## **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 <sub>cu</sub>	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 <sup>2</sup> Ingre- and back-of-hand proof according to BGV A3 and ÖVE-EN 6     Tightening torque of fixing screws   Imm <sup>2</sup> N/m   ms.2.4     Nichen NUBSCH   Imm <sup>2</sup> 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 <sup>2</sup> 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 <sup>2</sup> 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 <sup>2</sup> 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 <sup>2</sup> 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 <sup>2</sup>	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 <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	2.2
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Heat dissipation capacity	P <sub>diss</sub>	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.

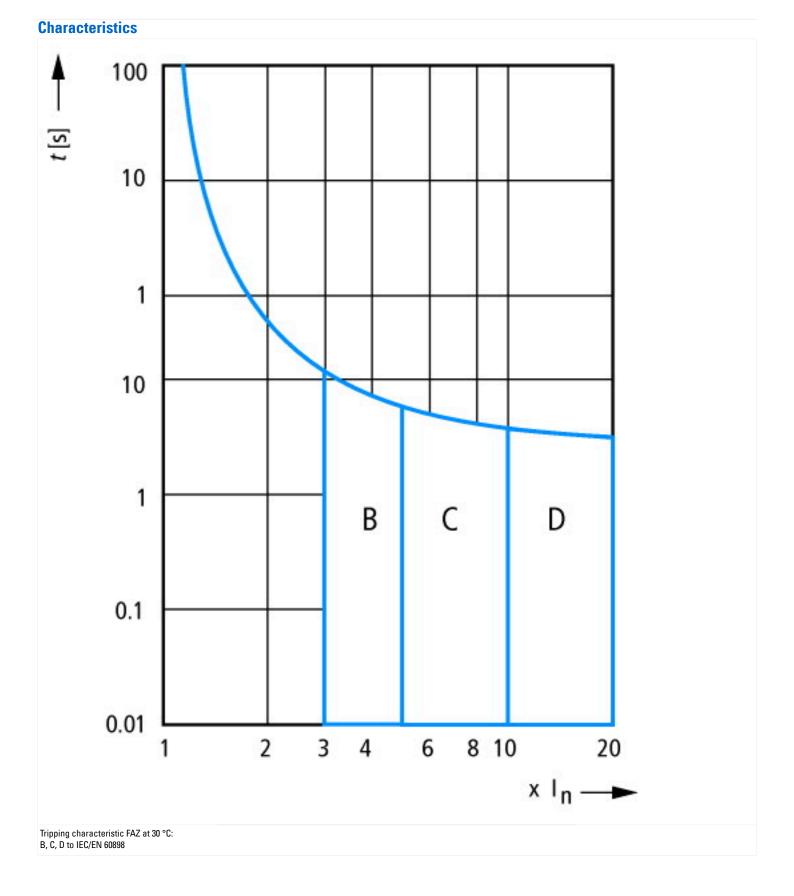
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES	Does not apply, since the 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

