DATASHEET - FAZ-B40/3



Miniature circuit breaker (MCB), 40A, 3p, B-Char, AC

Powering Business Worldwide*

Part no. FAZ-B40/3
Catalog No. 278851
Eaton Catalog No. FAZ-B40/3
EL-Nummer 0001695127
(Norway)

Similar to illustration

Technical data

Electrical			
Standards			IEC/EN 60947-2 IEC/EN 60898
Rated operational voltage	U _e	V	
	U _e	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 _{cu}	kA	15
Breaking capacity according to UL		kA	5 (UL1077)
Max operational voltage according to IEC/EN 60947-2		V AC	440
Rated switching capacity according to IEC/EN 60947-2 (max operational voltage)	I _{cu}	kA	10
Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage)	I _{cs}		7,5 kA
Rated voltage according to IEC/EN 60898-1	Un	V AC	415
Rated switching capacity according to IEC/EN 60898-1	I _{cn}	kA	10
Rated service short-circuit breaking capacity according to IEC/EN 60898-1	I _{cs}		7,5 kA
Operational switching capacity		kA	7.5
Characteristic			B, C, D, K, S, Z
Max. back-up fuse		A gL/gG	125
Selectivity Class			3
lifespan			
Lifespan	Operations		> 10000
Direction of incoming supply			as required
Mechanical			
Standard front dimension		mm	45
Enclosure height		mm	80
Mounting width per pole		mm	17.5
Mounting			IEC/EN 60715 top-hat rail
Degree of Protection			IP20, IP40 (when fitted)
Terminals top and bottom			Twin-purpose terminals
Terminal protection			Finger and back-of-hand proof to BGV A2
Terminal capacities		mm ²	
		mm^2	1 x 25
		mm ²	2 x 10
Thickness of busbar material		mm	0.8 2
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	40
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	11.2
Static heat dissipation, non-current-dependent	P _{vs}	W	0

Operating ambient temperature min. Operating ambient temperature max. EC/EN 61439 design verification 10.2 Strength of materials and parts	°C	-40 75 linear, per +1 °C, results in a 0.5% reduction of current carrying capacity
EC/EN 61439 design verification	°C	
•		linear, per +1 °C, results in a 0.5% reduction of current carrying capacity
•		
10.2 Strength of materials and parts		
3		
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 hea and fire due to internal electric effects $ \frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left($		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)

Release characteristic 3 Number of poles (total) Number of protected poles 3 Rated current 40

В

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])

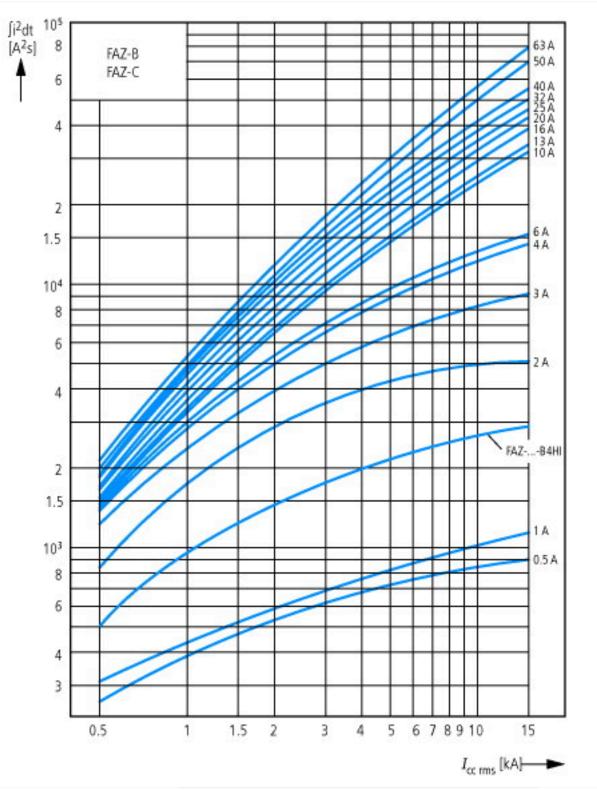
Rated voltage	V	400	
Rated insulation voltage Ui	V	440	
Rated impulse withstand voltage Uimp	kV	4	
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	10	
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	10	
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	15	
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	15	
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		3	

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

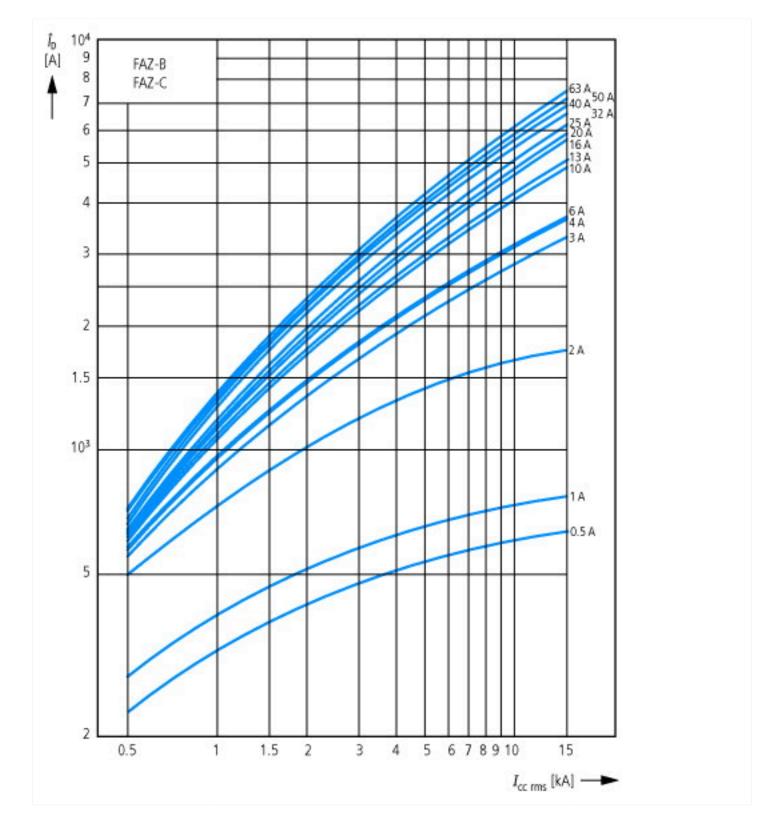
Approvals

Product Standards	IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking
UL File No.	E177451
UL Category Control No.	QVNU2, QVNU8
CSA File No.	204453
CSA Class No.	3215-30
North America Certification	UL recognized, CSA certified
Conditions of Acceptability	Supplementary Protector only
Suitable for	Branch Circuits; not as BCPD
Current Limiting Circuit-Breaker	No
Max. Voltage Rating	480Y/277 VAC
Degree of Protection	IEC: IP20; UL/CSA Type: -

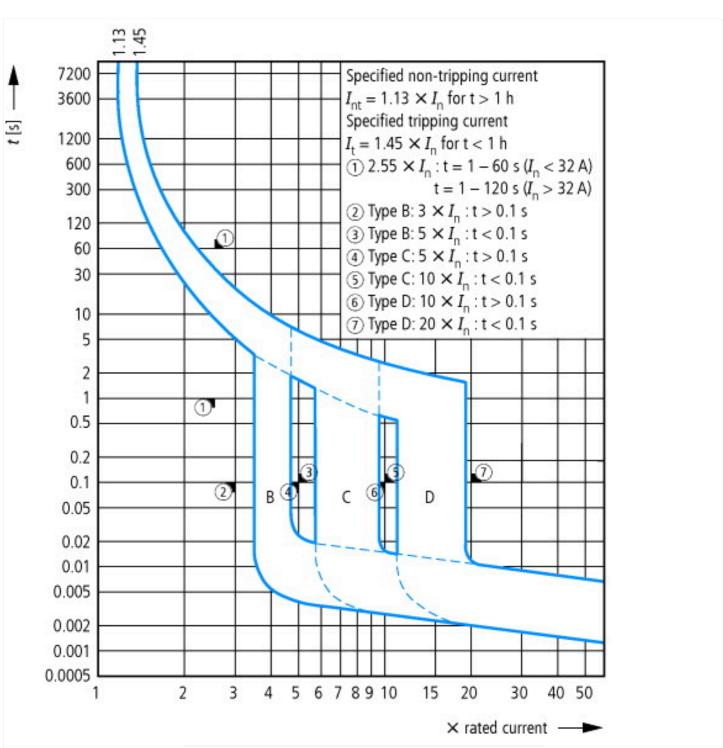
Characteristics











Dimensions

