DATASHEET - FAZT-C10/4



Miniature circuit breaker (MCB), 10A, 4p, C-Char, AC

Powering Business Worldwide*

Part no. FAZT-C10/4
Catalog No. 240959
Eaton Catalog No. FAZT-C10/4
EL-Nummer 0001691410
(Norway)

Similar to illustration

Technical data Electrical

Rated voltage according to IEC/EN 80947-2 Un V AC 415 Rated switching capacity acc. to IEC/EN 80947-2 Iqu KA 25 Max operational voltage according to IEC/EN 80947-2 Iqu VAC 40 Rated switching capacity according to IEC/EN 80947-2 (max operational voltage) Iqu VAC 40 Rated switching capacity according to IEC/EN 80947-2 (max operational voltage) Iqu VAC 40 Rated switching capacity according to IEC/EN 80947-2 (max operational voltage) Iqu VAC 40 Max operational voltage DC according to IEC/EN 80947-2 Iqu VAC 40 Rated switching capacity according to IEC/EN 80988-1 Iqu VAC 40 Rated switching capacity according to IEC/EN 80988-1 Iqu VAC 40 Rated switching capacity according to IEC/EN 80988-1 Iqu VAC 40 Rated switching capacity according to IEC/EN 80988-1 Iqu VAC 40 Rated switching capacity according to IEC/EN 80988-1 Iqu VAC 40 Rated switching capacity according to IEC/EN 80988-1 Iqu VAC 40	Electrical			
Rated switching capacity acc. to IEC/EN 60947-2 Icu IA 25 kA Max operational voltage according to IEC/EN 60947-2 Icu 12.5 kA Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage) Icu VAC 40 Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage) Icu VAC 45 Max operational voltage of Cacording to IEC/EN 60947-2 (max operational voltage) Icu VAC 8000e Max operational voltage of Cacording to IEC/EN 60947-2 (max operational voltage) Un VAC 41 Rated switching capacity according to IEC/EN 6098-1 Un VAC 41 Rated switching capacity according to IEC/EN 6098-1 Icu VA 44 Rated switching capacity according to IEC/EN 6098-1 Icu VA 44 Rated switching capacity according to IEC/EN 6098-1 Icu VA 44 Rated switching capacity according to IEC/EN 6098-1 Icu VA 44 Rated switching capacity according to IEC/EN 6098-1 Icu VA 40 Rated switching capacity according to IEC/EN 6098-1 Icu V	Standards			IEC/EN 60947-2
Rated service short-circuit breaking capacity according to IEC/EN 60947-2 les V AC 440 Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage) les V AC 440 Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage) les V DC 60/pole Rated service short-circuit breaking capacity according to IEC/EN 60947-2 V DC 60/pole Rated service short-circuit breaking capacity according to IEC/EN 60989-1 Un V AC 415 Rated service short-circuit breaking capacity according to IEC/EN 60989-1 In V AC 415 Rated service short-circuit breaking capacity according to IEC/EN 60989-1 In V AC 415 Rated service short-circuit breaking capacity according to IEC/EN 60989-1 In V AC 415 Rated insulation voltage In V Y AC 440 Rated insulation voltage In V Y AC 440 Ideracteristic In Electrical In	Rated voltage according to IEC/EN 60947-2	U_n	V AC	415
Max operational voltage according to IEC/EN 60947-2 V AC 44 Rated switching capacity according to IEC/EN 60947-2 (max operational voltage) I _C IA 25 Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage) V DC 60pole Rated voltage according to IEC/EN 6098-1 V DC 415 Rated switching capacity according to IEC/EN 6098-1 I _C V AC 415 Rated service short-circuit breaking capacity according to IEC/EN 6098-1 I _C V AC 40 Rated frequency f V 40 40 Rated frequency f V 40 40 Characteristic g V 400 40 Direction of inoming supply g V 400 40 Ifespan g V 400 40 Mechanical g V 4000 40 Mechanical g V 4000 40 Mechanical g M 45 400 Mechanical g M <td>Rated switching capacity acc. to IEC/EN 60947-2</td> <td>I_{cu}</td> <td>kA</td> <td>25</td>	Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	25
Rated switching capacity according to IEC/EN 60947-2 (max operational voltage) As operational voltage) As operational voltage) As operational voltage DC according to IEC/EN 60947-2 (max operational voltage) As operational voltage DC according to IEC/EN 60947-2 Rated voltage according to IEC/EN 60984-1 Rated voltage according to IEC/EN 60988-1 Rated voltage according to IEC/EN 60988-1 Rated voltage according to IEC/EN 60988-1 Rated insulation voltage Rated insulation volta	Rated service short-circuit breaking capacity according to IEC/EN 60947-2	I _{cs}		12,5 kA
Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage) case of Sopole control 60 (pole) Max operational voltage DC according to IEC/EN 60984-1 Un V DC 60 (pole) Rated switching capacity according to IEC/EN 60988-1 Icn IS 15 Rated switching capacity according to IEC/EN 60988-1 Icn ICN 40 15 Rated insulation voltage Icn ICN 40	Max operational voltage according to IEC/EN 60947-2		V AC	440
Max operational voltage) V DC 60/pole Max operational voltage DC according to IEC/EN 60894-1 Un V AC 415 Rated switching capacity according to IEC/EN 60898-1 Icn KA 15 Rated switching capacity according to IEC/EN 60898-1 Ics 7.5 kA Rated insulation voltage Ui V 440 Rated insulation voltage Back of So/Go Back of College Col	Rated switching capacity according to IEC/EN 60947-2 (max operational voltage)	I _{cu}	kA	25
Rated voltage according to IEC/EN 60898-1 Rated switching capacity according to IEC/EN 60898-1 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Rated insulation voltage Rated frequency Rated Frequ	Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage)	I _{cs}		12,5 kA
Rated switching capacity according to IEC/EN 60898-1 Ics 7,5 kA Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Ics 7,5 kA Rated insulation voltage Ui 40 Rated frequency It 50/60 Characteristic Biccino if incoming supply Iffespan It 60/60 Electrical Operations Operations Operations Vector Information (Importance Information) Information (Importance Information) Importance Information (Importance Information) Importance Information (Importance Information) Importance Information Importance Importance Information Importance Importance Information Importance I	Max operational voltage DC according to IEC/EN 60947-2		V DC	60/pole
Rated service short-circuit breaking capacity according to IEC/EN 60898-1	Rated voltage according to IEC/EN 60898-1	Un	V AC	415
Rated insulation voltage Rated frequency f H2 50/60 Characteristic B, C, D incection of incoming supply lifespan Electrical Operations Mechanical Operations Standard front dimension	Rated switching capacity according to IEC/EN 60898-1	I _{cn}	kA	15
Rated frequency Characteristic Characteristic Chroming supply Lifespan Electrical Mechanical Mechanical Mechanical Mechanical Mechanical Mechanical Mechanical Standard front dimension Enclosure height Mounting width per pole Mounting width per pole Mounting width per pole Mounting width per pole Mounting width per pole Terminals top and bottom Terminals top and bottom Terminal protection Terminal capacities Tightening torque of fixing screws Tightening torque of fixing screws Thickness of busbar material Terminals top and busbar material Terminal torque of fixing screws Tightening	Rated service short-circuit breaking capacity according to IEC/EN 60898-1	I _{cs}		7,5 kA
Characteristic Direction of incoming supply lifespan Characteristic	Rated insulation voltage	U_{i}	V	440
Direction of incoming supply lifespan Electrical Operations Poperations Pop	Rated frequency	f	Hz	50/60
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 1P20 Terminals top and bottom 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 mm² 1 - 25 Tightening torque of fixing screws N/m max. 2.4 Thickness of busbar material mm 0.8 (exept N 0.5 SU)	Characteristic			B, C, D
Electrical Operations ≥ 4000 Mechanical Operations ≥ 10000 Mechanical Standard front dimension	Direction of incoming supply			as required
Mechanical Operations ≥ 10000 Mechanical 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 P20 Terminals top and bottom Twin-purpose terminals Terminal protection Twin-purpose terminals Terminal capacities mm² 1 - 25 Tightening torque of fixing screws N/m max. 2.4 Thickness of busbar material mm 0.8 (exept N 0.5 SU)	lifespan			
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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 protection Terminal capacities mm² 1-25 Tightening torque of fixing screws My/m max. 2.4 Thickness of busbar material Mounting mm 45 Terminal capacities mm² 1-25 Tightening torque of fixing screws mm 0.8 (exept N 0.5 SU)	Mechanical	Operations		≧ 10000
Enclosure height mm 80 Mounting width per pole mm 17.5 Mounting Degree of Protection Protection Prominals top and bottom Terminal protection Protection Protection Prominal protection	Mechanical			
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 IP20 Terminal capacities IP30 Terminal capacities IP30 Tightening torque of fixing screws IP30 Thickness of busbar material IP30 IP30 Tightening torque of fixing screws IP30 N/m max. 2.4 Thickness of busbar material IP50 Tightening torque of fixing screws IP30 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 IP20 Terminals top and bottom Terminal protection Terminal capacities Tightening torque of fixing screws Thickness of busbar material Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715 IP20 Twin-purpose terminals Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6 Twin-purpose terminals Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6 Mm 0.8 (exept N 0.5 SU)	Enclosure height		mm	80
Degree of Protection IP20 Terminals top and bottom Terminal protection IP20 Terminal protection IP20 Terminal capacities Imm ² 1 - 25 Tightening torque of fixing screws IN/m max. 2.4 Thickness of busbar material IP20 Tightening torque of fixing screws IN/m max. 2.4 Thickness of busbar material IP20 Tightening torque of fixing screws IP20 Tightening torque of fixi	Mounting width per pole		mm	17.5
Terminals top and bottom Terminal protection Terminal capacities Tightening torque of fixing screws Thickness of busbar material Terminal capacities Twin-purpose terminals Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6 Township torque of fixing screws N/m max. 2.4 Thickness of busbar material mm 0.8 (exept N 0.5 SU)	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 Terminal capacities mm² 1 - 25 Tightening torque of fixing screws N/m max. 2.4 Thickness of busbar material mm 0.8 (exept N 0.5 SU)	Degree of Protection			IP20
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)	Terminals top and bottom			Twin-purpose terminals
Tightening torque of fixing screws N/m max. 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		mm^2	1 - 25
	Tightening torque of fixing screws		N/m	max. 2.4
Mounting position As required	Thickness of busbar material		mm	0.8 (exept N 0.5 SU)
	Mounting position			As required

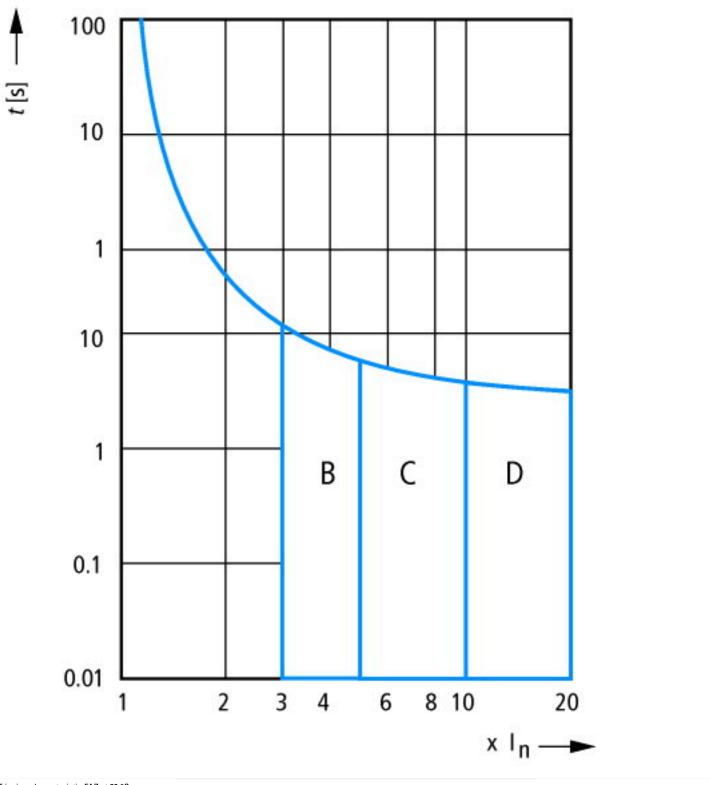
Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	10
Heat dissipation per pole, current-dependent	P_{vid}	W	0
Equipment heat dissipation, current-dependent	P_{vid}	W	6.1
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			

0.2 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.
0.3 Degree of protection of ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
0.4 Clearances and creepage distances	Meets the product standard's requirements.
0.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
0.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
0.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
0.8 Connections for external conductors	Is the panel builder's responsibility.
0.9 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.
0.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
0.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear mus observed.
0.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear mus observed.
0.13 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		С			
Number of poles (total)		4			
Number of protected poles		4			
Rated current	А	10			
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	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



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

Dimensions

