DATASHEET - FAZT-D16/1

FIT-N AZT-B16

Part no.

Miniature circuit breaker (MCB), 16A, 1p, D-Char, AC



FAZT-D16/1 Catalog No. 240819 Eaton Catalog No. FAZT-D16/1



Similar to illustration

Technical data Electrical

StandardsNoKet Media (2004)Red voltage according to EC/E Mode/2VaVaVaRed voltage according to EC/E Mode/2VaVaVaRed red voltageVaVaVaVaRed red voltageVaVaVaVaRed red voltageYaVaVaVaRed red voltageYaVaVaVaRed red voltageYaVaVaVaRed red voltageYaVaVaVaRed red voltageYaYaVaVaRed red voltageYaYaVaVaRed red voltageYaYaVaVaRed red voltageYaYaVaVaRed voltageYaYaYaVaRed voltageYaYaYaVaRed voltageYaYaYaVaRed voltageYaYaYaYaRed voltageYaYaYaYaR	Electrical			
Rate witching capacity acc. to IEC/EN 60947-2 Icu IA Value	Standards			IEC/EN 60947-2
Rade insulation voltage Vi Vi 4 Rade frequency f Hz 50/60 Characteristic sequired g, C, D Direction of incoming supply sequired sequired Iffespan Operations 2 2 Mechanical Operations 2 2 Mechanical Operations 2 2 Standard fort dimension Management 2 2 Mounting width per pole Management Management 3 Remains top and bottom Management Management 1 Terminal reprotection Management Management 1 Terminal reprotection Management Management 1 Terminal reprotection Management 1 2 Terminal reproter fifting serews Management	Rated voltage according to IEC/EN 60947-2	Un	V AC	240/415
Red frequency Face Hz Solid Characteristic B, C, D Solid	Rated switching capacity acc. to IEC/EN 60947-2	I _{cu}	kA	20
Characteristic Pire disconting supply B, C, D Direction of incoming supply B, C, D Ifespan Sequired Electrical Operations 2 Mechanical Monting Monting Mounting width per pole Monting Monting Mounting Monting 1.5 Mounting Inclass and bottom 1200 Terminals top and bottom Forg Monting Terminals top and bottom Forg Monting Terminal capacities Monting Inclass-of-hand proof according to BGV A3 and ÖVE-EN 6 Terminal capacities Monting Inclass Capacity Colores Terminal capacities for Stop	Rated insulation voltage	Ui	V	440
Direction of incoming supply Prefere	Rated frequency	f	Hz	50/60
Ideam Image: Provide state	Characteristic			B, C, D
Indexinal Operations 4000 Mechanical Operations 10000 Mechanical Index 10000 Mechanical Index 5 Mechanical Index 10000 Standard front dimension Index Machanical Standard front dimension Index Index Enclosure height Index Index Mounting width per pole Index Index Mounting Index Index Mounting Index Index Pagree of Protection Index Index Terminal stop and bottom Index Index Terminal capacities Index Index-of-Inand proof according to BGV A3 and ÖVE-EN 6 Terminal capacities Index Index Index Tightening torque of fixing screws Index Index Index Tightening torque of fixing screws Index Index Index	Direction of incoming supply			as required
Mechanical Mechanical Operations Immediate Immediate <td>lifespan</td> <td></td> <td></td> <td></td>	lifespan			
Mechanical Main	Electrical	Operations		≧ 4000
Standard front dimension mm 45 Enclosure height mm 80 Mounting width per pole mm 1.5 Mounting Mm 1.6 kattachment with 3 latch positions for top-hat rail IEC/EN 60715 Degree of Protection IPO IPO Terminals top and bottom Imm Nin-purpose terminals Terminal capacities mm ² Ingre- and back-of-hand proof according to BGV A3 and ÖVE-EN 6 Tightening torque of fixing screws Imm ² N/m ms.2.4 Nichen NUBSCH Imm ² Screws NUBSCH Screws NUBSCH	Mechanical	Operations		≧ 10000
Enclosure height mm mm<	Mechanical			
Mounting width per pole mm 1.5 Mounting Lock attachment with 3 latch positions for top-hat rail IEC/EN 60715 Degree of Protection Imm Imm Terminal stop and bottom Imm Imm Terminal capacities Imm Imm Tightening torque of fixing screws Imm Imm	Standard front dimension		mm	45
Mounting Mountin a failed Mounting Mounting	Enclosure height		mm	80
Degree of Protection P0 Terminals top and bottom Terminal protection Terminal capacities ma ² Tightening torque of fixing screws N/m Tightens of busbar material M/m	Mounting width per pole		mm	17.5
Terminal stop and bottom Mathematical stop Terminal protection Terminal protection Terminal stop and back-of-hand proof according to BGV A3 and ÖVE-EN 6 Terminal capacities mm ² 1-25 Tightening torque of fixing screws M/m max.2.4 Tightening torque 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 Image: Finder- and back-of-hand proof according to BGV A3 and ÖVE-EN 6 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)	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 M 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	16
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	2.2
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.

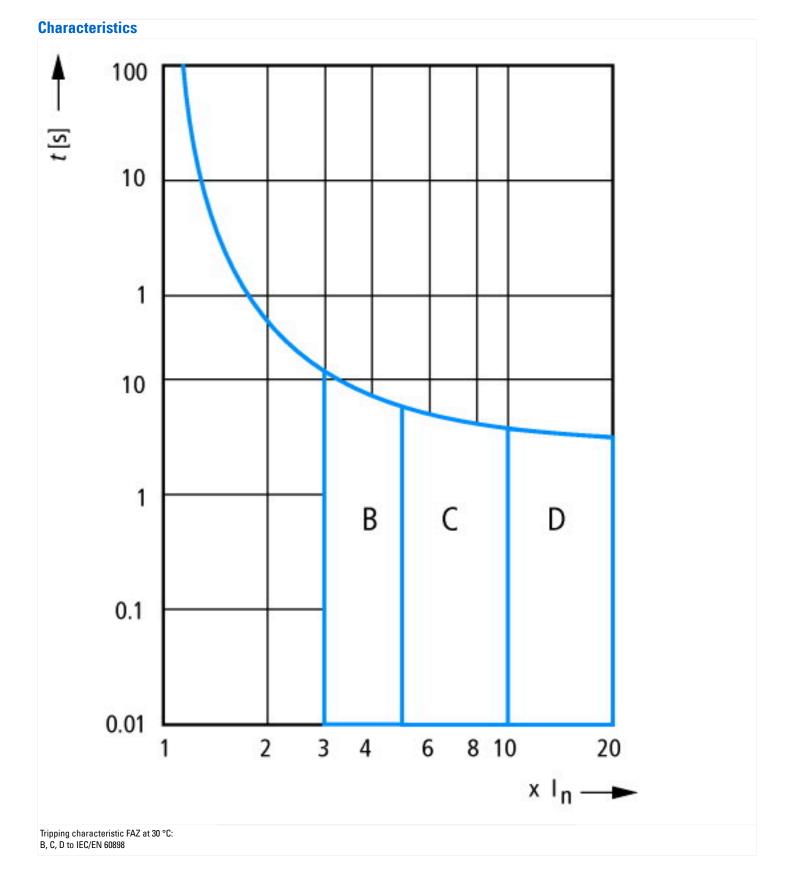
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES	Does not apply, since the 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		D
Number of poles (total)		1
Number of protected poles		1
Rated current	А	16
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



Dimensions

