

### Over current switch, 20A, 4p, D-Char, AC

Powering Business Worldwide

Part no. FAZ-D20/4 Article no. 279085 Catalog No. FAZ-D20/4

Similar to illustration

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71 0			
Basic function			Miniature circuit breakers
Number of poles			4 pole
Tripping characteristic			D
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  Rated operational voltage  Ue  Ue  Rated switching capacity acc. to IEC/EN 60947-2  Operational switching capacity  Characteristic  Max. back-up fuse  Selectivity Class  Lifespan  Open	V V k	V V AC V DC	IEC/EN 60947-2 IEC/EN 60898 230/400 48 (per pole)
Rated switching capacity acc. to IEC/EN 60947-2 Departional switching capacity Characteristic Max. back-up fuse Selectivity Class	V V k	V AC	·
Rated switching capacity acc. to IEC/EN 60947-2  Department of the switching capacity  Characteristic  Max. back-up fuse  Selectivity Class	V k	V DC	·
Operational switching capacity Characteristic Max. back-up fuse Selectivity Class	k		49 (nor nolo)
Operational switching capacity Characteristic Max. back-up fuse Selectivity Class			40 (per pore)
Characteristic  Max. back-up fuse  Selectivity Class	k.	κA	15
Max. back-up fuse Selectivity Class	K	κA	7.5
Selectivity Class			B, C, D
· ·	А	A gL/gG	125
Oper			3
	erations		> 10000
Direction of incoming supply			as required
<b>Nechanical</b>			
Standard front dimension	m	mm	45
Enclosure height	m	mm	80
Ferminal protection			Finger and back-of-hand proof to BGV A2
Mounting width per pole	m	mm	17.5
Mounting			IEC/EN 60715 top-hat rail
Degree of Protection			IP20, IP40 (when fitted)
Ferminals top and bottom			Twin-purpose terminals
Ferminal capacities	m	mm <sup>2</sup>	
	m	mm <sup>2</sup>	1 x 25
	п	mm <sup>2</sup>	2 x 10
Thickness of busbar material	m	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 <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	8
Static heat dissipation, non-current-dependent	$P_{vs}$	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

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 $ \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.

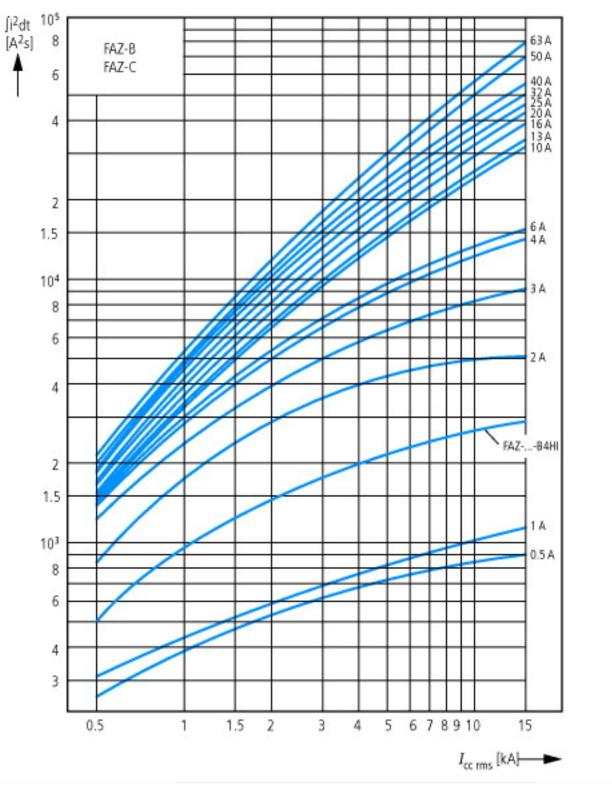
#### **Technical data ETIM 6.0**

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

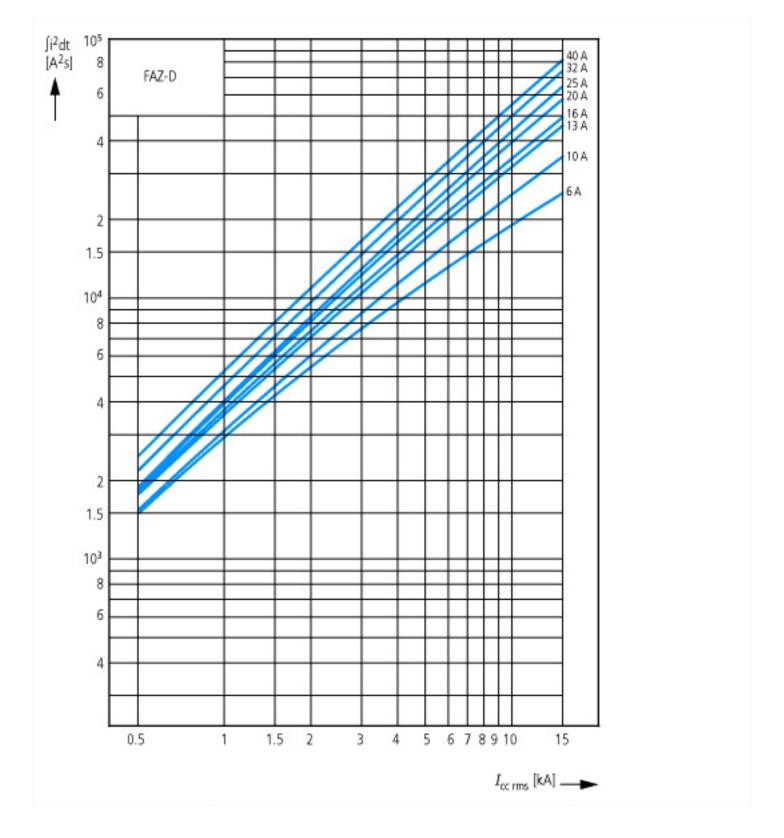
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss8.1-27-14-19-01 [AAB905011])

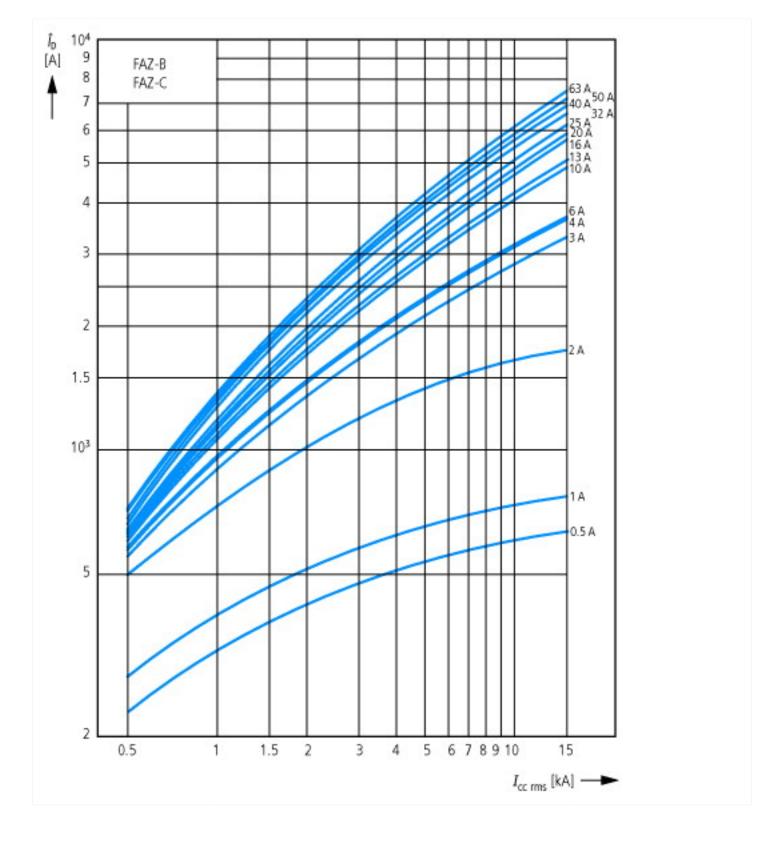
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Release characteristic		D
Number of poles (total)		4
Number of protected poles		4
Nominal rated current	Α	20
Nominal rated voltage	V	400
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	10
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	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
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	mm	70.5
Additional equipment possible		Yes
Degree of protection (IP)		IP20

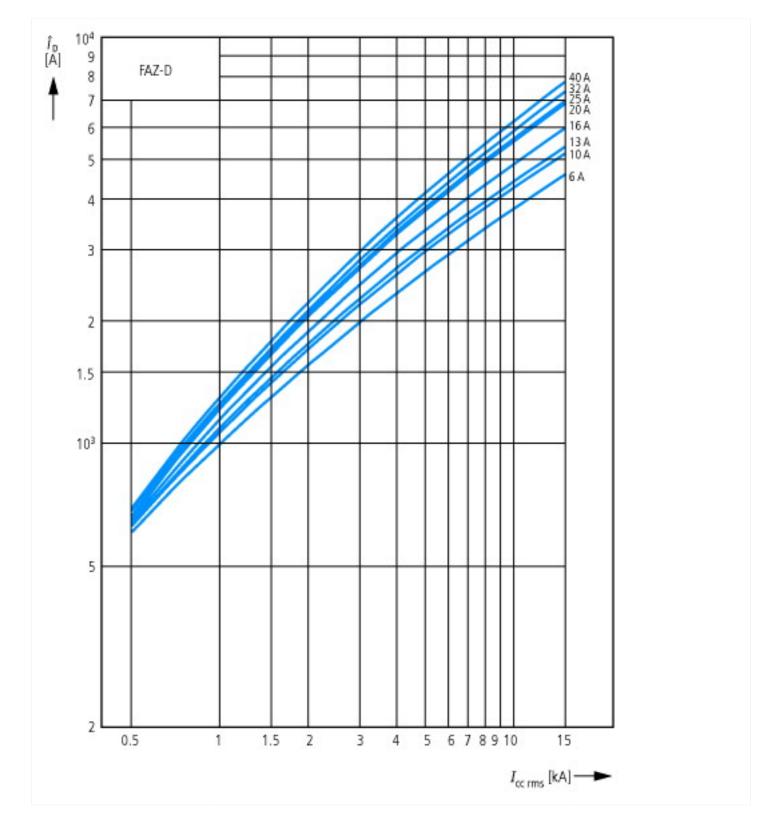
## **Characteristics**

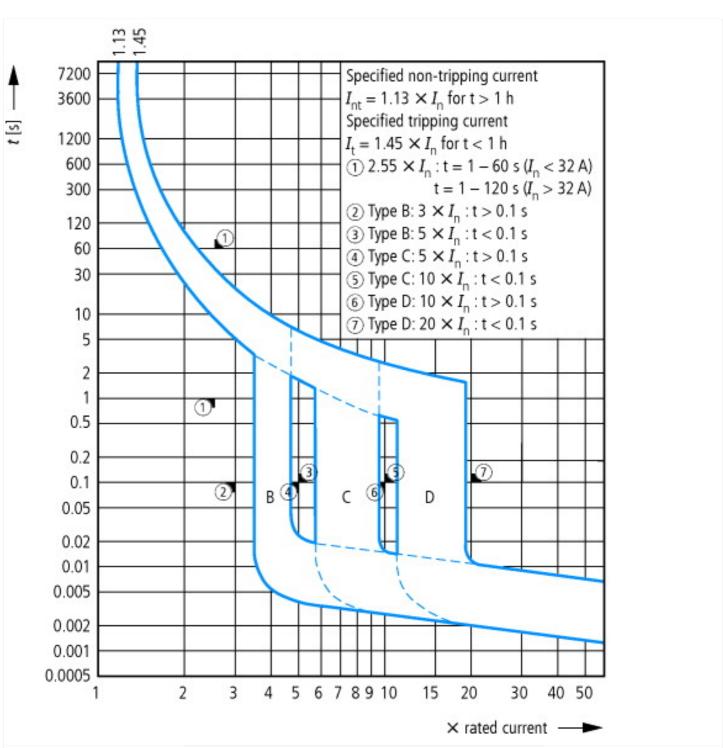


Let-through energy I<sup>2</sup>t According to IEC/EN 60898

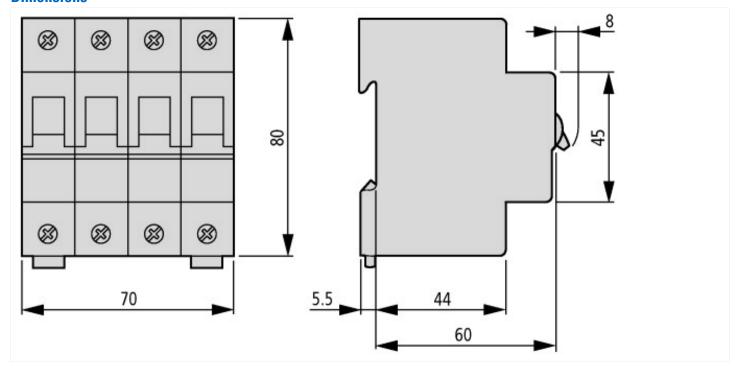








## **Dimensions**



## **Additional product information (links)**

AWA1220-1755 Circiut-breaker

AWA1220-1755 Circiut-breaker ftp://ftp.moeller.net/DOCUMENTATION/AWA\_INSTRUCTIONS/17550701.pdf