#### **DATASHEET - FAZT-D6/1**



Miniature circuit breaker (MCB), 6A, 1p, D-Char, AC

Part no. FAZT-D6/1 Catalog No. 240814 Eaton Catalog No. FAZT-D6/1



Similar to illustration

#### Technical data Electrical

Standards     IEC/EN 60947-2       Rated voltage according to IEC/EN 60947-2     Un     V AC     240/415       Rated switching capacity acc. to IEC/EN 60947-2     Icu     KA     25       Rated insulation voltage     U     V     40       Rated frequency     Face of Protection of incoming supply     Face of Protection of incoming supply     B.C. D       Iffespan     Operations     To     4000       Belectrical     Operations     To     4000       Mechanical     Operations     To     5000       Mechanical     Mo     5     4000       Mounting width per pole     Mn     45     5       Mounting width per pole     Mn     5     6       Mounting width per pole     Mn     175     175       Mounting width per pole     Mn     175     175       Mounting width per pole     Mn     175     175       Terminal top and bottom     Mn     175<	Elocation				
Rated switching capacity acc. to IEC/EN 60947-2  Rated insulation voltage  Rated frequency  Rated frequency  Characteristic  Direction of incoming supply  Iffespan  Electrical  Mechanical  Mechanical  Mechanical  Mechanical  Standard front dimension  Enclosure height  Mounting width per pole  Mounting width per pole  Mounting  Degree of Protection  Terminal stop and bottom  Terminal top and bottom  Terminal capacities  Terminal capacities  Tightening torque of fixing screws  Tightening torque	Standards			IEC/EN 60947-2	
Rated insulation voltage  Rated frequency  F	Rated voltage according to IEC/EN 60947-2	Un	V AC	240/415	
Rated frequency Characteristic Chiracteristic Chir	Rated switching capacity acc. to IEC/EN 60947-2	I <sub>cu</sub>	kA	25	
Characteristic  Direction of incoming supply  Electrical Mechanical  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 tor que of fixing screws  Tightening tor que of fixing screws  Terminal capacities  Direction of incoming supply  B, C, D  as required  A, C  4000	Rated insulation voltage	Ui	V	440	
Direction of incoming supply  Iffespan    Coperations   C	Rated frequency	f	Hz	50/60	
Lifespan 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   Degree of Protection IP20   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 Mechanical 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 capacities  Tightening torque of fixing screws  Thickness of busbar material  Degree of Protections  Degree of Protection  Terminal capacities  Terminal c	Direction of incoming supply			as required	
Mechanical       Operations       ≥ 10000         Mechanical       Image: Company of Protection       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         Degree of Protection       IP20         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)	lifespan				
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         Degree of Protection       IP20         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)	Electrical	Operations		≧ 4000	
Standard front dimension mm 45  Enclosure height mm 80  Mounting width per pole mm 17.5  Mounting  Mounting  Degree of Protection IP20  Terminals top and bottom Terminal protection  Terminal protection IT 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)	Mechanical	Operations		≧ 10000	
Enclosure height mm 80  Mounting width per pole mm 17.5  Mounting Degree of Protection IP20  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)	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 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)	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  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  Tightening torque of fixing screws  N/m max. 2.4  Thickness of busbar material  mm 0.8 (exept N 0.5 SU)	Enclosure height		mm	80	
Degree of Protection  Terminals top and bottom  Terminal protection  Terminal protection  Terminal capacities  Terminal capacities  Tightening torque of fixing screws  Thickness of busbar material  Terminal capacities  IP20  Twin-purpose terminals  Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6  To 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)	Mounting width per pole		mm	17.5	
Terminals top and bottom  Terminal protection  Terminal capacities  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  To mm² 1 - 25  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 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)	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		$\text{mm}^2$	1 - 25	
1111	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

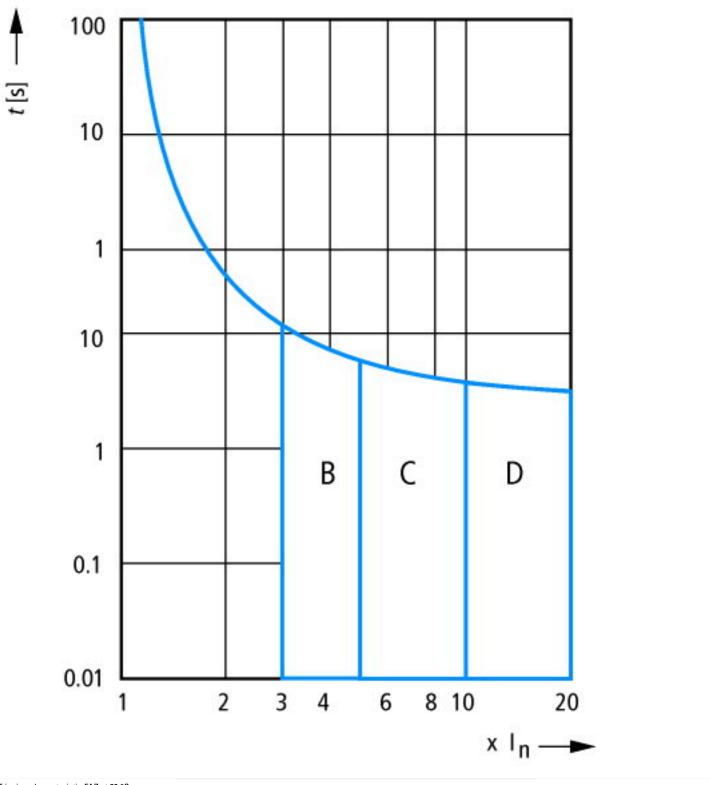
Technical data for design verification			
Rated operational current for specified heat dissipation	$I_n$	Α	6
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	1.5
Static heat dissipation, non-current-dependent	$P_{vs}$	W	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 observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must 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**

16Cililical uata ETIIVI 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	Α	6			
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			

## Characteristics



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

## **Dimensions**

