#### **DATASHEET - AZ-4-C40**



Miniature circuit breaker (MCB), 40A, 1p, C-Char



Part no. AZ-4-C40 Catalog No. 211787 Alternate Catalog AZ-4-C40 No.

Similar to illustration

#### **Delivery program** Basic function Miniature circuit-breakers Number of poles 4 pole С Tripping characteristic Application Switchgear for industrial and advanced commercial applications Rated current I<sub>n</sub> 40 А Rated switching capacity acc. to IEC/EN 60947-2 $I_{cu}$ kA 25 Product range AZ

#### **Technical data**

		IEC/EN 60947-2
U <sub>e</sub>	V	
U <sub>e</sub>	V AC	230/400
	V DC	60 (per pole)
I <sub>cu</sub>	kA	25
	kA	20
		Similar: D, C
	A gL/gG	200
		Compliant with Class 3
Operations		> 10000
		as required
	mm	45
	mm	90
	mm	27
		IEC/EN 60715 top-hat rail
		IP20, IP40 (when fitted)
		Lift terminals
		Finger and back-of-hand proof to BGV A2
	mm <sup>2</sup>	
	mm <sup>2</sup>	2.5 50
	Ue Icu Icu	Ue   V AC     Ue   V DC     Icu   KA     Icu   KA     Operations   AgL/gG     Icu   Mm     Icu   Mm  <

### Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	А	40
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	13.7
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55
			linear, per +1 °C, results in a 0.5% reduction of current carrying capacity

IEC/EN 61439 design verification

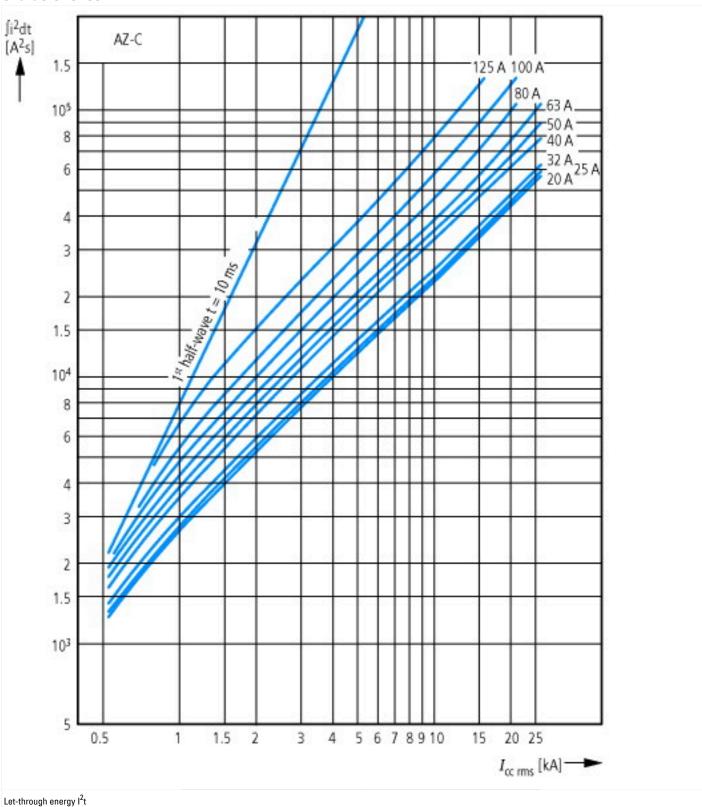
10.2 Strength of materials and parts	
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product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

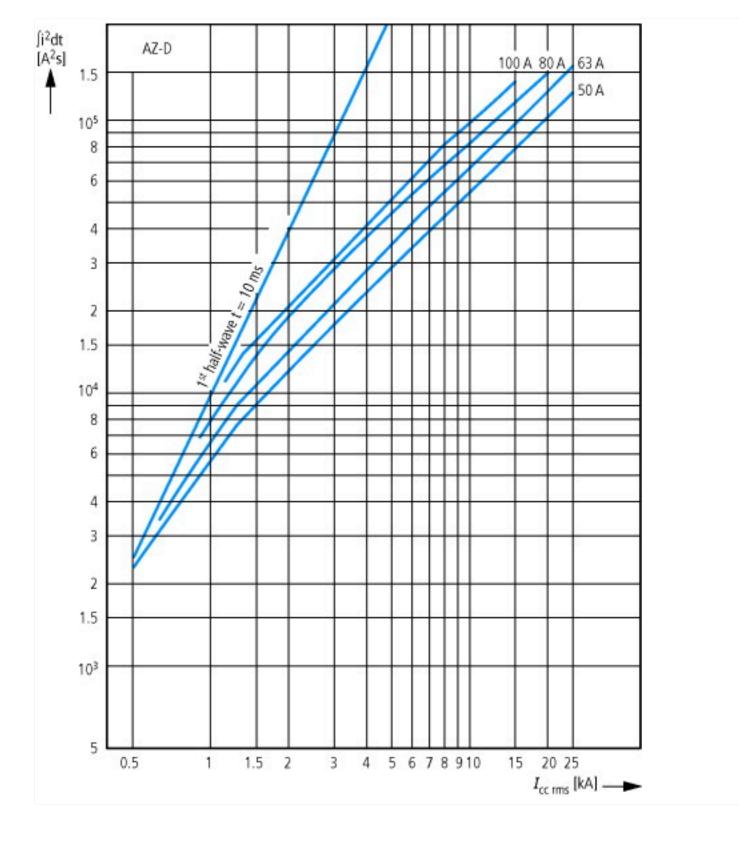
# Technical data ETIM 7.0

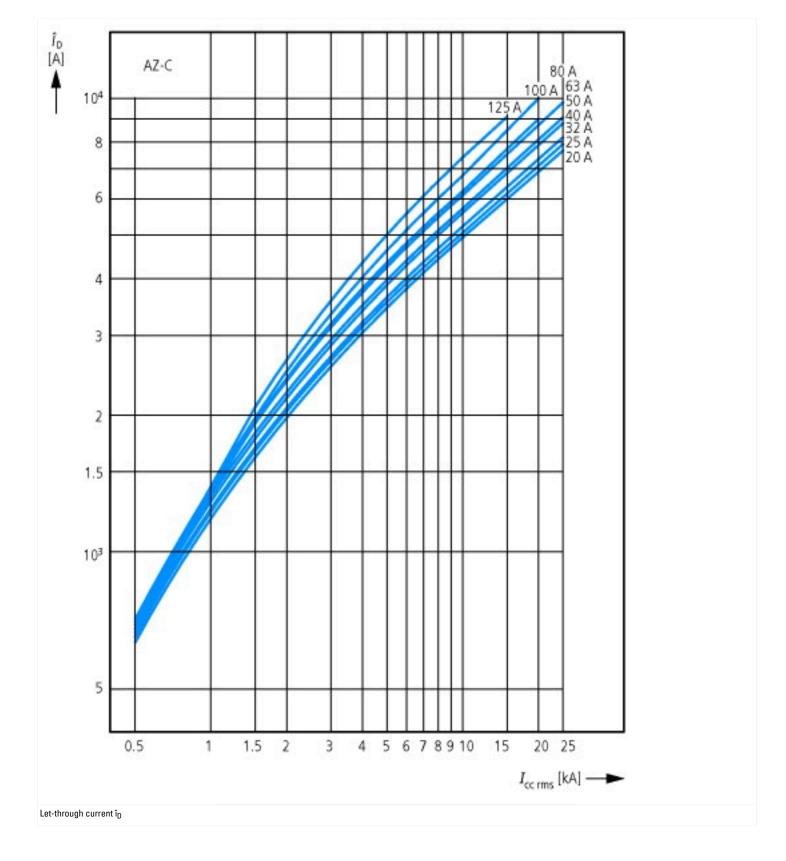
Circuit breakers and fuses	(EC000020) / Ministury	airquit brooker	(MACD) (ECODOD42)
Circuit preakers and juses	(EGOOOOZO) / IVIIIIature	e circuit breaker	(IVICD)(ECUUUU42)

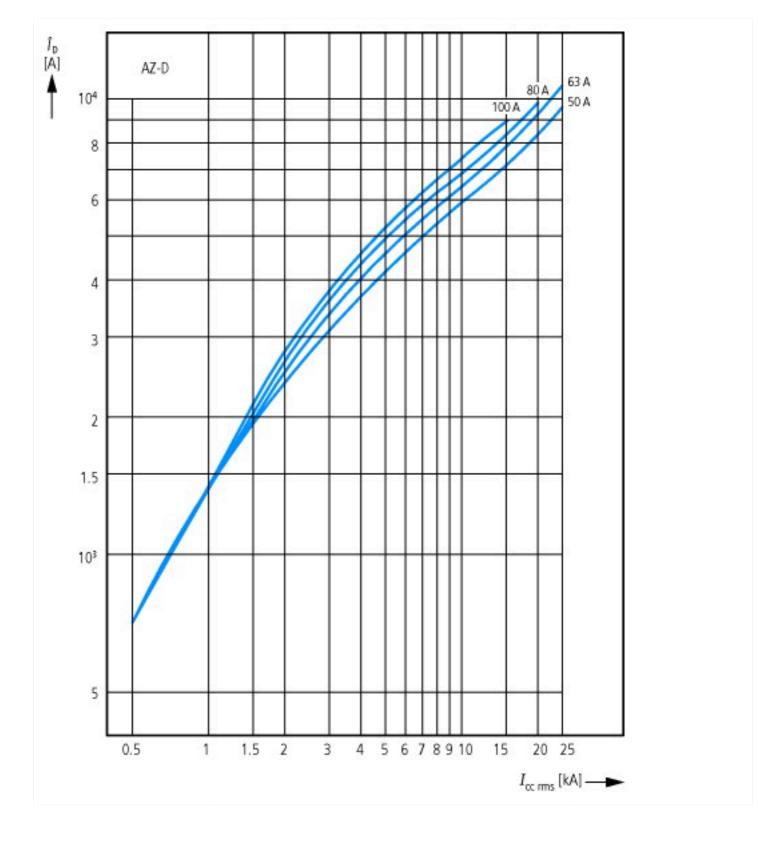
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)			
Electric engineering, automation, process control engineering / Electrical installatio (ecl@ss10.0.1-27-14-19-01 [AAB905014])	on, device / Miniatu	re circuit breake	r system (MCB) / Miniature circuit breaker (MCB)
Release characteristic		С	
Number of poles (total)		4	
Number of protected poles		1	
Rated current	А	40	
Rated voltage	V	400	
Rated insulation voltage Ui	V	440	
Rated impulse withstand voltage Uimp	kV	4	
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	0	
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	0	
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	25	
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	25	
Voltage type		AC	
Frequency	Hz	50 - 60	
Current limiting class		3	
Suitable for flush-mounted installation		No	
Concurrently switching N-neutral		Yes	
Over voltage category		3	
Pollution degree		2	
Additional equipment possible		Yes	
Width in number of modular spacings		6	
Built-in depth	mm	75	
Degree of protection (IP)		IP20	
Ambient temperature during operating	°C	-25 - 55	
Connectable conductor cross section multi-wired	mm	<sup>2</sup> 2.5 - 50	
Connectable conductor cross section solid-core	mm	<sup>2</sup> 2.5 - 50	

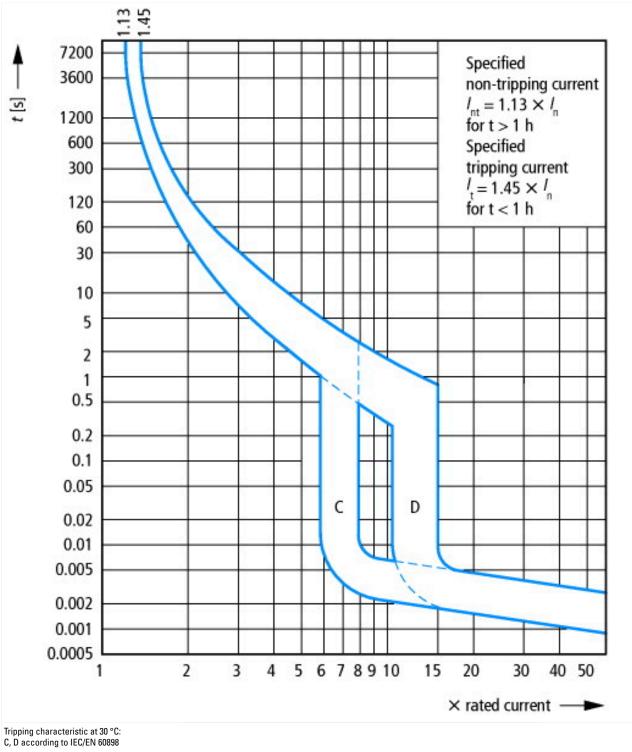






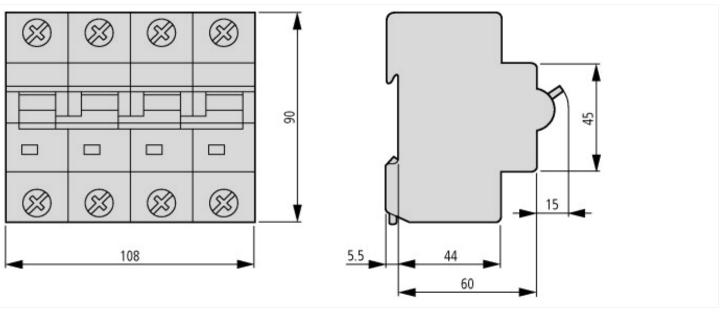






04/01/2020

#### Dimensions



# Additional product information (links)

AWA1220-1755 Miniature circuit-breakers

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