DATASHEET - AZ-3N-C125



Miniature circuit breaker (MCB), 125A, 1p, C-Char



Part no. AZ-3N-C125 Catalog No. 211813 Alternate Catalog AZ-3N-C125 No.

Delivery program

		Miniature circuit-breakers
		3 pole+N
		C
		Switchgear for industrial and advanced commercial applications
In	А	125
l _{cu}	kA	15
		AZ

Technical data Electrical

		IEC/EN 60947-2
U _e	V	
U _e	V AC	230/400
	V DC	60 (per pole)
l _{cu}	kA	15
	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 ²	
	mm ²	2.5 50
	U _e I _{cu}	Ue V AC V DC V DC Icu KA Icu A gL/gG Operations Mm Imm Mm

Design verification as per IEC/EN 61439

I _n	А	125
P _{vid}	W	0
P _{vid}	W	36.86
P _{vs}	W	0
P _{diss}	W	0
	°C	-25
	°C	55
		linear, per +1 °C, results in a 0.5% reduction of current carrying capacity
	P _{vid} P _{vid} P _{vs}	P _{vid} W P _{vid} W P _{vs} W P _{diss} W °C

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 (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@ss10.0.1-27-14-19-01 [AAB905014])						
Release characteristic			C			
Number of poles (total)			4			
Number of protected poles			3			
Rated current		А	125			
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	15			
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V		kA	15			
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)

Ambient temperature during operating

Connectable conductor cross section multi-wired

Connectable conductor cross section solid-core

°C

mm²

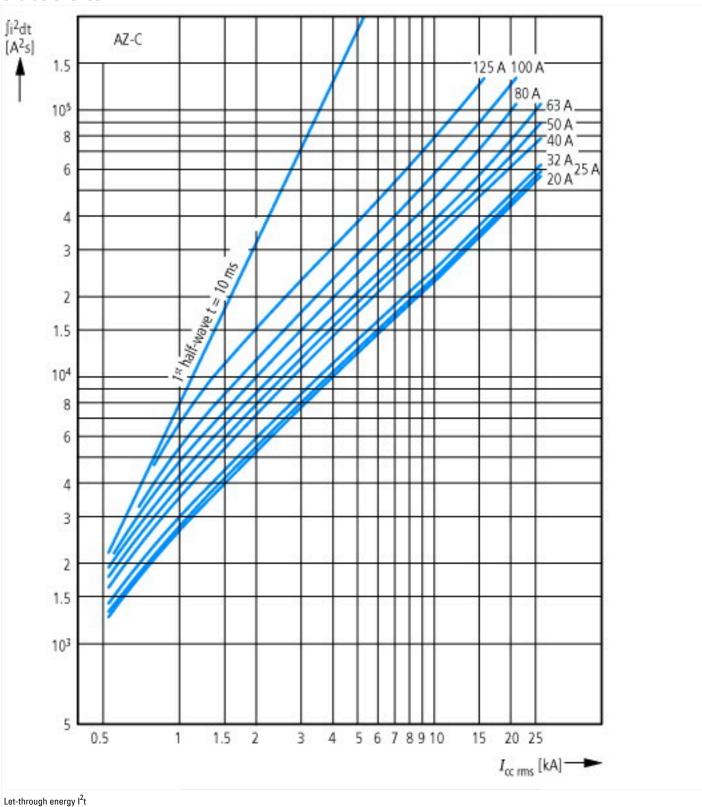
mm²

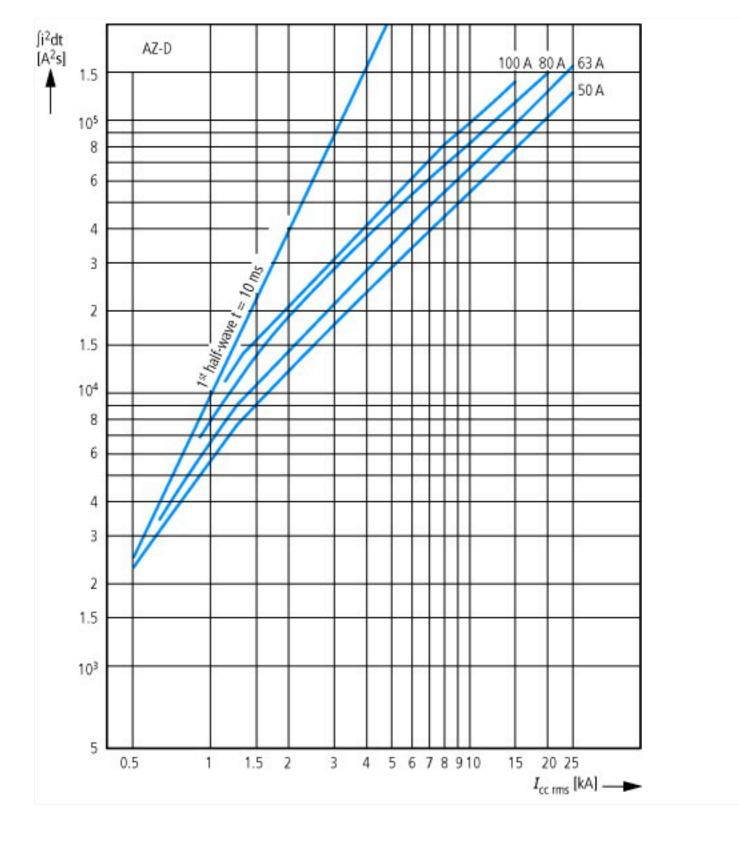
IP20

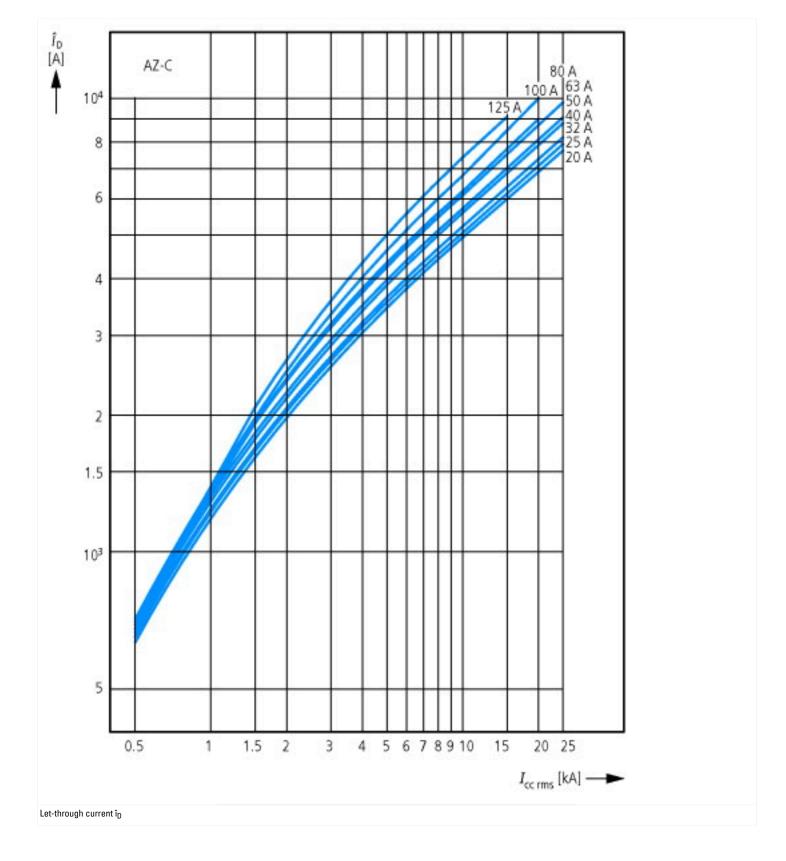
-25 - 55 2.5 - 50

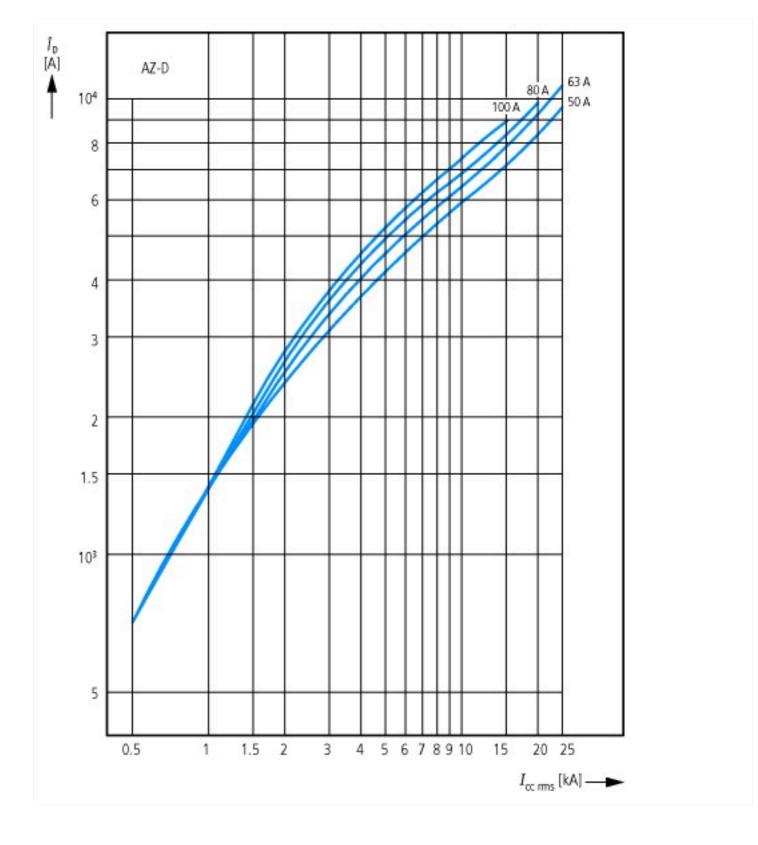
2.5 - 50

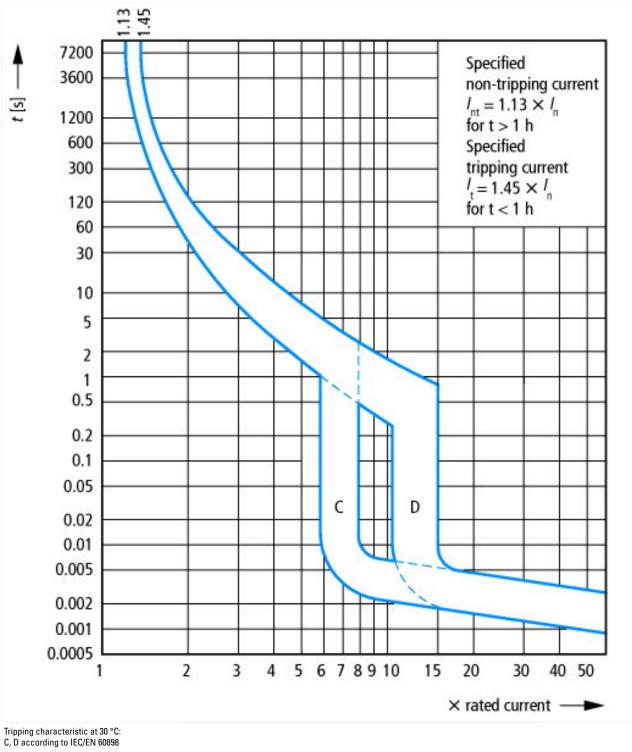






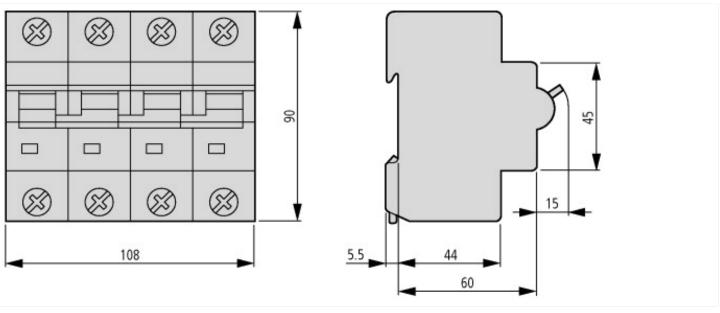






04/01/2020

Dimensions



Additional product information (links)

AWA1220-1755 Miniature circuit-breakers

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