

Over current switch, 20A, 1Np, B-Char, AC

Part no. FAZ-B20/1N Article no. 278649 Catalog No. FAZ-B20/1N



Similar to illustration

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Basic function			Miniature circuit breakers
Number of poles			1 pole+N
Tripping characteristic			В
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 60898
Rated operational voltage	U _e	V	
	U _e	V AC	230/400
		V DC	48 (per pole)
Rated switching capacity acc. to IEC/EN 60947-2		kA	15
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

Mechanical		
Standard front dimension	mm	45
Enclosure height	mm	80
Terminal protection		Finger and back-of-hand proof to BGV A2
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 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	20
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	3.6
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
C/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.

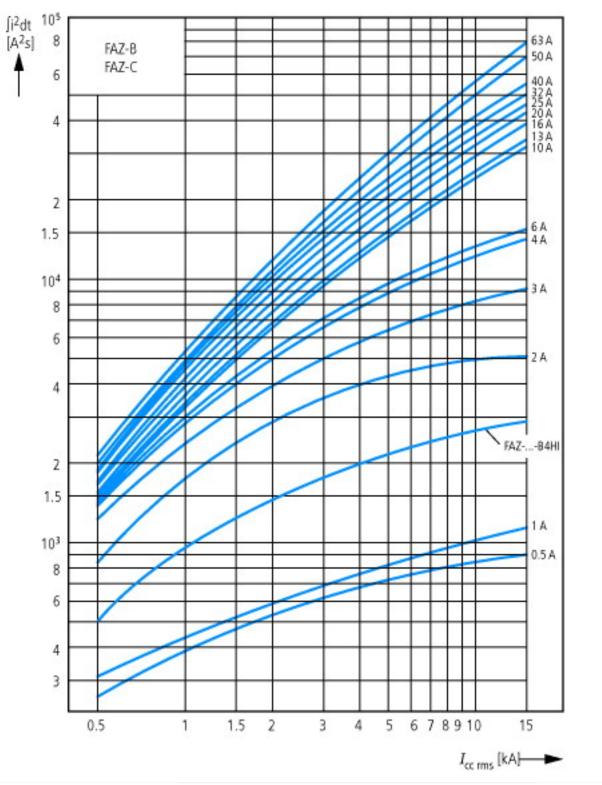
Technical data ETIM 6.0

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

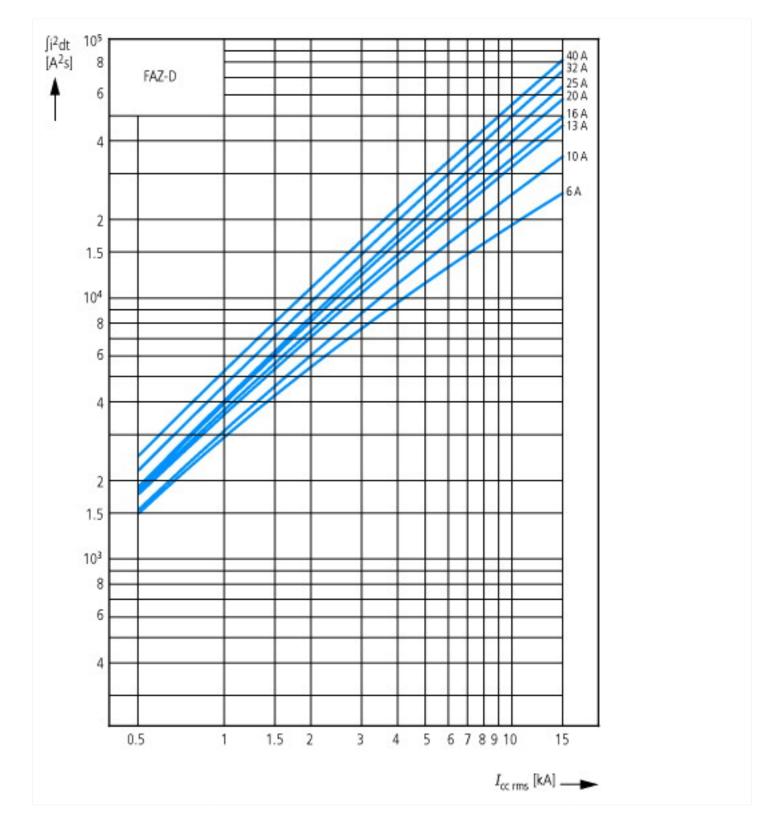
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss8.1-27-14-19-01 [AAB905011])

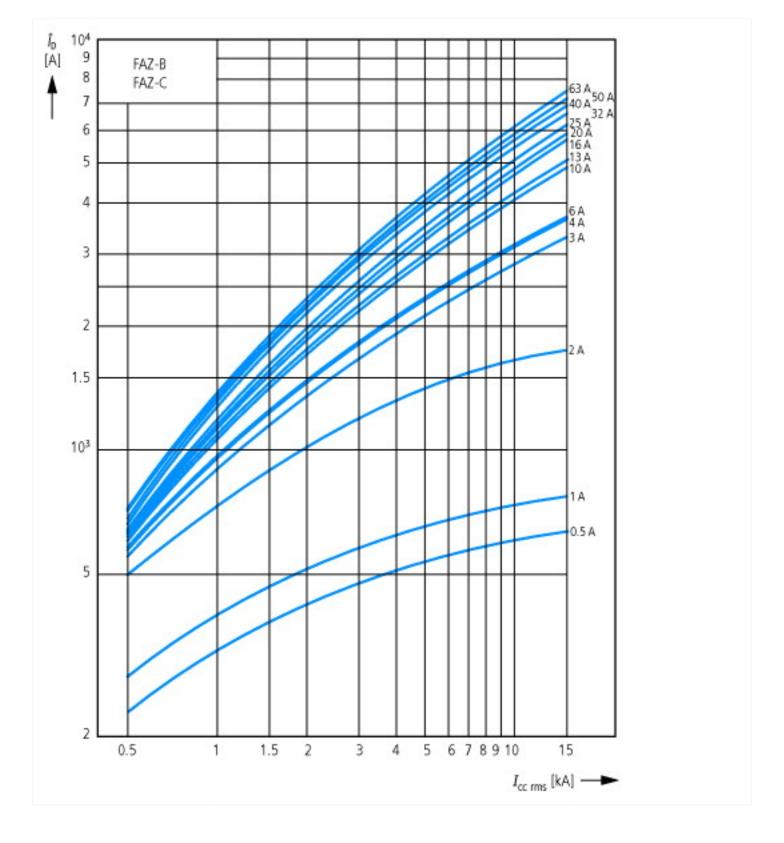
Degree of protection (IP)			IP20
Additional equipment possible			Yes
Built-in depth	n	mm	70.5
Width in number of modular spacings			2
Pollution degree			2
Over voltage category			3
Suitable for flush-mounted installation			No
Concurrently switching N-neutral			Yes
Frequency	F	Hz	50 - 60
Current limiting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

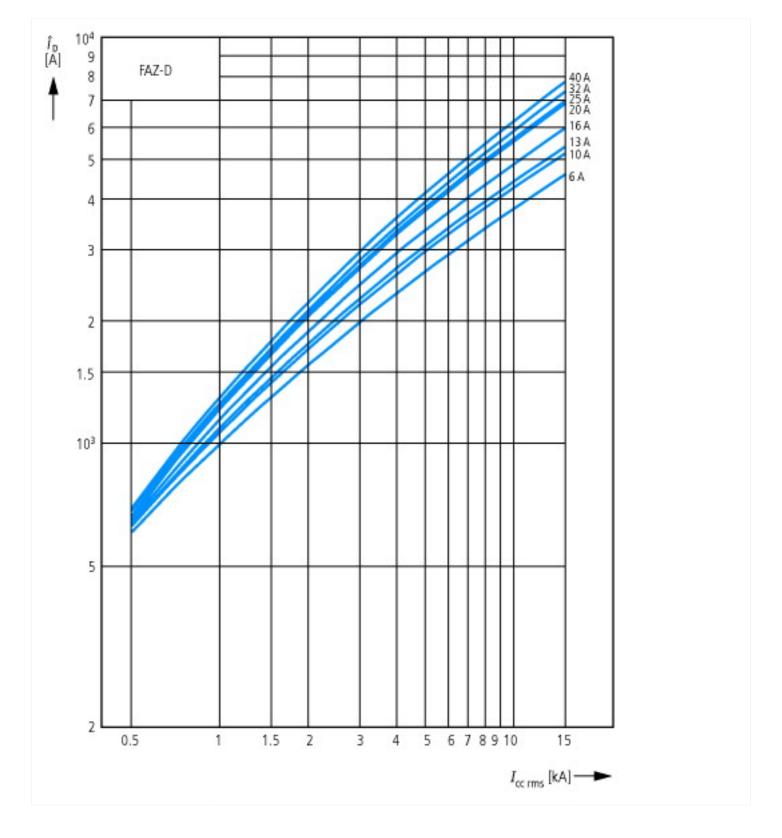
Characteristics

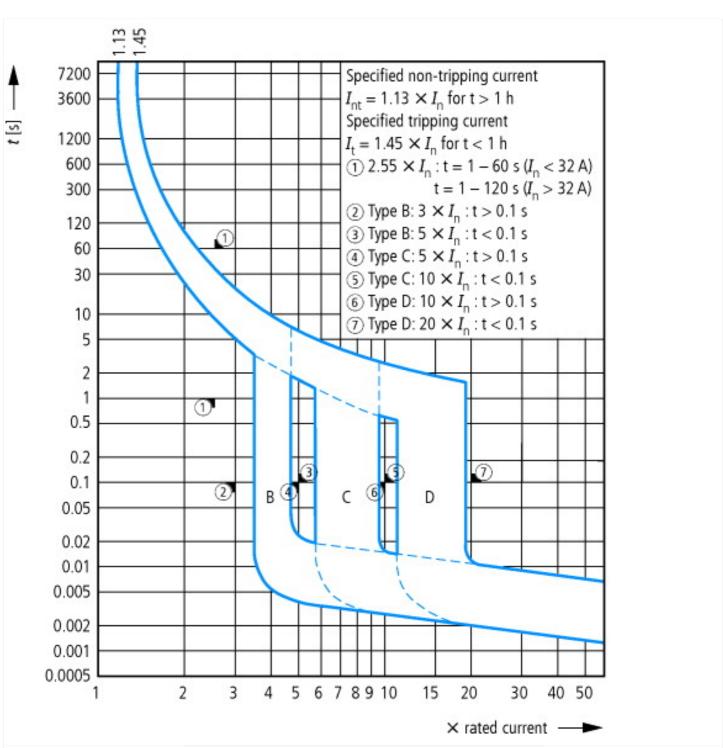


Let-through energy I²t According to IEC/EN 60898

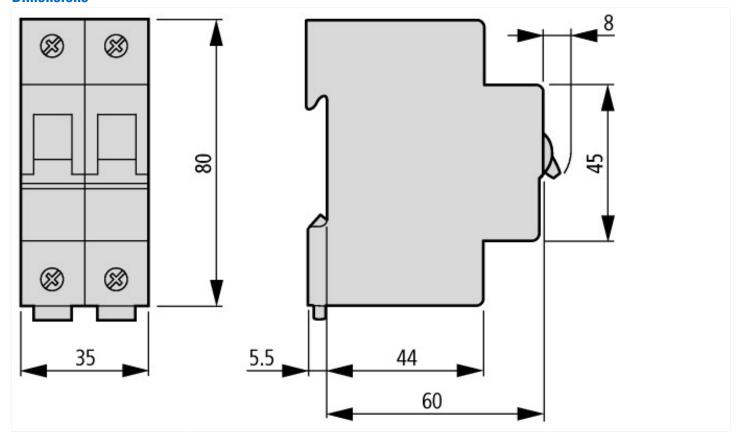








Dimensions



Additional product information (links)

AWA1220-1755 Circiut-breaker

AWA1220-1755 Circiut-breaker ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/17550701.pdf