DATASHEET - FAZT-C16/3N



Miniature circuit breaker (MCB), 16A, 3Np, C-Char, AC



Part no.	FAZT-C16/3N
Catalog No.	241165
Alternate Catalog	FAZT-C16/3N
No.	
EL-Nummer	1605698
(Norway)	

Delivery program

Basic function			Miniature circuit-breakers
Number of poles			3 pole+N
Tripping characteristic			C
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	А	16
Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	25
Product range			FAZ-T

Technical data

Electrical

IEC/EN 60947-2 Standards Rated voltage according to IEC/EN 60947-2 Un V AC 415 25 Rated switching capacity acc. to IEC/EN 60947-2 kΑ I_{cu} Rated service short-circuit breaking capacity according to IEC/EN 60947-2 12,5 kA I_{cs} Max operational voltage according to IEC/EN 60947-2 V AC 440 Rated switching capacity according to IEC/EN 60947-2 (max operational voltage) kA 15 I_{cu} Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max 7,5 kA I_{cs} operational voltage) 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 415 Rated switching capacity according to IEC/EN 60898-1 kA 15 I_{cn} Rated service short-circuit breaking capacity according to IEC/EN 60898-1 7,5 kA I_{cs} ٧ Rated insulation voltage Ui 440 Rated frequency f Hz 50/60 Characteristic B, C, D Direction of incoming supply as required lifespan Operations ≧ 4000 Electrical ≧ 10000 Mechanical Operations Mechanical Standard front dimension mm 45 Enclosure height mm 80 Mounting width per pole 17.5 mm Mounting Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715 IP20 **Degree of Protection** Twin-purpose terminals Terminals top and bottom Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6 Terminal protection 1 - 25 **Terminal capacities** mm² max. 2.4 Tightening torque of fixing screws N/m Thickness of busbar material 0.8 (exept N 0.5 SU) mm Mounting position As required

Design verification as per IEC/EN 61439

lechnical data for design verification			
Rated operational current for specified heat dissipation	I _n	А	·

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16

Heat dissipation per pole, current-dependent	P _{vid}	W	0
		w	7.2
Equipment heat dissipation, current-dependent	P _{vid}		
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	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 7.0

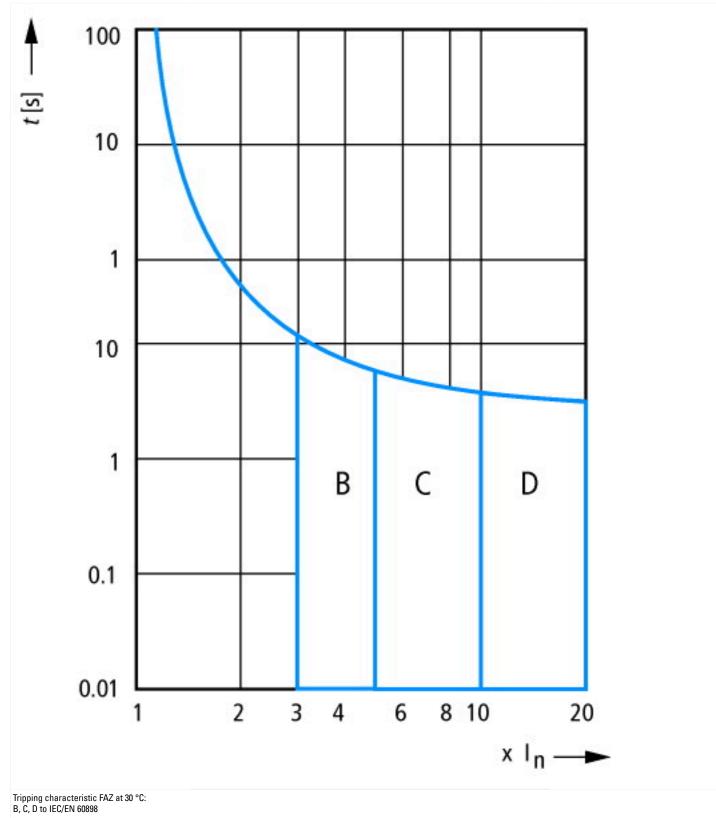
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

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])

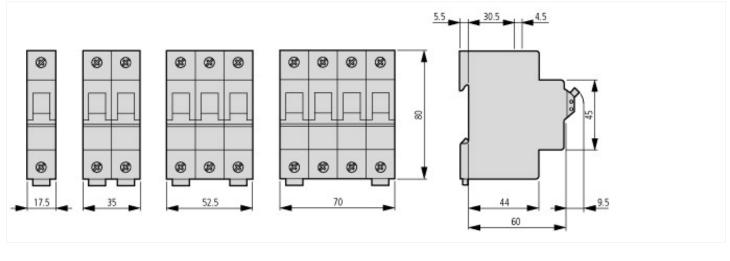
Release characteristic		C
Number of poles (total)		4
Number of protected poles		3
Rated current	А	16
Rated voltage	V	230
Rated insulation voltage Ui	V	440
Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	15
Rated short-circuit breaking capacity 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		Yes

Over voltage category			3
Pollution degree			2
Additional equipment possible			Yes
Width in number of modular spacings			4
Built-in depth	mi	ım	70.5
Degree of protection (IP)			IP20
Ambient temperature during operating	°C	C	-25 - 75
Connectable conductor cross section multi-wired	mi	nm²	1 - 25
Connectable conductor cross section solid-core	mi	nm²	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