## **DATASHEET - FAZT-D1/1**

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



FAZT-D1/1 Catalog No. 240810 Eaton Catalog No. FAZT-D1/1

Part no.



Similar to illustration

#### **Technical data** Electrical

Direction of incoming supply Prefere	Electrical			
Aread switching capacity acc. to IEC/EN 60947-2     Icu     Area     Feator Science Scie	Standards			IEC/EN 60947-2
Red insulation voltage     Vi     V     4       Red insulation voltage     f     Hz     50/60       Red frequency     f     Hz     50/60       Characteristic     sc.p.     g.C.p.C.p.     g.C.p.C.p.C.p.       Direction fincoming supply     sc.p.     g.C.p.C.p.C.p.C.p.     g.C.p.C.p.C.p.C.p.C.p.C.p.C.p.       Iffespan     Operation     Sc.p.     g.C.p.C.p.C.p.C.p.C.p.C.p.C.p.C.p.C.p.C.	Rated voltage according to IEC/EN 60947-2	Un	V AC	240/415
Rate frequency   F   Hz   5/60     Characteristic   B, C, D   Sequired     Direction of incoming supply   Sequired   Sequired     Iffespan   Operators   Sequired     Identical   Operators   Sequired     Machanical   Operators   Sequired     Nachanical   Machanical   Sequired     Standard front dimension   Machanical   Sequired     Nounting width per pole   Machanical   Sequired     Nounting width per pole   Machanical   Sequired     Terminal stop and bottom   F   Machanical   Sequired     Terminal protection   Machanical   Sequired   Sequired   Sequired     Terminal stop and bottom   F   Machanical   Sequired	Rated switching capacity acc. to IEC/EN 60947-2	l <sub>cu</sub>	kA	25
Characteristic   B, C, D     Direction of incoming supply   a required     Ifespan   Operations     Electrical   Operations     Mechanical   Mechanical     Mechanical   Mechanical     Mechanical   Mechanical     Mechanical   Mechanical     Mechanical   Mechanical     Mechanical   Mechanical     Mounting width per pole   Mechanical Mec	Rated insulation voltage	Ui	V	440
Direction of incoming supply Prevalue required required   Integration Operations Prevalue Prove Prevalue   Mechanical Operations Prevalue Prevalue   Mechanical Operations Prevalue Prevalue   Mechanical Operations Prevalue Prevalue   Mechanical Prevalue Prevalue Prevalue   Mechanical Prevalue Prevalue Prevalue   Mechanical Prevalue Prevalue Prevalue   Monting width per pole Prevalue Prevalue Prevalue   Mounting Directorion Prevalue Prevalue   Directorion Prevalue Prevalue Prevalue   Terminal protection Prevalue Prevalue Prevalue   Terminal capacities Prevalue Prevalue Prevalue   Tigtening torque of fixing screws Prevalue Prevalue   Tigtening torque of fixing screws	Rated frequency	f	Hz	50/60
Initial Segment Initial Segment Initial Segment Initial Segment   Initial Segment Segment Segment Segment   Mechanical Mechanical Mechanical Segment Segment Segment Segment   Mechanical Mechanical Segment Segment Segment Segment   Mechanical Segment Segment Segment Segment   Munting width per pole Men Segment Segment   Nourting vidth per pole Men Segment Segment   Terminal stop and buttom Men Segment Segment   Terminal protection Men Segment Segment   Terminal capacities Men Segment Segment   Tightening torque of fixing screws Men Segment Segment   Tightening torque of fixing screws Men Segment Segment	Characteristic			B, C, D
Indectail     Operations     4000       Mechanical     Operations     10000       Mechanical     Indextail     10000       Mechanical     Indextail     Indextail       Standard front dimension     Indextail     Indextail       Enclosure height     Indextail     Indextail       Mounting width per pole     Indextail     Indextail       Mounting     Indextail     Indextail       Pagee of Protection     Indextail     Indextail       Terminal stop and bottom     Indextail     Indext-of-shand proof according to BGV A3 and ÖVE-EN 6       Terminal capacities     Indextop     Indext-of-shand proof according to BGV A3 and ÖVE-EN 6       Infining torque of fixing screws     Indextop     Indextop       Tickness of busbar material     Indextop     Indextop	Direction of incoming supply			as required
Mechanical Mechanical     Operations     Immediate     Immediate <td>lifespan</td> <td></td> <td></td> <td></td>	lifespan			
Mechanical     mm     4       Standard front dimension     mm     4     Account of the second	Electrical	Operations		≧ 4000
Standard front dimension   mm   45     Enclosure height   mm   80     Mounting width per pole   mm   1.5     Mounting   Mounting   Much attach ment with 3 latch positions for top-hat rail IEC/EN 60715     Degree of Protection   Freminals top and bottom   Freminal stop and bottom     Terminal copacities   Monting   Freminal stop and bottom     Terminal copacities   Mmm   1.25     Tightening torque of fixing screws   Mich with 0.5 SU)   Mich with 0.5 SU)	Mechanical	Operations		≧ 10000
Enclosure height   mm   %     Mounting width per pole   mm   1.5     Mounting   inick attachment with 3 latch positions for top-hat rail IEC/EN 60715     Degree of Protection   P20     Terminal protection   mm   fineprotector attachment of top-hat rail IEC/EN 60715     Terminal protection   Formand   fineprotector attachment of top-hat rail IEC/EN 60715     Terminal protection   Formand   fineprotector attachment of top-hat rail IEC/EN 60715     Terminal capacities   Formand   fineprotector attachment of top-hat rail IEC/EN 60715     Tiphtening torque of fixing screws   Formand   fineprotector attachment of top-hat rail IEC/EN 60715     Tiphtening torque of fixing screws   Formand   fineprotector attachment of top-hat rail IEC/EN 60715     Tiphtening torque of fixing screws   Formand   fineprotector attachment of top-hat rail IEC/EN 60715     Tiphtening torque of fixing screws   Formand   fineprotector attachment of top-hat rail IEC/EN 60715     Tiphtening torque of fixing screws   Formand   fineprotector attachment of top-hat rail IEC/EN 60715     Tiphtening torque of fixing screws   Formand   fineprotector attachment of top-hat rail IEC/EN 60715     Tiphtening torque of fixing screws   Formand of top-hat rail IEC/EN 60715<	Mechanical			
Mounting width per pole mm 1.5   Mounting Dick attachment with 3 latch positions for top-hat rail IEC/EN 60715   Degree of Protection PO   Terminal stop and bottom Forminal protection   Terminal capacities Mm   Tightening torque of fixing screws Solon   Tightening torque of fixing screws Mm   Tightening torque of fixing screws Solon	Standard front dimension		mm	45
Mounting Mount	Enclosure height		mm	80
Degree of Protection IPO   Terminals top and bottom Twin-purpose terminals   Terminal protection Twin-purpose terminals   Terminal capacities Imm <sup>2</sup> Tightening torque of fixing screws N/m   Thickness of busbar material Imm <sup>2</sup>	Mounting width per pole		mm	17.5
Terminal stop and bottom Terminal protection Twin-purpose terminals   Terminal capacities Imm <sup>2</sup> Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6   Tightening torque of fixing screws Mm 1 - 25   Tightening torque of fixing screws Mm max 2.4   Tightening torque of fixing screws 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 1 - 25   Tightening torque of fixing screws N/m max. 2.4   Tickness of busbar material mm 0.8 (exept N 0.5 SU)	Degree of Protection			IP20
Terminal capacitiesmm21 - 25Tightening torque of fixing screwsN/mmax 2.4Thickness of busbar materialmm0.8 (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 <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	А	1
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0.8
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.

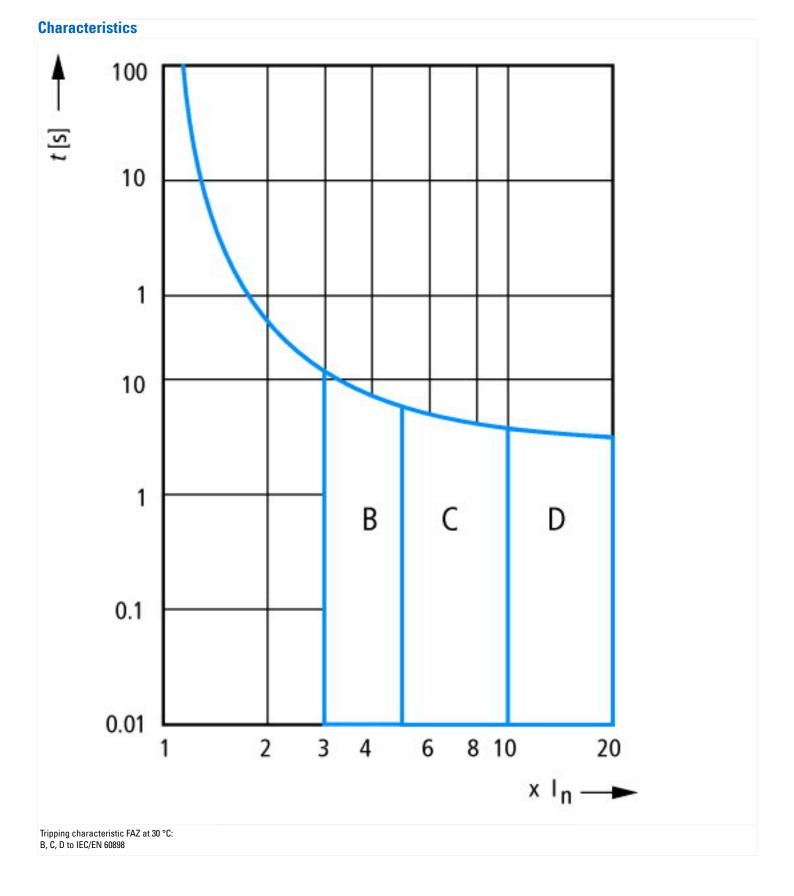
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES	Does not apply, since the 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	1
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

