

### Over current switch, 40A, 1Np, C-Char, AC

Part no. FAZ-C40/1N Article no. 278678 Catalog No. FAZ-C40/1N



Similar to illustration

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71.3			
Basic function			Miniature circuit breakers
Number of poles			1 pole+N
Tripping characteristic			C
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	40
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 <sub>e</sub>	V	
	U <sub>e</sub>	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

Mechanical			
Standard front dimension	r	mm	45
Enclosure height	r	mm	80
Terminal protection			Finger and back-of-hand proof to BGV A2
Mounting width per pole	r	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	п	mm <sup>2</sup>	
	r	mm <sup>2</sup>	1 x 25
	n	mm <sup>2</sup>	2 x 10
Thickness of busbar material	r	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	$P_{\text{vid}}$	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	4.1
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

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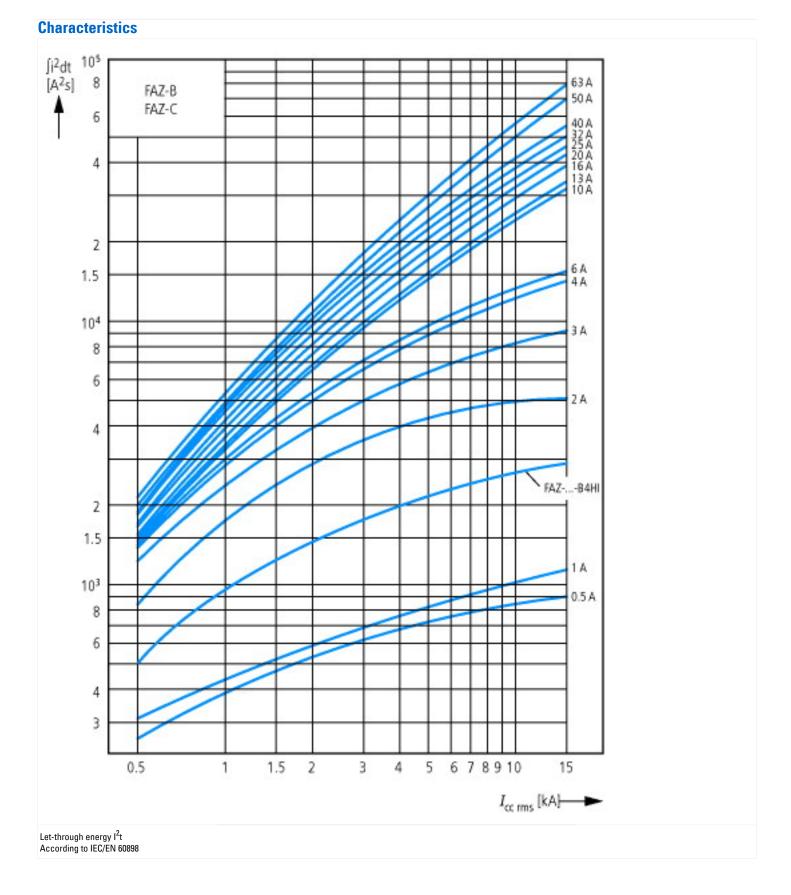
Operating ambient temperature max.	°C	75
		linear, per +1 °C, results in a 0.5% reduction of current carrying capacity
C/EN 61439 design verification		
10.2 Strength of materials and parts		
10.2.2 Corrosion resistance		Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability 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.

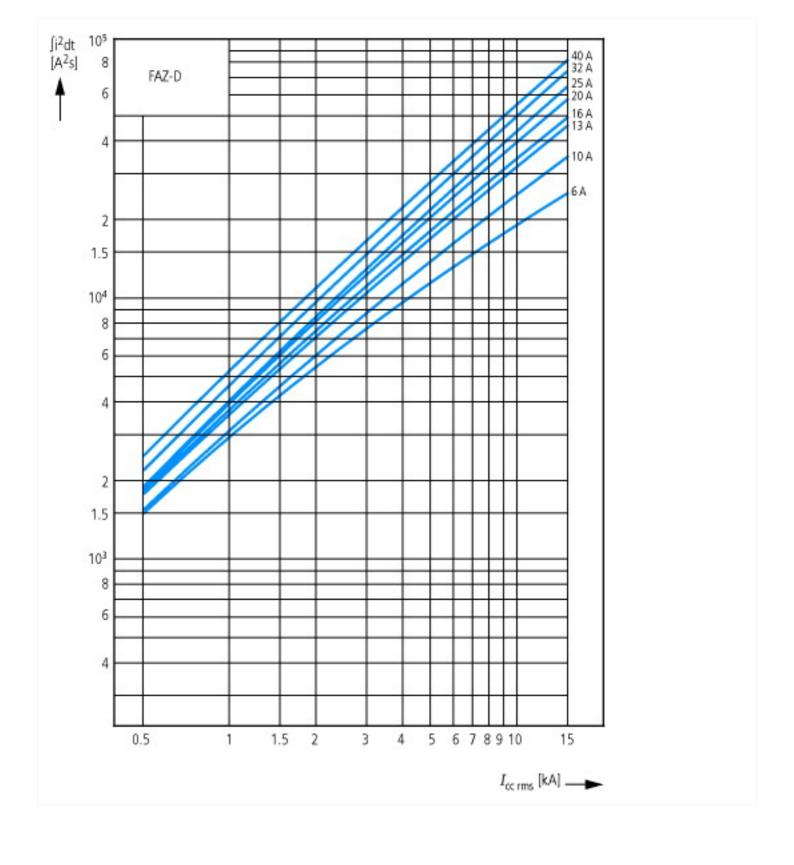
### **Technical data ETIM 6.0**

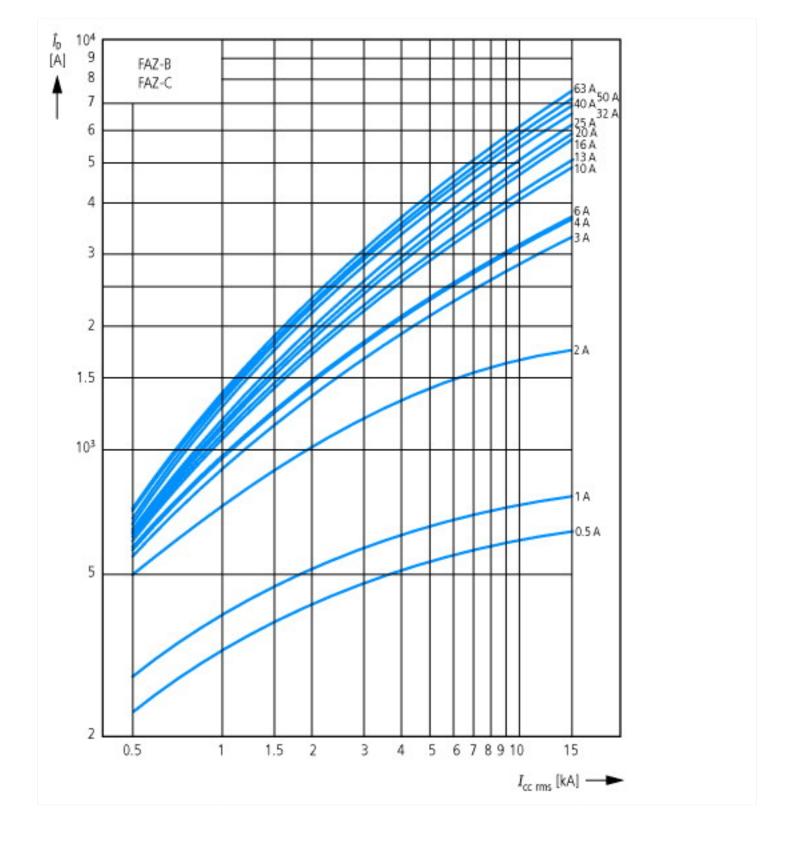
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

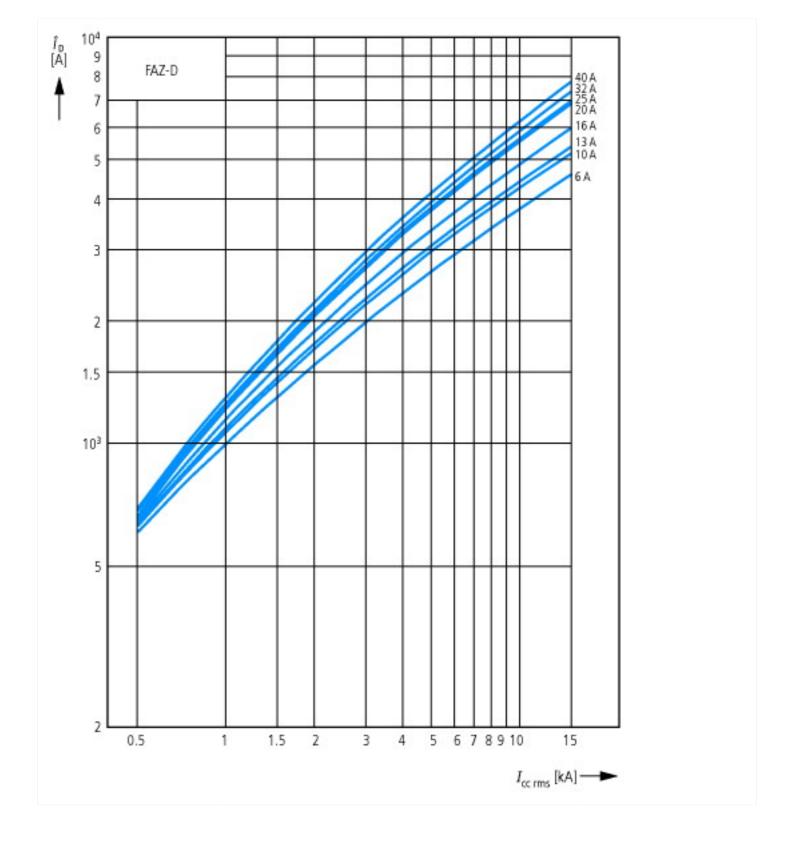
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss8.1-27-14-19-01 [AAB905011])

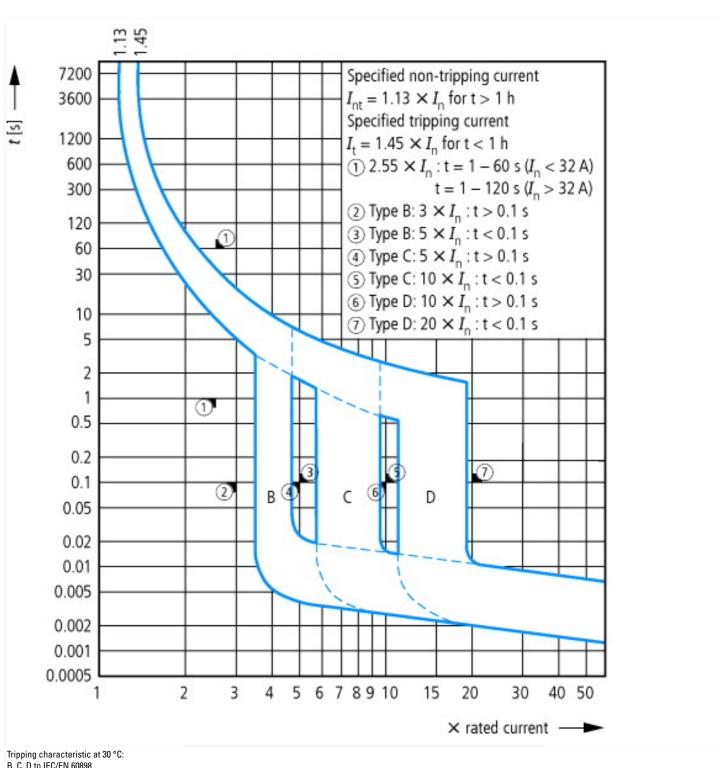
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Number of protected poles  Nominal rated current A 4 40 Nominal rated voltage V 230 Rated short-circuit breaking capacity Icn EN 60898 at 230 V KA 10 Rated short-circuit breaking capacity Icn EN 60898 at 400 V KA 15 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 15 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 15 Current limiting class AC Current limiting class 3 Frequency Hz 50-60 Concurrently switching N-neutral Suitable for flush-mounted installation No Over voltage category 3 Collidor degree 2 Width in number of modular spacings 2 Built-in degth mm 70.5 Additional equipment possible 5  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V KA 15  No Additional equipment possible 7  Possible for flush-mounted installation No  Possible for flush-mounted No  Pos	Release characteristic		С
Nominal rated current  Nominal rated voltage  Rated short-circuit breaking capacity Icn EN 60898 at 230 V  Rated short-circuit breaking capacity Icn EN 60898 at 400 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  Voltage type  Current limiting class  Frequency  Current limiting class  Frequency  Concurrently switching N-neutral  Suitable for flush-mounted installation  Over voltage category  Pollution degree  Width in number of modular spacings  Built-in depth  Additional equipment possible  Additional equipment possible	Number of poles (total)		2
Nominal rated voltage  Rated short-circuit breaking capacity Icn EN 60898 at 230 V  Rated short-circuit breaking capacity Icn EN 60898 at 400 V  Rated short-circuit breaking capacity Icn EN 60898 at 400 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V  Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  Voltage type  Current limiting class  Frequency  Current limiting N-neutral  Suitable for flush-mounted installation  Over voltage category  Pollution degree  Width in number of modular spacings  Built-in depth  Additional equipment possible  V 230  In O  Rated Short-circuit breaking capacity Icn EN 60898 at 230 V  RA 10  In O  RA 15  AC  C  Carrent Imiting class  3  Frequency  Pes  3  Pollution degree  Width in number of modular spacings  Built-in depth  Rated Short-circuit breaking capacity Icn EN 60898 at 230 V  RA 15  RA 15  AC  C  RA 15  AC  C  Suitable for flush-mounted installation  No  No  Over voltage category  Pollution degree  Width in number of modular spacings  Built-in depth  Rated Short-circuit breaking capacity Icn EN 60898 at 230 V  RA 10  RA 15  AC  C  RA 15  AC  C  RA 15  AC  C  Suitable for flush-mounted installation  No  Over voltage category  Pollution degree  Width in number of modular spacings  Rated Short-circuit breaking capacity Icn EN 60898 at 400 V  RA 15  RA 15  AC  C  RA 2  S  S  S  S  S  S  S  S  S  S  S  S  S	Number of protected poles		2
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Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type  Current limiting class  Frequency  Concurrently switching N-neutral  Suitable for flush-mounted installation  Over voltage category  Pollution degree  Width in number of modular spacings  Built-in depth  Additional equipment possible  kA  15  AC  AC  Yes  No  Yes  2  Built-in depth  mm  70.5  Yes	Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	10
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V  kA  15  Voltage type  AC  Current limiting class  Frequency  Hz  50 - 60  Concurrently switching N-neutral  Suitable for flush-mounted installation  Over voltage category  Pollution degree  Width in number of modular spacings  Built-in depth  Additional equipment possible  kA  15  AC  AC  AC  AC  AC  AC  AC  AC  AC  A	Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	10
Voltage type Current limiting class Sirequency Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth AC  AC  AC  AC  So - 60  Yes  No  2  Pollution degree 2  Width in number of modular spacings Built-in depth Additional equipment possible Yes	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	15
Current limiting class  Frequency  Concurrently switching N-neutral  Suitable for flush-mounted installation  Over voltage category  Pollution degree  Width in number of modular spacings  Built-in depth  Additional equipment possible  3  Yes  Yes  Yes  2  Wes  Additional equipment possible  3  Yes  Yes  Yes  Yes	Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	15
Frequency Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth Additional equipment possible  Hz 50 - 60 Yes  No 2 2 8 7 8 8 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	Voltage type		AC
Concurrently switching N-neutral  Suitable for flush-mounted installation  No  Over voltage category  3  Pollution degree  2  Width in number of modular spacings  2  Built-in depth  mm  70.5  Additional equipment possible	Current limiting class		3
Suitable for flush-mounted installation  Over voltage category  3  Pollution degree  2  Width in number of modular spacings  Built-in depth  Additional equipment possible  No  2  Yes	Frequency	Hz	50 - 60
Over voltage category  Pollution degree  2 Width in number of modular spacings  Built-in depth  Mm 70.5  Additional equipment possible  3  Yes	Concurrently switching N-neutral		Yes
Pollution degree 2 Width in number of modular spacings 2 Built-in depth mm 70.5 Additional equipment possible Yes	Suitable for flush-mounted installation		No
Width in number of modular spacings 2 Built-in depth mm 70.5 Additional equipment possible Yes	Over voltage category		3
Built-in depth mm 70.5 Additional equipment possible Yes	Pollution degree		2
Additional equipment possible Yes	Width in number of modular spacings		2
	Built-in depth	mm	70.5
Degree of protection (IP)	Additional equipment possible		Yes
	Degree of protection (IP)		IP20



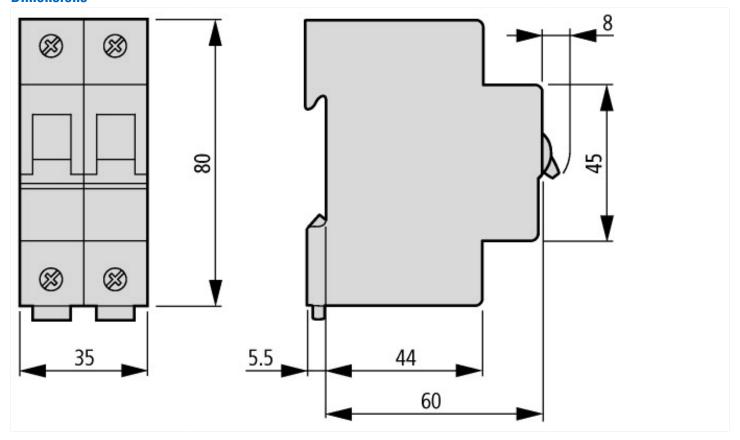








## **Dimensions**



# **Additional product information (links)**

AWA1220-1755 Circiut-breaker

AWA1220-1755 Circiut-breaker

ftp://ftp.moeller.net/DOCUMENTATION/AWA\_INSTRUCTIONS/17550701.pdf