

Over current switch, 12A, 3Np, C-Char, AC

Powering Business Worldwide*

Part no. FAZT-C12/3N Article no. 241150 Catalog No. FAZT-C12/3N

Similar to illustration

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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	Α	12
Rated switching capacity acc. to IEC/EN 60947-2		kA	25
Product range			FAZ-T

Technical data

Electrical

Standards			IEC/EN 60947-2
Rated voltage		V	240/415
Rated frequency	f	Hz	50/60
Rated switching capacity		kA	25
Characteristic			B, C, D
Lifespan	Operations		20000
Direction of incoming supply			as required
Machaniaal			

Mechanical

modiumoui		
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	Nm	2 - 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

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	12
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	6.8
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.

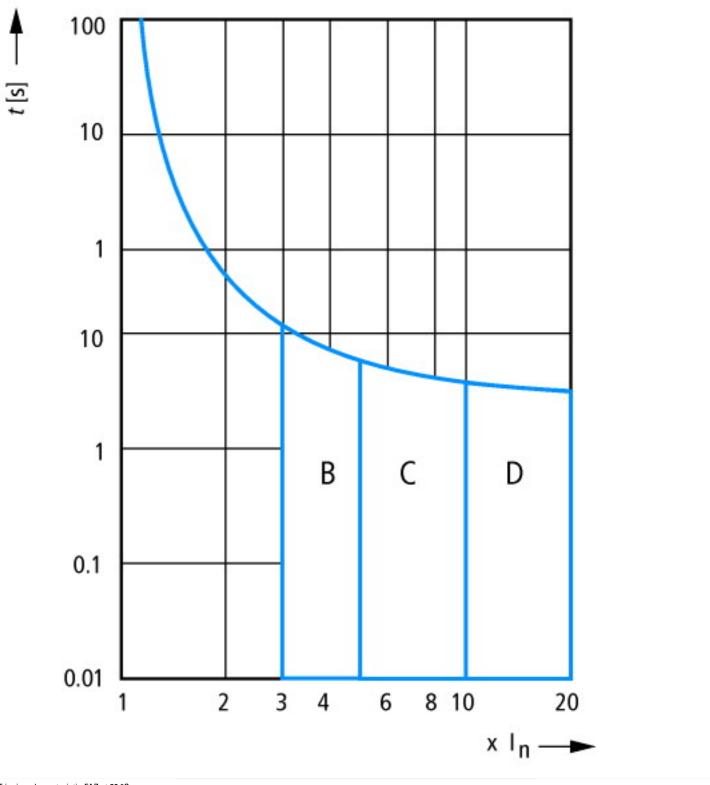
Technical data ETIM 6.0

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])

Number of poles (total) Number of protected poles Nominal rated current Nominal rated current Nominal rated voltage Nominal rated vo			_
Number of protected poles Nominal rated current Nominal rated voltage Nominal rated current Nominal rated voltage Nominal rated volt	Release characteristic		С
Nominal rated current Nominal rated voltage 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 RA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RA 25 Current limiting class Frequency Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RA 25 RAC Current limiting class Frequency Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RA 25 RAC Solution distance Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RA 25 RAC 3 Frequency Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RA 25 RAC 3 Frequency Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RA 25 RAC 3 Frequency Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RA 25 RAC 3 Frequency Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RA 25 RAC 3 Frequency RAC 3 Frequency Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RA 25 RAC 3 Frequency RAC 3 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RA 25 RAC 3 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RA 25 RAC 3 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RA 25 RAC 3 RAC 3 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RA 25 RAC 3 RAC 3 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RA 25 RAC 3	Number of poles (total)		4
Nominal rated voltage 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 230 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 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-c	Number of protected poles		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 25 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 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 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 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 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 25 Rated short-circuit breaking capacity Icu IEC 60947	Nominal rated current	А	12
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	Nominal rated voltage	V	230
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 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RA Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RA Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V RA	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 Current limiting class 3 Grequency Hz 50 - 60 Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth kA 25 AC AC 3 Built-in depth AC AC 3 Built-in depth AC AC AC AC AC AC AC AC AC A	Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	15
ACCUrrent limiting class Grequency Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Suitable for flush-mounted means are suitable for flush-mounted installation Over voltage category The suitable for flush-mounted installation The suitable flush-mounted installation The suit	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	25
Current limiting class Grequency Hz 50 - 60 Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Collution degree Width in number of modular spacings Built-in depth 3 3 4 8 8 8 8 8 8 8 8 8 8 8 8	Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	25
Frequency Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth Hz 50 - 60 Yes No 2 No 3 2 2 4 Built-in depth mm 70.5	Voltage type		AC
Concurrently switching N-neutral Suitable for flush-mounted installation No Over voltage category Suittin degree Vidth in number of modular spacings Midth in depth Mm To.5	Current limiting class		3
Suitable for flush-mounted installation Over voltage category Sollution degree 2 Width in number of modular spacings Mo mm 70.5	Frequency	Hz	50 - 60
Over voltage category 2 Voltution degree Width in number of modular spacings 4 Built-in depth mm 70.5	Concurrently switching N-neutral		Yes
Pollution degree 2 Width in number of modular spacings 4 Built-in depth mm 70.5	Suitable for flush-mounted installation		No
Nidth in number of modular spacings 4 Built-in depth mm 70.5	Over voltage category		3
Built-in depth mm 70.5	Pollution degree		2
	Width in number of modular spacings		4
Additional equipment possible Yes	Built-in depth	mm	70.5
	Additional equipment possible		Yes
Degree of protection (IP)	Degree of protection (IP)		IP20

Characteristics



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

Dimensions

