### DATASHEET - FAZ-C50/3N



Miniature circuit breaker (MCB), 50A, 3Np, C-Char, AC



Part no.FAZ-C50/3NCatalog No.278980Eaton Catalog No.FAZ-C50/3NEL-Nummer0001691139(Norway)

Similar to illustration

## **Technical data**

lectrical			
Standards			IEC/EN 60947-2 IEC/EN 60898
Rated operational voltage	U <sub>e</sub>	V	
	Ue	V AC	240/415
		V DC	60 (per pole)
Rated voltage according to UL	Un	V AC	480Y/277
Rated switching capacity acc. to IEC/EN 60947-2	I <sub>cu</sub>	kA	15
Breaking capacity according to UL		kA	5 (UL1077)
Operational switching capacity		kA	7.5
Characteristic			B, C, D, K, S, Z
Лах. back-up fuse		A gL/gG	125
Selectivity Class			3
fespan			
Lifespan	Operations		> 10000
Direction of incoming supply			as required
Aechanical Annual A			
Standard front dimension		mm	45
inclosure height		mm	80
Nounting width per pole		mm	17.5
Nounting			IEC/EN 60715 top-hat rail
Degree of Protection			IP20, IP40 (when fitted)
erminals top and bottom			Twin-purpose terminals
erminal protection			Finger and back-of-hand proof to BGV A2
erminal capacities		mm <sup>2</sup>	
		mm <sup>2</sup>	1 x 25
		mm <sup>2</sup>	2 x 10
hickness of busbar material		mm	0.8 2
Aounting position			As required

## Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	50
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	15.3
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.

10.12 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		
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.     10.3.0 Begree of protection of ASSEMBLIES   Does not apply, since the entire switchgear needs to be evaluated.     10.4 Clearances and creepage distances   Does not apply, since the entire switchgear needs to be evaluated.     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.     10.9 Instruction advicting devices and components   Does not apply, since the entire switchgear needs to be evaluated.     10.9 Instruction for external conductors   Is the panel builder's responsibility.     10.9 Instruction properties   Is the panel builder's responsibility.     10.9.1 Store requery electric strength   Is the panel builder's responsibility.     10.9.2 Power-frequency electric strength   Is the panel builder's responsibility.     10.9.1 Store-circuit rating   Is the panel builder's responsibility. <td>10.2.3.1 Verification of thermal stability of enclosures</td> <td>Meets the product standard's requirements.</td>	10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
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#### **Technical data ETIM 7.0**

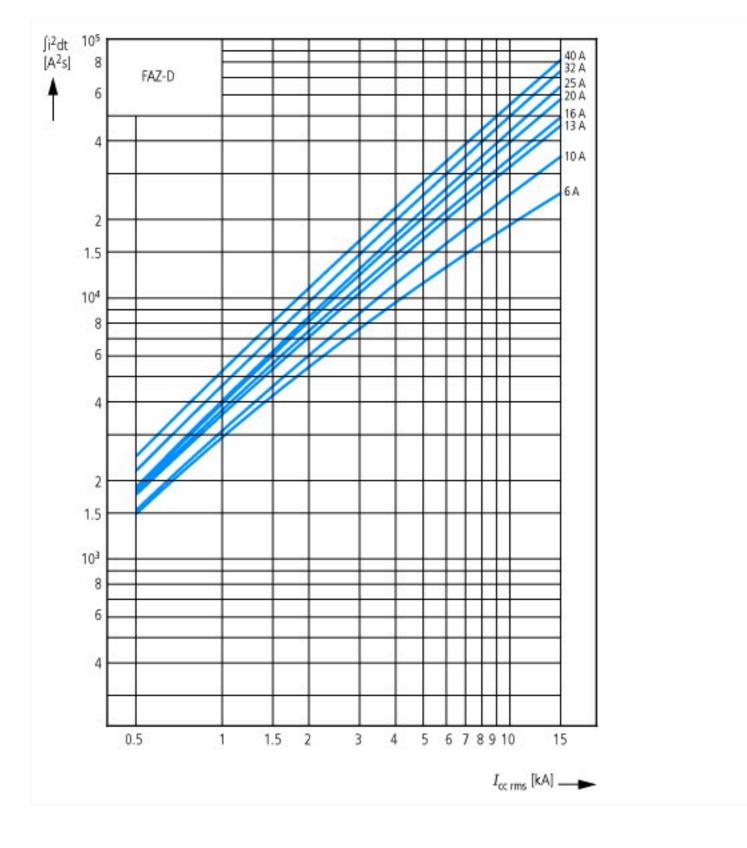
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

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])

(ecl@ss10.0.1-27-14-19-01 [AAB905014])			
Release characteristic			C
Number of poles (total)			4
Number of protected poles			3
Rated current	А		50
Rated voltage	V		400
Rated insulation voltage Ui	V		440
Rated impulse withstand voltage Uimp	k۱	/	4
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	4	10
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	4	10
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	4	15
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	4	15
Voltage type			AC
Frequency	Ha	z	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	m	m	70.5
Degree of protection (IP)			IP20
Ambient temperature during operating	°C	2	-25 - 75
Connectable conductor cross section multi-wired	m	m²	1 - 25
Connectable conductor cross section solid-core	m	m²	1 - 25

## **Characteristics**











# Dimensions

