# DATASHEET - FAZT-B3/1

Miniature circuit breaker (MCB), 3A, 1p, B-Char, AC





Part no.FAZT-B3/1Catalog No.240772Alternate CatalogFAZT-B3/1No.EL-Nummer1605553(Norway)

Similar to illustration

#### **Delivery 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	А	3
Rated switching capacity acc. to IEC/EN 60947-2	I <sub>cu</sub>	kA	25
Product range			FAZ-T

## **Technical data**

Electrical			
Standards			IEC/EN 60947-2
Rated voltage according to IEC/EN 60947-2	Un	V AC	240
Rated switching capacity acc. to IEC/EN 60947-2	l <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	Un	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	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

10.11 Short-circuit rating Is the panel builder's responsibility. The specifications for the switchgear must observed.   10.12 Electromagnetic compatibility Is the panel builder's responsibility. The specifications for the switchgear must observed.	echnical data for design verification			
Equipment heat dissipation, curvent-dependent     Poil     Weil     Static heat dissipation, non-current-dependent     Price     Weil     Output displation, non-current-dependent     Price     Output displation, non-current dependent	Rated operational current for specified heat dissipation	I <sub>n</sub>	А	3
Natio that dissipation, non-current-dependent     Pain     West       Heat dissipation capacity     Pains     West     0       Operating ambient temperature min.     "C     40       Operating ambient temperature max.     "C     40       VEX 61439 design verification     To mean, per +1 °C, results in a 0.5% reduction of current carrying capacity       102.2 Strongth of materials and parts     Meets the product standard's requirements.       102.3 Verification of resistance     Meets the product standard's requirements.       102.3 Verification of resistance of insulating materials to abnormal heat     Meets the product standard's requirements.       102.4 Verification of resistance of insulating materials to abnormal heat     Meets the product standard's requirements.       102.3 Verification of resistance of insulating materials to abnormal heat     Meets the product standard's requirements.       102.4 Resistance to ultra-violet (WI redutation     Meets the product standard's requirements.       103.2 Verification against electric effects     Des not apply, since the entire switchgaar needs to be evaluated.       102.5 Interperature stance     Meets the product standard's requirements.       103.0 periods     Meets the product standard's requirements.       104.0 Geranorice apalop, since the entire switchgaar needs to be evaluated.<	Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Heat dissipation capacity     Peak     W       Operating ambient temperature min.     *	Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	2.5
Operating ambient temperature min.     Operating ambient temperature max.     Image model     Image	Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Operating ambient temperature max.     PC     7       CEN 61498 design verification     inser, per +1°C, results in a 0.5% reduction of current carrying capacity       10.2 Strength of materials and parts     inser, per +1°C, results in a 0.5% reduction of current carrying capacity       10.2.2 Corrosion resistance     Meets the product standard's requirements.       10.2.3.1 Verification of the insulating materials to normal heat     Meets the product standard's requirements.       10.2.3.2 Verification of resistance of insulating materials to abnormal heat     Meets the product standard's requirements.       10.2.3.3 Verification of resistance of insulating materials to abnormal heat     Meets the product standard's requirements.       10.2.4 Meets the ut ut -violet (UV) radiation     Meets the product standard's requirements.       10.2.5 Mechanical inpact     Meets the product standard's requirements.       10.3.2 Merification 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 of ASSEMBLIES     Does not apply, since the entire switchgear needs to be evaluated.       10.6 Accornation is soluching davices and components     Des not apply, since the entire switchgear needs to be evaluated.       10.5 Accornation is soluching davices and components     Enterpanel builde	Heat dissipation capacity	P <sub>diss</sub>	W	0
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10.12 Electromagnetic compatibility observed.   10.13 Mechanical function Image: Compatibility of the information in the instruction	10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.11 Short-circuit rating			Is the panel builder's responsibility. The specifications for the switchgear mus observed.
	10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear mus 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**

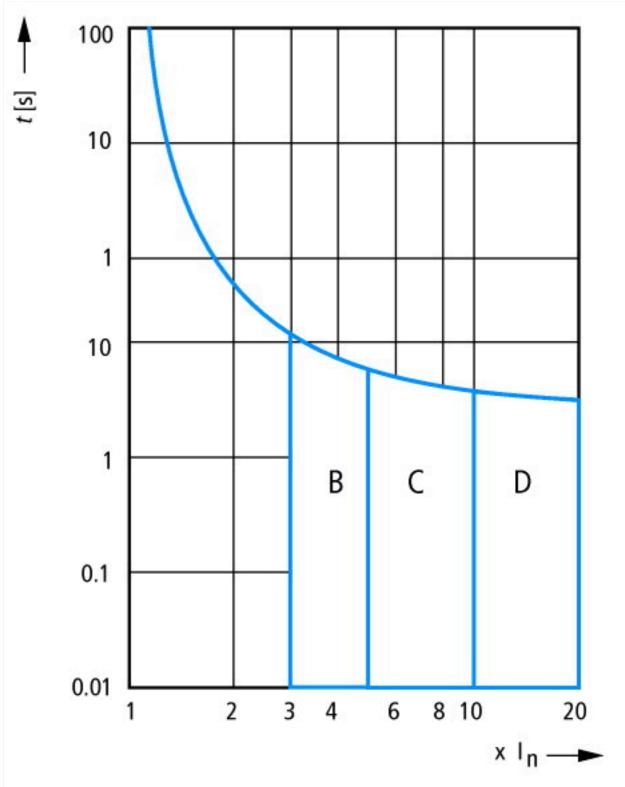
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])

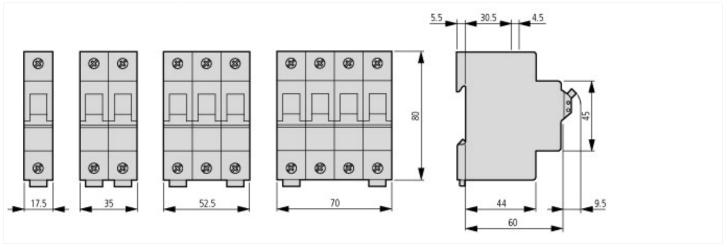
(		
Release characteristic		В
Number of poles (total)		1
Number of protected poles		1
Rated current	А	3
Rated voltage	V	240
Rated insulation voltage Ui	V	440
Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	15
Rated short-circuit breaking capacity 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
Frequency	Hz	50 - 60

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

# **Characteristics**



#### **Dimensions**



## Additional product information (links)

Temperature dependency, derating

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