DATASHEET - FAZT-B25/3N



Miniature circuit breaker (MCB), 25A, 3Np, B-Char, AC



Part no. FAZT-B25/3N Catalog No. 241115 Eaton Catalog No. FAZT-B25/3N EL-Nummer 0001691332 (Norway)

Similar to illustration

Technical data

Rated voltage according to IEC/EN 60947-2 Un V AC 4 Rated switching capacity acc. to IEC/EN 60947-2 Ica ICA ACA 25. ACA Max operational voltage according to IEC/EN 60947-2 Ica VAC 40 Rated switching capacity according to IEC/EN 60947-2 (max operational voltage) Ica VAC 40 Rated switching capacity according to IEC/EN 60947-2 (max operational voltage) Ica VAC 40 Rated switching capacity according to IEC/EN 60947-2 (max operational voltage) Ica VAC 40 Rated switching capacity according to IEC/EN 60947-2 Ica VAC 40 Rated voltage DC according to IEC/EN 60987-1 Ica VAC 40 Rated voltage according to IEC/EN 60987-1 Ica VAC 40 Rated switching capacity according to IEC/EN 60988-1 Ica VAC 40 Rated switching capacity according to IEC/EN 60988-1 Ica VAC 40 Rated switching capacity according to IEC/EN 60988-1 Ica VAC 40 Rated switching capacity according to IEC/EN 60988-1 Ica VAC 40	Electrical			
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Rated service short-circuit breaking capacity according to IEC/EN 60947-2 les V AC 440 Rated swritching capacity according to IEC/EN 60947-2 (max operational voltage) lou kA 15 Rated swritching capacity according to IEC/EN 60947-2 (max operational voltage) les V DC 60/pole Rated swritching capacity according to IEC/EN 60947-2 V DC 60/pole Rated voltage according to IEC/EN 60989-1 V DC 415 Rated swritching capacity according to IEC/EN 60989-1 lon V AC 415 Rated swritching capacity according to IEC/EN 60989-1 lon V AC 415 Rated swritching capacity according to IEC/EN 60989-1 lon V AC 415 Rated swritching capacity according to IEC/EN 60989-1 lon V AC 416 Rated swritching capacity according to IEC/EN 60989-1 lon V AC 416 Rated swritching capacity according to IEC/EN 60989-1 lon A 400 Rated frequency lon B Lo D Rated frequency lone B Lo D Iffeepan lone <t< td=""><td>Rated voltage according to IEC/EN 60947-2</td><td>U_n</td><td>V AC</td><td>415</td></t<>	Rated voltage according to IEC/EN 60947-2	U_n	V AC	415
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Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage) les V DC 60/pole Max operational voltage DC according to IEC/EN 60987-2 V DC 60/pole Rated voltage according to IEC/EN 60988-1 In V AC 15 Rated service short-circuit breaking capacity according to IEC/EN 60988-1 Ics 7,5 kA Rated insulation voltage Ics V M 440 Rated frequency f Hz 90/60 Characteristic B, C, D B, C, D Direction of incoming supply accupations accupations accupations If Electrical Operations ≥ 4000 Advanced Mechanical Operations > 10 Advanced Mounting Immediate in the problem of the	Max operational voltage according to IEC/EN 60947-2		V AC	440
Max operational voltage DC according to IEC/EN 60894-2 Rated voltage according to IEC/EN 60898-1 Rated switching capacity according to IEC/EN 60898-1 Rated switching capacity according to IEC/EN 60898-1 Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated frequency Direction of incoming supply Iffespan Releatrical Mechanical Poerations Releatrical Mounting width per pole Mounting width per pole Mounting width per pole Mounting Mounting Poerations Degree of Protection Terminal capacities Tightening torque of fixing screws Tight and screws Valo Valo 440 440 440 440 440 440 440 4	Rated switching capacity according to IEC/EN 60947-2 (max operational voltage)	I _{cu}	kA	15
Rated voltage according to IEC/EN 60898-1 Rated switching capacity according to IEC/EN 60898-1 Rated switching capacity according to IEC/EN 60898-1 Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated frequency Rated Frequenc	Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage)	I _{cs}		7,5 kA
Rated swritching capacity according to IEC/EN 60898-1 Icn kA 15 Rated service short-circuit breaking capacity according to IEC/EN 60898-1 Ics 7,5 kA Rated insulation voltage Ui V 440 Rated frequency f Hz 50/60 Characteristic B, C, D Characteristic B, C, D Direction of incoming supply a required Ifespan B, C, D B Mechanical Operations ≥ 4000 Mechanical Operations ≥ 10000 Mechanical Mounting mm 45 Mounting width per pole mm 80 Mounting width per pole mm 17.5 Mounting pi20 pi20 Terminals top and bottom pi20 pi20 Terminals top and bottom pi20 pi20 Terminal protection pi20 pi20 Terminal capacities mm² 1-25 Tightening torque of fixing screws nm² 1-25 Tightening torque of fixing screws nm 08 (exept N.0.5 SU)	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 U ₁ V 440 Rated insulation voltage f F Hz 50/60 Rated frequency f Rated frequen	Rated voltage according to IEC/EN 60898-1	U_{n}	V AC	415
Rated insulation voltage Rated frequency f Hz 50/60 Characteristic B, C, D Direction of incoming supply Electrical Operations Mechanical Operations Standard front dimension Finder height Mounting width per pole Mou	Rated switching capacity according to IEC/EN 60898-1	I _{cn}	kA	15
Rated frequency Characteristic Direction of incoming supply Itifespan Electrical Mechanical Mechanical Operations Standard front dimension Enclosure height Mounting width per pole Mounting width per pole Mounting Degree of Protection Terminals top and bottom Terminals top and bottom Terminal protection Terminal capacities Tightening torque of fixing screws Thickness of busbar material P	Rated service short-circuit breaking capacity according to IEC/EN 60898-1	I _{cs}		7,5 kA
Characteristic Direction of incoming supply Iffespan Electrical Mechanical Mechanical Standard front dimension Enclosure height Mounting width per pole Mounting Mounting Degree of Protection Terminals top and bottom Terminal protection Terminal protection Terminal protection Terminal capacities Tightening torque of fixing screws Thickness of busbar material E, C, D as required B, C, D as required B, C, D as required B, C, D B, S, Quired B, S, D B,	Rated insulation voltage	Ui	V	440
Direction of incoming supply lifespan Electrical Operations ≥ 4000 Mechanical Operations ≥ 10000 Mechanical Standard front dimension	Rated frequency	f	Hz	50/60
Electrical Operations ≥ 4000 Mechanical Operations ≥ 10000 Mechanical Standard front dimension	Characteristic			B, C, D
Electrical Operations ≥ 4000 Mechanical Operations ≥ 10000 Mechanical Standard front dimension	Direction of incoming supply			as required
Mechanical Standard front dimension Enclosure height Mounting width per pole Mounting Degree of Protection Terminals top and bottom Terminal protection Terminal protection Terminal capacities Tightening torque of fixing screws Thickness of busbar material Degree of Protection Terminal capacities Terminal cap	lifespan			
Mechanical 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 capacities mm² 1-25 Tightening torque of fixing screws Thickness of busbar material mm 0.8 (exept N 0.5 SU)	Electrical	Operations		≧ 4000
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 capacities mm² 1-25 Tightening torque of fixing screws N/m max. 2.4 Thickness of busbar material Mounting mm 0.8 (exept N 0.5 SU)		Operations		≧ 10000
Enclosure height mm 80 Mounting width per pole mm 17.5 Mounting Degree of Protection IP20 Terminals top and bottom Terminal protection Ireminal capacities Terminal capacities M/m max. 2.4 Thickness of busbar material Terminal Mounting mm 80 In max 10.5 Audick attachment with 3 latch positions for top-hat rail IEC/EN 60715 Audick 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 Top max. 2.4 Thickness of busbar material M/m max. 2.4	Mechanical			
Mounting width per pole mm 17.5 Mounting Degree of Protection Protection Prominals top and bottom Terminal protection Terminal capacities mm² 1 - 25 Tightening torque of fixing screws N/m max. 2.4 Thickness of busbar material Protection mm 17.5 Tight and back-of-band proof according to BGV A3 and ÖVE-EN 6 Mm 2	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 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 Top mm² 1 - 25 N/m max. 2.4 Thickness of busbar material M 0.8 (exept N 0.5 SU)	Enclosure height		mm	80
Degree of Protection Terminals top and bottom Terminal protection Terminal capacities Tightening torque of fixing screws Thickness of busbar material Terminal capacities Tightening torque of fixing screws Thickness of busbar material Tightening torque of fixing screws Tightening torque of fixing screws Tightening torque of fixing screws Thickness of busbar material Tightening torque of fixing screws Tightenin	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

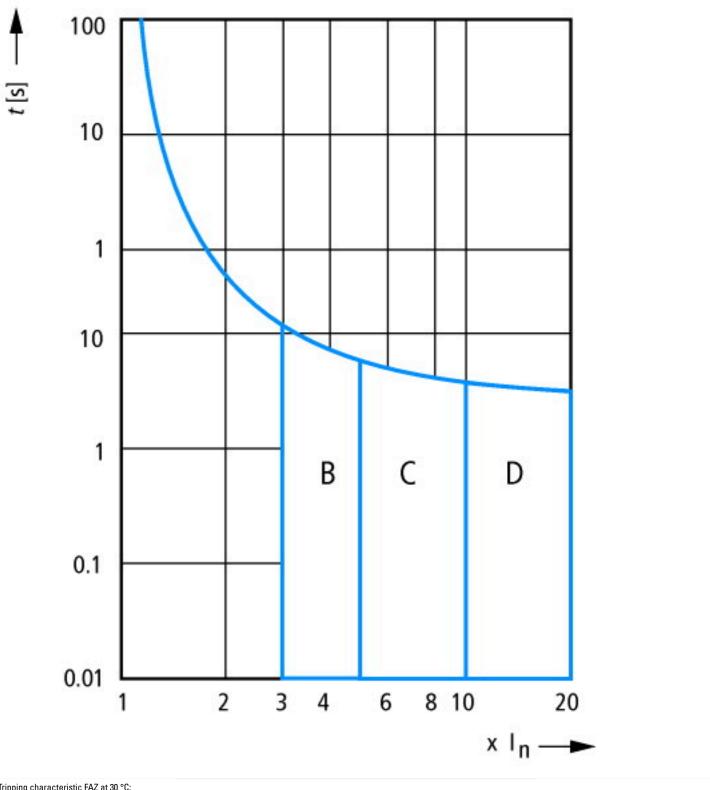
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	25
Heat dissipation per pole, current-dependent	P_{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	9.7
Static heat dissipation, non-current-dependent	P_{vs}	W	0
Heat dissipation capacity	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 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)		4			
Number of protected poles		3			
Rated current	Α	25			
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

