Degree of Protection Protection  Terminals top and bottom Terminal protection  Terminal capacities mm² 1-25  Tightening torque Mm 2-2.4  Thickness of busbar material mm 0.8 (exept N 0.5 SU)	Characteristic			B, C, D
Mechanical Standard front dimension mm 45 Enclosure height mm 80 Mounting width per pole mm 17.5 Mounting Degree of Protection Ireminals top and bottom Terminal protection Terminal capacities mm² 1-25 Tightening torque mm 0.8 (exept N 0.5 SU)	Lifespan	Operations		20000
Standard front dimension mm 45 Enclosure height mm 80 Mounting width per pole mm 17.5 Mounting Degree of Protection IP20 Terminals top and bottom Terminal protection Terminal capacities mm² 1 - 25 Tightening torque mm 2 80  mm 45  mm 80  Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715  IP20 Truin-purpose terminals Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6  mm² 1 - 25  Tightening torque mm² 2 - 2.4  Thickness of busbar material mm 0.8 (exept N 0.5 SU)	Direction of incoming supply			as required
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 Terminal protection Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6  Terminal capacities mm² 1 - 25  Tightening torque Nm 2 - 2.4  Thickness of busbar material mm 0.8 (exept N 0.5 SU)	Mechanical			
Mounting width per pole mm 17.5  Mounting Cuick attachment with 3 latch positions for top-hat rail IEC/EN 60715  Degree of Protection IP20  Terminals top and bottom Terminal protection Terminal capacities mm² 1 - 25  Tightening torque Nm 2 - 2.4  Thickness of busbar material Terminal mm 0.8 (exept N 0.5 SU)	Standard front dimension		mm	45
Mounting Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715  Degree of Protection IP20  Terminals top and bottom Terminal protection Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6  Terminal capacities Nmm <sup>2</sup> 1 - 25  Tightening torque Nm 2 - 2.4  Thickness of busbar material Mm 0.8 (exept N 0.5 SU)	Enclosure height		mm	80
Degree of Protection  Terminals top and bottom  Terminal protection  Terminal capacities  Terminal capacities  Tightening torque  Thickness of busbar material  Terminal capacities  Terminal capacities  Terminal capacities  Terminal capacities  Tightening torque  Thickness of busbar material  Terminal capacities  Tightening torque  Tig	Mounting width per pole		mm	17.5
Terminals top and bottom  Terminal protection  Terminal capacities  Terminal capacities  Tightening torque  Thickness of busbar material  Terminal stop and bottom  Twin-purpose terminals  Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6  Town-purpose terminals  Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6  Thickness of busbar material  Twin-purpose terminals  Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6  Town-purpose terminals  Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6  Town-purpose terminals  Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6  Town-purpose terminals  Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6  Town-purpose terminals  Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6  Town-purpose terminals  Twin-purpose terminals	Mounting			Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715
Terminal protection Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6  mm² 1 - 25  Tightening torque Nm 2 - 2.4  Thickness of busbar material mm 0.8 (exept N 0.5 SU)	Degree of Protection			IP20
Terminal capacities mm <sup>2</sup> 1 - 25 Tightening torque Nm 2 - 2.4 Thickness of busbar material mm 0.8 (exept N 0.5 SU)	Terminals top and bottom			Twin-purpose terminals
Tightening torque Nm 2 - 2.4 Thickness of busbar material mm 0.8 (exept N 0.5 SU)	Terminal protection			Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6
Thickness of busbar material mm 0.8 (exept N 0.5 SU)	Terminal capacities		$\text{mm}^2$	1 - 25
	Tightening torque		Nm	2 - 2.4
Mounting position As required	Thickness of busbar material		mm	0.8 (exept N 0.5 SU)
	Mounting position			As required

# Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	2
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	1.4
Static heat dissipation, non-current-dependent	$P_{vs}$	W	0
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	-40
Operating ambient temperature max.		°C	75
			linear, per +1 °C, results in a 0.5% reduction of current carrying capacity
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.

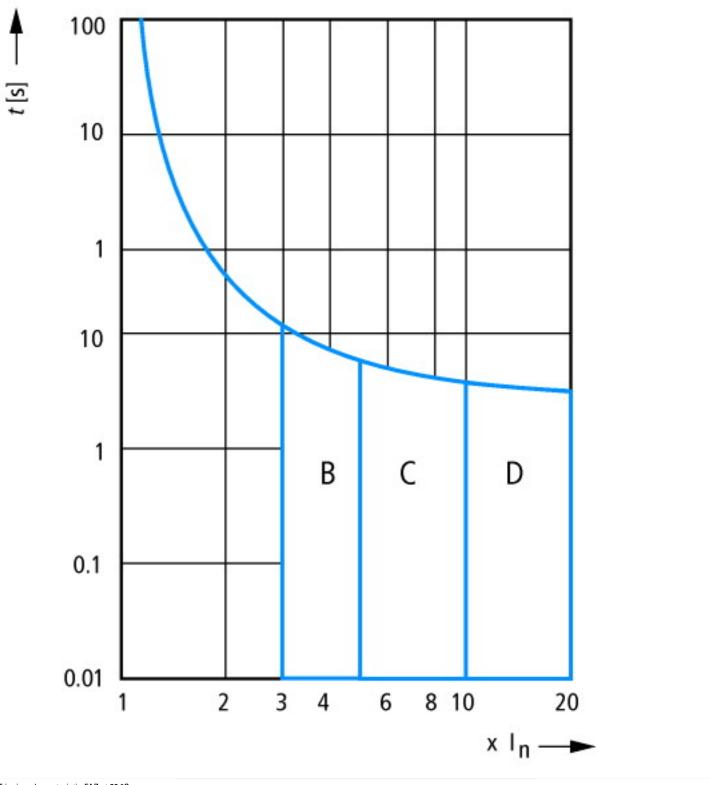
### **Technical data ETIM 6.0**

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

Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss8.1-27-14-19-01 [AAB905011])

[AAB905011])		
Release characteristic		В
Number of poles (total)		1
Number of protected poles		1
Nominal rated current	А	2
Nominal rated voltage	V	240
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	15
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	15
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	25
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	25
Voltage type		AC
Current limiting class		3
Frequency	Hz	50 - 60
Concurrently switching N-neutral		No
Suitable for flush-mounted installation		No
Over voltage category		3
Pollution degree		2
Width in number of modular spacings		1
Built-in depth	mm	70.5
Additional equipment possible		Yes
Degree of protection (IP)		IP20

# **Characteristics**



Tripping characteristic FAZ at 30 °C: B, C, D to IEC/EN 60898

# **Dimensions**

