### **DATASHEET - FAZT-B4/1**



## Miniature circuit breaker (MCB), 4 A, 1p, characteristic: B

FAZT-B4/1 Part no. Catalog No. 240777 Alternate Catalog FAZT-B4/1

**EL-Nummer** 1605554

(Norway)



Similar to illustration

Delivery program

belivery program			
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	4
Rated switching capacity acc. to IEC/EN 60947-2	I <sub>cu</sub>	kA	25
Product range			FAZ-T

# **Technical data**

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Standards			IEC/EN 60947-2
Rated voltage according to IEC/EN 60947-2	$U_n$	V AC	240
Rated switching capacity acc. to IEC/EN 60947-2	I <sub>cu</sub>	kA	25
Rated service short-circuit breaking capacity according to IEC/EN 60947-2	I <sub>cs</sub>		12,5 kA
Max operational voltage according to IEC/EN 60947-2		V AC	254
Rated switching capacity according to IEC/EN 60947-2 (max operational voltage)	I <sub>cu</sub>	kA	15
Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage)	I <sub>cs</sub>		7,5 kA
Max operational voltage DC according to IEC/EN 60947-2		V DC	60/pole
Rated voltage according to IEC/EN 60898-1	$U_n$	V AC	240
Rated switching capacity according to IEC/EN 60898-1	I <sub>cn</sub>	kA	15
Rated service short-circuit breaking capacity according to IEC/EN 60898-1	I <sub>cs</sub>		7,5 kA
Rated insulation voltage	$U_{i}$	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
Characteristic  Direction of incoming supply  ifespan  Electrical	·	112	B, C, D as required ≥ 4000

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	$mm^2$	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

hnical data for design verification			
Rated operational current for specified heat dissipation	In	Α	4
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 <sub>vs</sub>	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
C/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 we provide heat dissipation data for the devices.

## **Technical data ETIM 7.0**

10.12 Electromagnetic compatibility

10.11 Short-circuit rating

10.13 Mechanical function

Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])  Release characteristic  Roumber of poles (total)  Number of protected poles  Rated current  Rated current  Rated voltage  Rated voltage  Rated insulation voltage Ui  Rated insulation voltage Uipp  Rated short-circuit breaking capacity Icn EN 60898 at 230 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  Voltage type  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	Toomitour data Erim 7.0				
Release characteristic  Release (total)  Number of poles (total)  Number of protected poles  Rated current  Rated voltage  V 240  Rated insulation voltage Uimp  Rated short-circuit breaking capacity Icn EN 60898 at 230 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  Voltage type  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  Voltage type  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  RAC  RAC  RAC  RAC  RAC  RAC  RAC  RA	Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)				
Number of poles (total)  Number of protected poles  Rated current  A 4  Rated voltage  Rated voltage Uimp  Rated inpulse withstand voltage Uimp  Rated short-circuit breaking capacity Icn EN 60898 at 230 V  Rated short-circuit breaking capacity Icn EN 60898 at 400 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  Voltage type  1  1  1  1  1  1  1  1  1  1  1  1  4  4	Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])				
Number of protected poles  Rated current  A 4  Rated voltage  V 240  Rated insulation voltage Ui  Rated insulation voltage Uimp  Rated short-circuit breaking capacity Icn EN 60898 at 230 V  Rated short-circuit breaking capacity Icn EN 60898 at 400 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  Voltage type  1  A 4  4  4  4  4  4  5  6  6  6  6  6  6  6  6  6  7  6  6  6	Release characteristic B				
Rated current Rated voltage V 240 Rated insulation voltage Ui Rated impulse withstand voltage Uimp Rated short-circuit breaking capacity Icn EN 60898 at 230 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icu EN 60898 at 400 V Rated short-circuit breaking capacity Icu EN 60897-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V RATED SAME SAME SAME SAME SAME SAME SAME SAME	Number of poles (total)		1		
Rated voltage V 240 Rated insulation voltage Ui V 440 Rated impulse withstand voltage Uimp kV 4 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	Number of protected poles		1		
Rated insulation voltage Ui  Rated impulse withstand voltage Uimp  Rated short-circuit breaking capacity Icn EN 60898 at 230 V  Rated short-circuit breaking capacity Icn EN 60898 at 400 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  RA  25  Rottage type  AC	Rated current	Α	4		
Rated impulse withstand voltage Uimp  kV 4  Rated short-circuit breaking capacity Icn EN 60898 at 230 V  Rated short-circuit breaking capacity Icn EN 60898 at 400 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  kA 25  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  kA 25  Voltage type  AC	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	Rated insulation voltage Ui	V	440		
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	Rated impulse withstand voltage Uimp	kV	4		
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	Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	15		
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kA 25  Voltage type AC	Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	15		
Voltage type AC	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		
Frequency Hz 50 - 60	Voltage type		AC		
	Frequency	Hz	50 - 60		

observed.

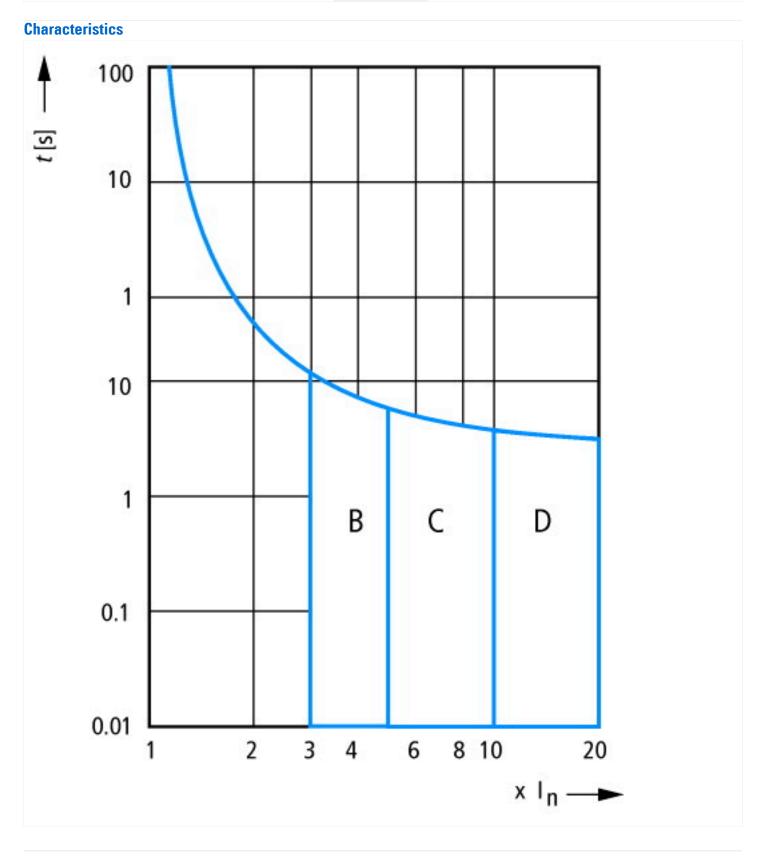
observed.

Is the panel builder's responsibility. The specifications for the switchgear must be

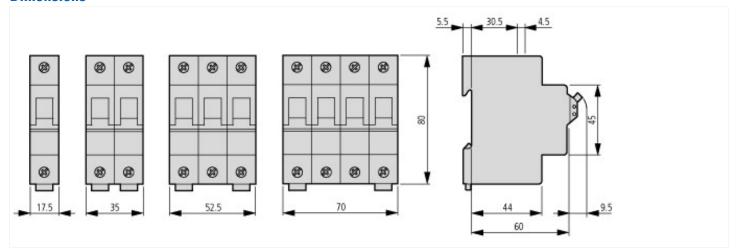
Is the panel builder's responsibility. The specifications for the switchgear must be

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Current limiting class		3
Suitable for flush-mounted installation		No
Concurrently switching N-neutral		No
Over voltage category		3
Pollution degree		2
Additional equipment possible		Yes
Width in number of modular spacings		1
Built-in depth	mm	70.5
Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 75
Connectable conductor cross section multi-wired	mm²	1 - 25
Connectable conductor cross section solid-core	mm²	1 - 25



### **Dimensions**



## **Additional product information (links)**

Temperature dependency, derating

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