

Over current switch, 20A, 4p, C-Char, AC

Powering Business Worldwide

Part no. FAZ-C20/4 Article no. 279062 Catalog No. FAZ-C20/4

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Basic function			Miniature circuit breakers
Number of poles			4 pole
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 LEC/EN 60847 -2 LEC/EN 60847 -2 LEC/EN 60888 Rated operational voltage Ue V Ue VB VAC 230/400 Rated switching capacity acc. to IEC/EN 60947 -2 kA 15 Operational switching capacity acc. to IEC/EN 60947 -2 kA 7.5 Characteristic B, C, D D Max. back-up fuse A gL/g6 125 Selectivity Class 3 3 Lifespan Operations > 10000 Direction of incoming supply > 10000 Mechanical mm 45 Standard front dimension mm 45 Enclosure height mm 80 Terminal protection mm 80 Mounting width per pole mm 17.5 Mounting width per pole mm 17.5 Mounting and bottom IEC/EN 60715 top-hat rail IEC/EN 60715 top-hat rail Terminal capacities mm² IEC/EN 60715 top-hat rail	Licotricui			
Rated switching capacity acc. to IEC/EN 60947-2 Rated switching capacity acc. to IEC/EN 60947-2 Operational switching capacity Characteristic Max. back-up fuse Selectivity Class Lifespan Operations Operations Operations Operations Tirection of incoming supply Mechanica Standard front dimension Enclosure height Terminal protection Mounting Mounting Mounting Degree of Protection Terminals top and bottom Terminals top and bottom Terminal capacities Wax V AC A8 (per pole) 48 (per pole) 49 (p. 4) 40 (Standards			
Rated switching capacity acc. to IEC/EN 60947-2 Rated switching capacity acc. to IEC/EN 60947-2 Characteristic Max. back-up fuse Selectivity Class Lifespan Operations Direction of incoming supply Mechanical Standard front dimension Enclosure height Terminal protection Mounting width per pole Mounting width per pole Mounting Degree of Protection Terminals top and bottom Terminals top and bottom Terminal capacities Wide acceptance V DC 48 (per pole) 49 (per pole) 49 (per pole) 49 (per pole) 49 (per pole) 40 (per pole) 41 (per pole) 42 (per pole) 42 (per pole) 42 (per pole) 42 (per pole) 43 (per pole) 44 (per pole) 45 (per pole) 46 (per pole) 47 (per pole) 48 (per pole) 49 (per pole) 40 (per pole	Rated operational voltage	U _e	V	
Rated switching capacity acc. to IEC/EN 60947-2 Operational switching capacity Characteristic Max. back-up fuse Selectivity Class Lifespan Operations Direction of incoming supply Mechanical Standard front dimension Enclosure height Terminal protection Mounting width per pole Mounting Degree of Protection Terminals top and bottom Terminals top and bottom Terminal capacities KA 15 KA 7.5 KA 7.5 R.C, D B, C, D 125 3 126 3 127 3 129 48 49 49 49 49 49 49 49 49 4		U _e	V AC	230/400
Operational switching capacity KA 7.5 Characteristic B, C, D Max. back-up fuse A gL/g6 125 Selectivity Class 3 3 Lifespan Operations > 10000 Direction of incoming supply as required Mechanical mm 45 Enclosure height mm 80 Enclosure height Finger and back-of-hand proof to BGV A2 Mounting width per pole mm 17.5 Mounting IEC/EN 60715 top-hat rail IP20, IP40 (when fitted) Degree of Protection Twin-purpose terminals Terminals top and bottom mm² mm²			V DC	48 (per pole)
Characteristic B, C, D Max. back-up fuse A gL/g6 Selectivity Class 3 Lifespan Operations > 10000 Direction of incoming supply as required Mechanical Standard front dimension mm 45 Enclosure height mm 80 Terminal protection Mounting width per pole mm 17.5 Mounting Width per pole mm 17.5 Mounting Degree of Protection	Rated switching capacity acc. to IEC/EN 60947-2		kA	15
Max. back-up fuse Selectivity Class Selectivity Class Lifespan Operations Direction of incoming supply Mechanical Standard front dimension Enclosure height Terminal protection Mounting width per pole Mounting Degree of Protection Terminals top and bottom Terminals top and bottom Terminal capacities A gL/gG 125 3 4 0000 as required *** *** *** *** *** *** *** *** ***	Operational switching capacity		kA	7.5
Selectivity Class Lifespan Operations > 10000 Direction of incoming supply as required 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 Degree of Protection IEC/EN 60715 top-hat rail Degree of Protection Terminals top and bottom Terminal capacities mm² Terminal capacities mm²	Characteristic			B, C, D
Lifespan Operations > 10000 Direction of incoming supply as required 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 Degree of Protection IP20, IP40 (when fitted) Terminals top and bottom Terminal capacities mm² Terminal capacities > 10000 Directions > 10000 mm 45 Enclosure Height mm 80 Finger and back-of-hand proof to BGV A2 IEC/EN 60715 top-hat rail IP20, IP40 (when fitted) Twin-purpose terminals	Max. back-up fuse		A gL/gG	125
Direction of incoming supply Mechanical Standard front dimension Enclosure height Terminal protection Mounting width per pole Mounting Degree of Protection Terminals top and bottom Terminal capacities as required mm 45 Finder B0 Finger and back-of-hand proof to BGV A2 mm 17.5 IEC/EN 60715 top-hat rail IP20, IP40 (when fitted) Twin-purpose terminals mm²	Selectivity Class			3
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 mm²	Lifespan	Operations		> 10000
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 Degree of Protection Iteminals top and bottom Iteminal capacities mm² Mounting Terminal capacities mm² Mounting Width per pole mm 17.5 Mounting IEC/EN 60715 top-hat rail IP20, IP40 (when fitted) Twin-purpose terminals				as required
Enclosure height mm 80 Terminal protection Finger and back-of-hand proof to BGV A2 Mounting width per pole mm 17.5 Mounting Degree of Protection Iteminals top and bottom Iteminal capacities mm ²	Mechanical			
Terminal protection Mounting width per pole Mounting Mounting Degree of Protection Terminals top and bottom Terminal capacities Finger and back-of-hand proof to BGV A2 mm 17.5 IEC/EN 60715 top-hat rail IP20, IP40 (when fitted) Twin-purpose terminals	Standard front dimension		mm	45
Mounting width per pole mm 17.5 Mounting LEC/EN 60715 top-hat rail Degree of Protection IP20, IP40 (when fitted) Terminals top and bottom Twin-purpose terminals Terminal capacities mm²	Enclosure height		mm	80
Mounting Degree of Protection Terminals top and bottom Terminal capacities IEC/EN 60715 top-hat rail IP20, IP40 (when fitted) Twin-purpose terminals	Terminal protection			Finger and back-of-hand proof to BGV A2
Degree of Protection IP20, IP40 (when fitted) Terminals top and bottom Twin-purpose terminals Terminal capacities mm ²	Mounting width per pole		mm	17.5
Terminals top and bottom Terminal capacities Terminal capacities Terminal capacities Terminal capacities	Mounting			IEC/EN 60715 top-hat rail
Terminal capacities mm ²	Degree of Protection			IP20, IP40 (when fitted)
and the second s	Terminals top and bottom			Twin-purpose terminals
mm^2 1 x 25	Terminal capacities		mm ²	
			mm ²	1 x 25
mm ² 2 x 10			mm ²	2 x 10
Thickness of busbar material mm 0.8 2	Thickness of busbar material		mm	0.8 2
Mounting position As required	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	12.8
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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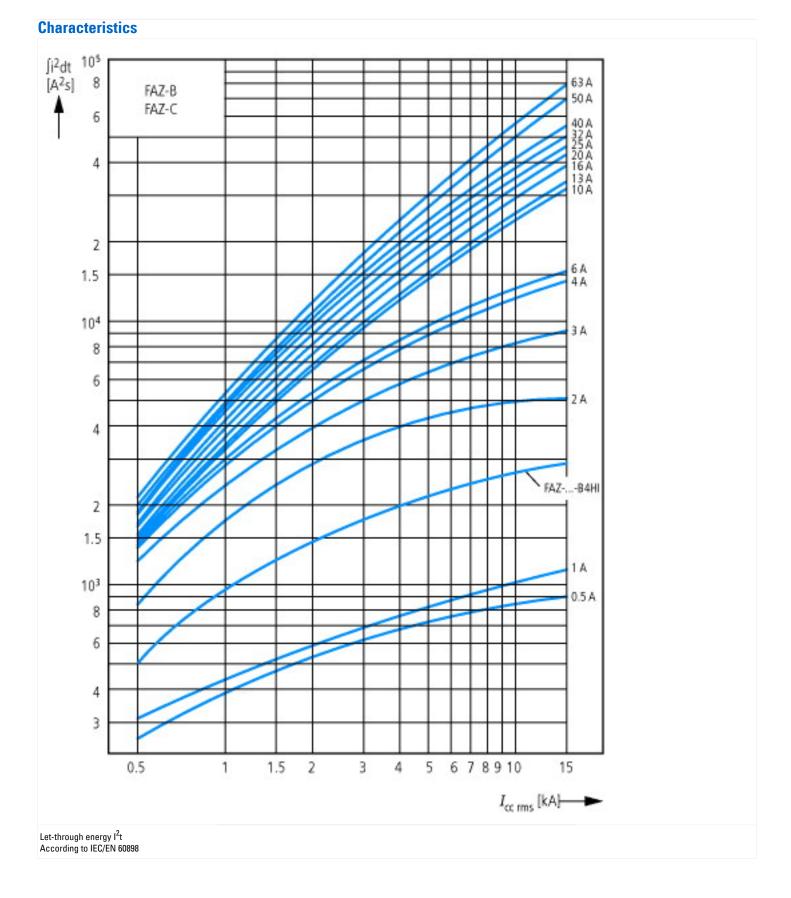
10.2 Strength of materials and parts	
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product 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

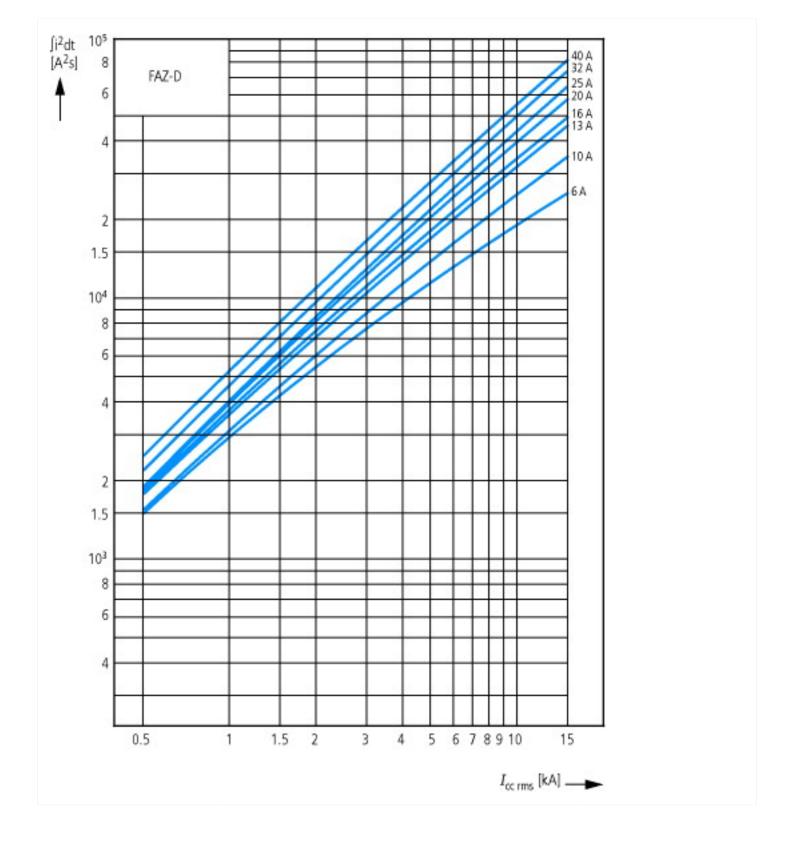
Technical data ETIM 6.0

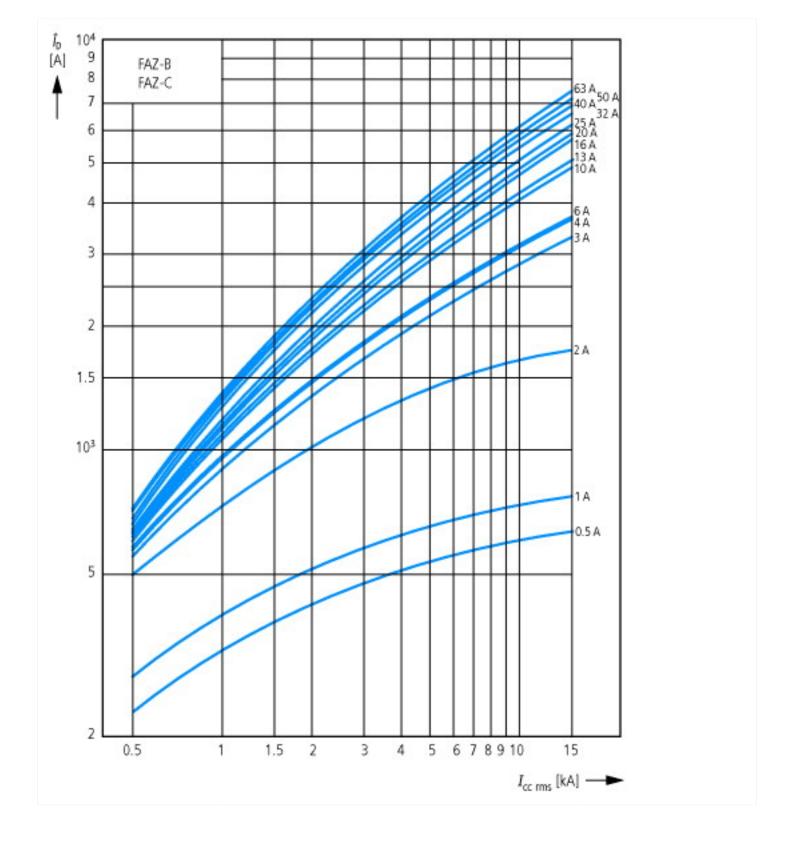
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

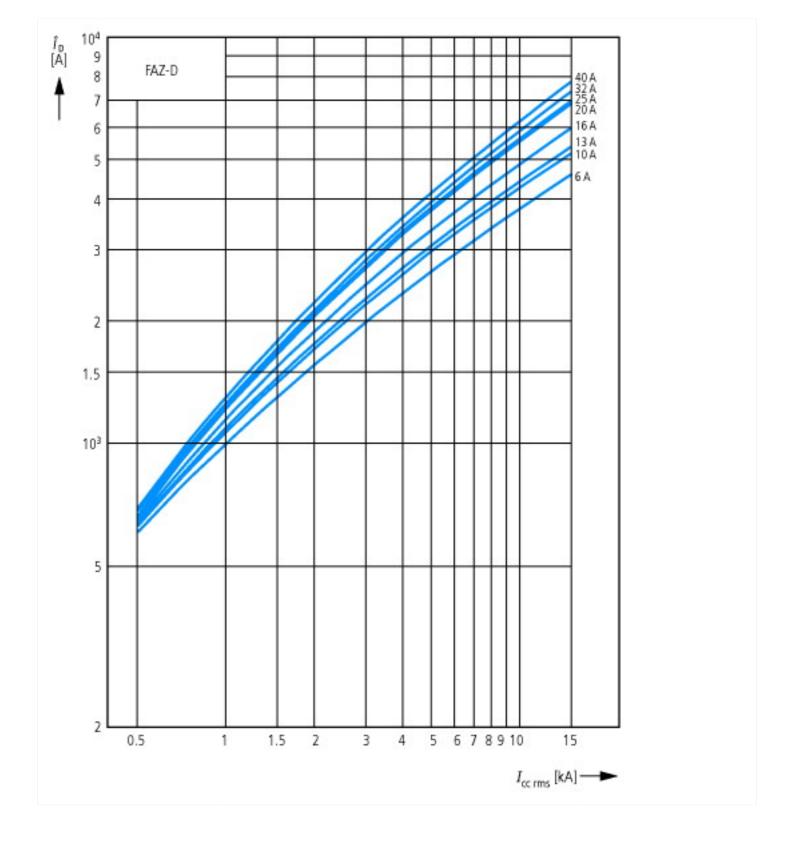
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss8.1-27-14-19-01 [AAB905011])

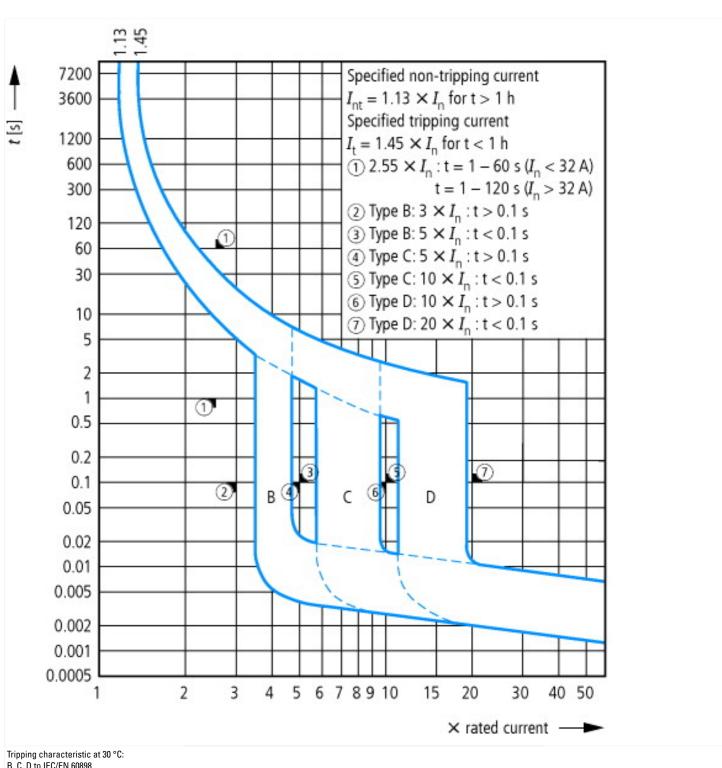
[AAD300011])			
Release characteristic			C
Number of poles (total)			4
Number of protected poles			4
Nominal rated current	,	Α	20
Nominal rated voltage	,	V	400
Rated short-circuit breaking capacity Icn EN 60898 at 230 V		kA	10
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	I	kA	10
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	I	kA	15
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	I	kA	15
Voltage type			AC
Current limiting class			3
Frequency		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	1	mm	70.5
Additional equipment possible			Yes
Degree of protection (IP)			IP20



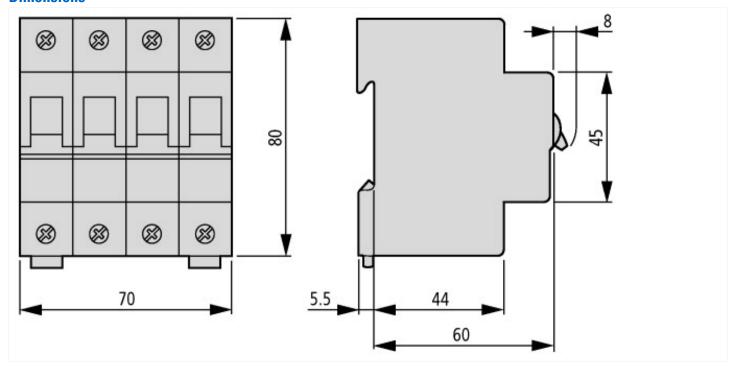








Dimensions



Additional product information (links)

AWA1220-1755 Circiut-breaker

AWA1220-1755 Circiut-breaker

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