

Over current switch, 20A, 3Np, C-Char, AC

Powering Business Worldwide

Part no. FAZ-C20/3N Article no. 278976 Catalog No. FAZ-C20/3N

Similar to illustration

Delivery programme	Del	iverv	ora v	aram	me
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Basic function			Miniature circuit breakers
Number of poles			3 pole+N
Tripping characteristic			C
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	20
Rated switching capacity acc. to IEC/EN 60947-2		kA	15
Product range			FAZ

Technical data

Electrical

Standards IEC/EN 60947-2 IEC/EN 60948	
U _e V AC 230/400 V DC 48 (per pole)	
V DC 48 (per pole)	
" ' '	
Rated switching canacity acc to IFC/FN 60947-2	
10	
Operational switching capacity kA 7.5	
Characteristic B, C, D	
Max. back-up fuse A gL/gG 125	
Selectivity Class 3	
Lifespan Operations > 10000	
Direction of incoming supply as required	
Mechanical	
Standard front dimension mm 45	
Enclosure height mm 80	
Terminal protection Finger and back	k-of-hand proof to BGV A2
Mounting width per pole mm 17.5	
Mounting IEC/EN 60715 to	op-hat rail
Degree of Protection IP20, IP40 (whe	en fitted)
Terminals top and bottom Twin-purpose to	erminals
Terminal capacities mm ²	
mm ² 1 x 25	
$_{\text{mm}^2}$ 2 x 10	
Thickness of busbar material mm 0.8 2	
Mounting position As required	

Design verification as per IEC/EN 61439

3			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	20
Heat dissipation per pole, current-dependent	P_{vid}	W	0
Equipment heat dissipation, current-dependent	P_{vid}	W	10.1
Static heat dissipation, non-current-dependent	P_{vs}	W	0
Heat dissipation capacity	P _{diss}	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

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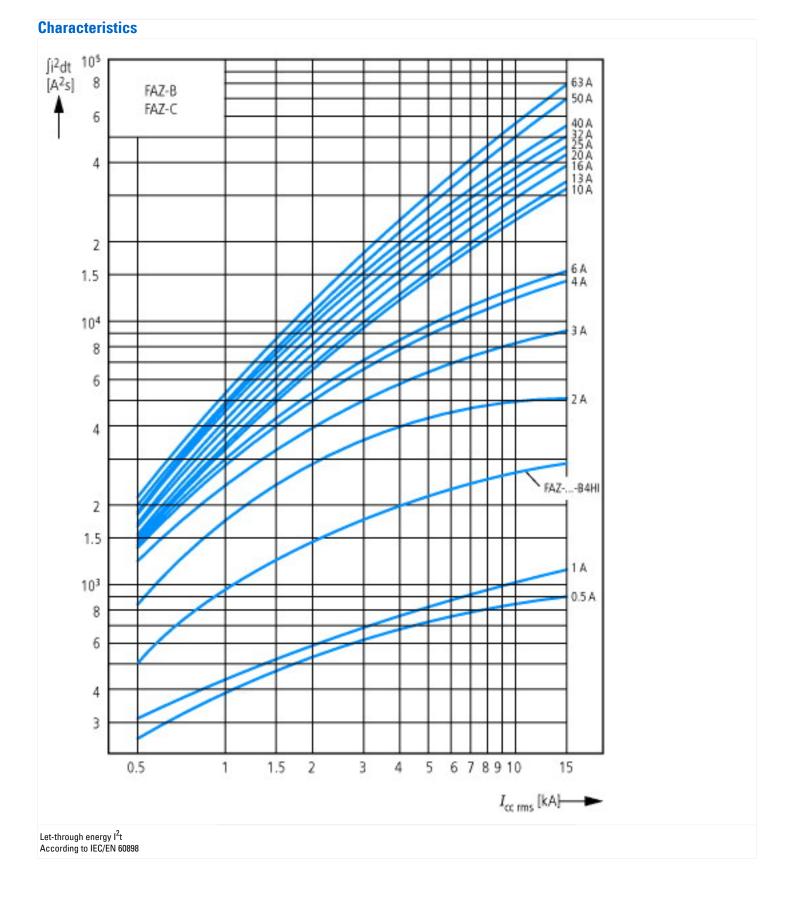
10.2 Strength of materials and parts	
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product 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

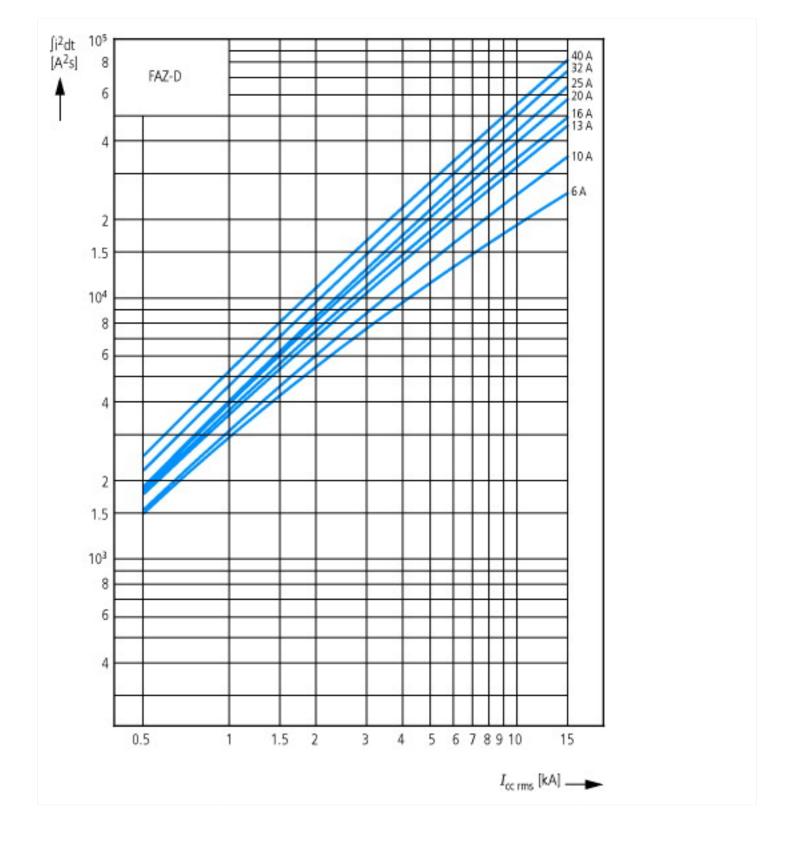
Technical data ETIM 6.0

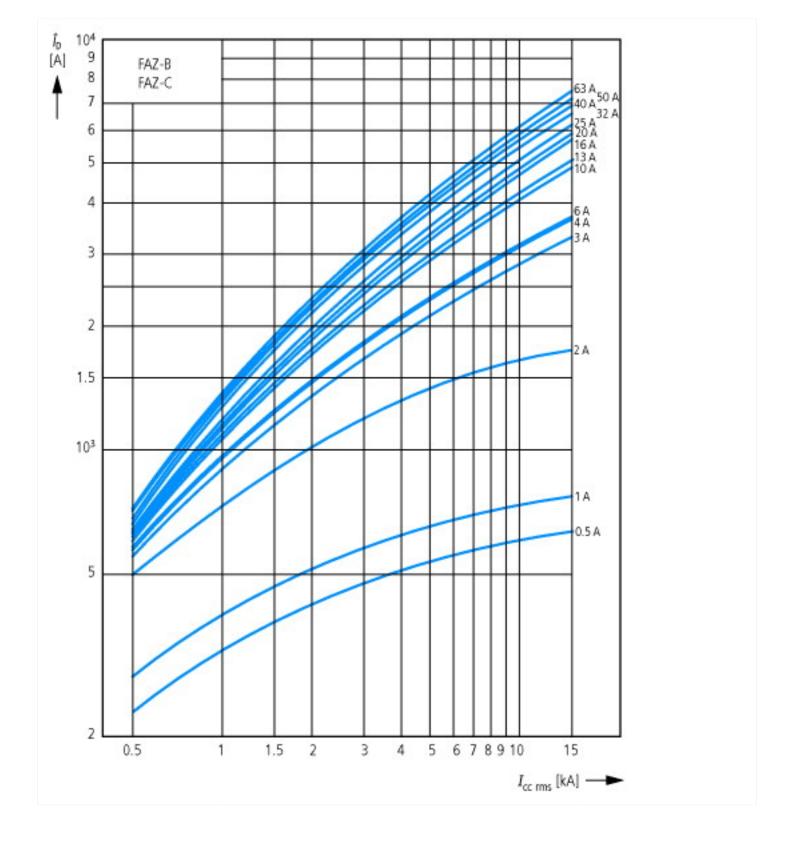
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

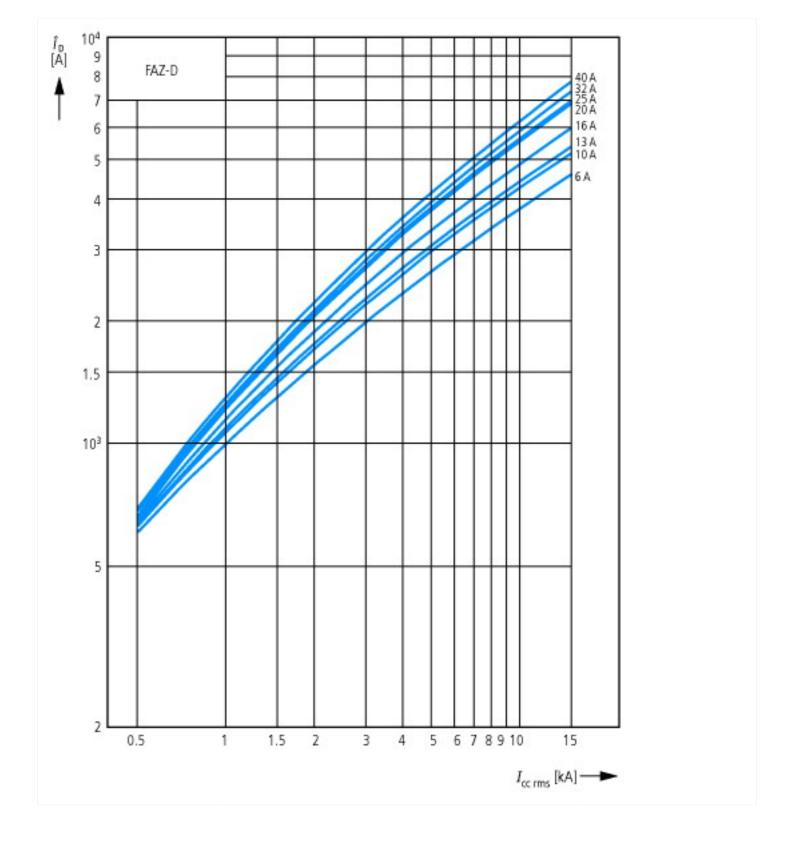
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss8.1-27-14-19-01 [AAB905011])

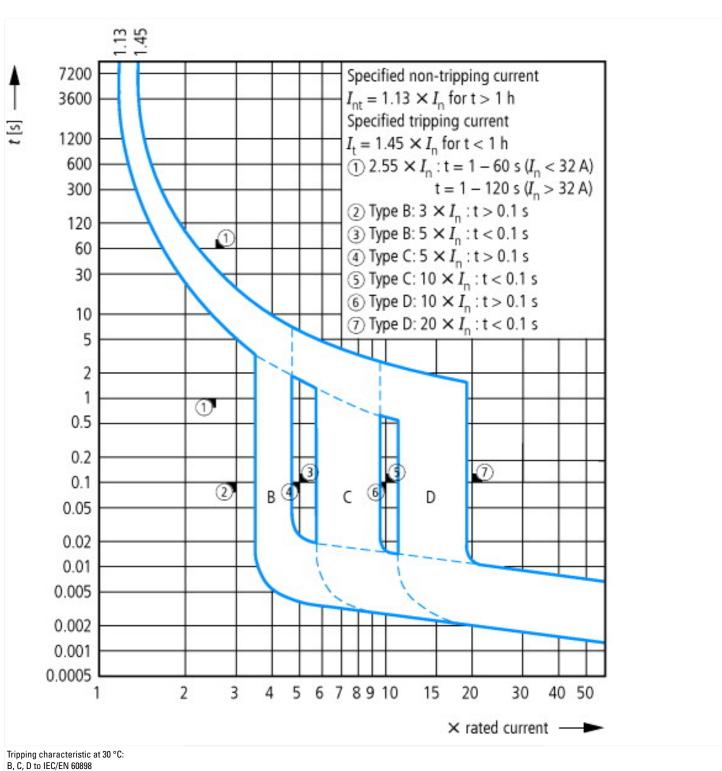
[AAB905011])			
Release characteristic			С
Number of poles (total)			4
Number of protected poles			4
Nominal rated current	A	4	20
Nominal rated voltage	V	/	400
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	k	kΑ	10
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	k	κA	10
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	k	κA	15
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	k	kΑ	15
Voltage type			AC
Current limiting class			3
Frequency	H	Hz	50 - 60
Concurrently switching N-neutral			Yes
Suitable for flush-mounted installation			No
Over voltage category			3
Pollution degree			2
Width in number of modular spacings			4
Built-in depth	n	mm	70.5
Additional equipment possible			Yes
Degree of protection (IP)			IP20



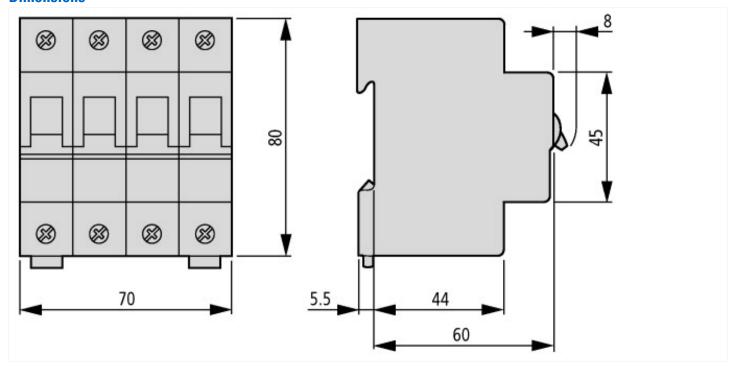








Dimensions



Additional product information (links)

AWA1220-1755 Circiut-breaker

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ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/17550701.pdf