## **DATASHEET - AZ-3-C100**



Miniature circuit breaker (MCB), 100A, 1p, C-Char



Part no. AZ-3-C100 Catalog No. 211806 Eaton Catalog No. AZ-3-C100

Similar to illustration

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Basic function			Miniature circuit-breakers
Number of poles			3 pole
Tripping characteristic			С
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	100
Rated switching capacity acc. to IEC/EN 60947-2		kA	20
Product range			AZ

#### **Technical data**

Terminals top and bottom

Terminal capacities

#### **Electrical**

Standards			IEC/EN 60947-2
Rated operational voltage	U <sub>e</sub>	V	
	U <sub>e</sub>	V AC	230/400
		V DC	60 (per pole)
Rated switching capacity acc. to IEC/EN 60947-2		kA	20
Operational switching capacity		kA	20
Characteristic			Similar: D, C
Max. back-up fuse		A gL/gG	200
Selectivity Class			Compliant with Class 3
Lifespan	Operations		> 10000
Direction of incoming supply			as required
Mechanical			
Standard front dimension		mm	45
Enclosure height		mm	90
Terminal protection			Finger and back-of-hand proof to BGV A2
Mounting width per pole		mm	27
Mounting width per pole Mounting		mm	27 IEC/EN 60715 top-hat rail
		mm	

Lift terminals

2.5 ... 50

# **Design verification as per IEC/EN 61439**

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Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	100
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	27.4
Static heat dissipation, non-current-dependent	$P_{vs}$	W	0
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature max.		°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.

 $\text{mm}^2$ 

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.

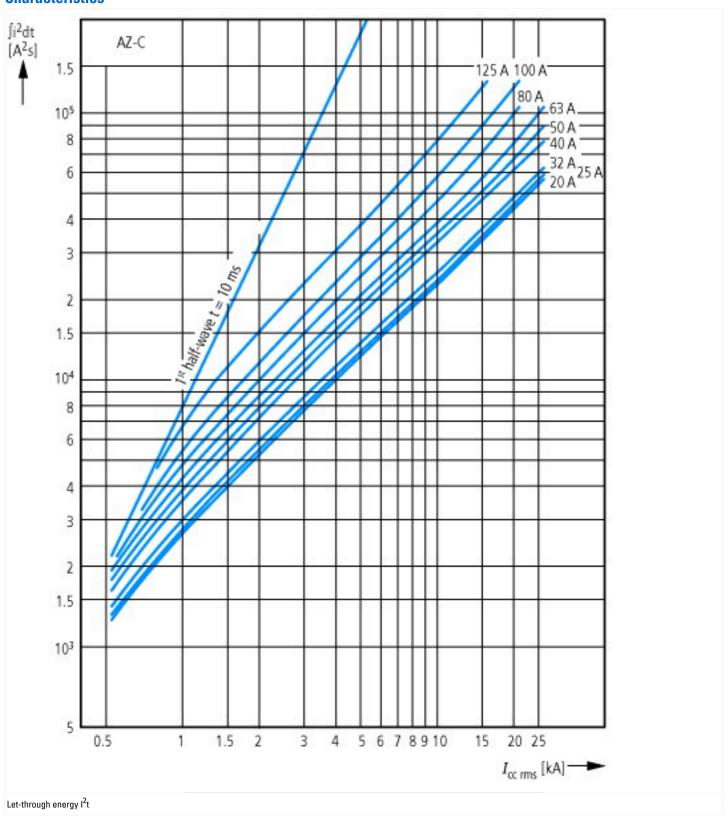
## **Technical data ETIM 6.0**

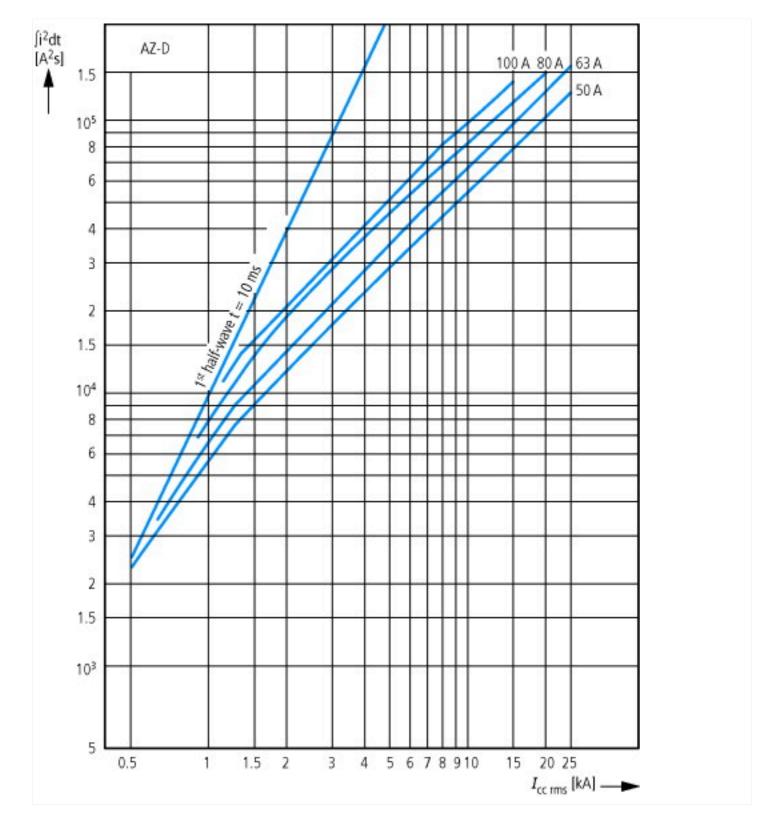
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

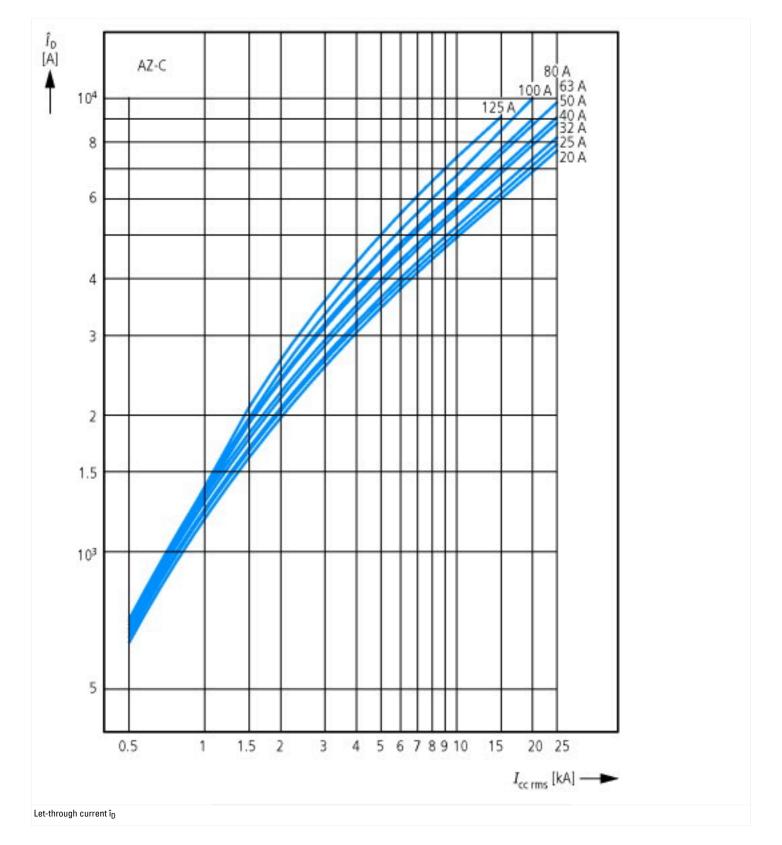
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss8.1-27-14-19-01 [AAB905011])

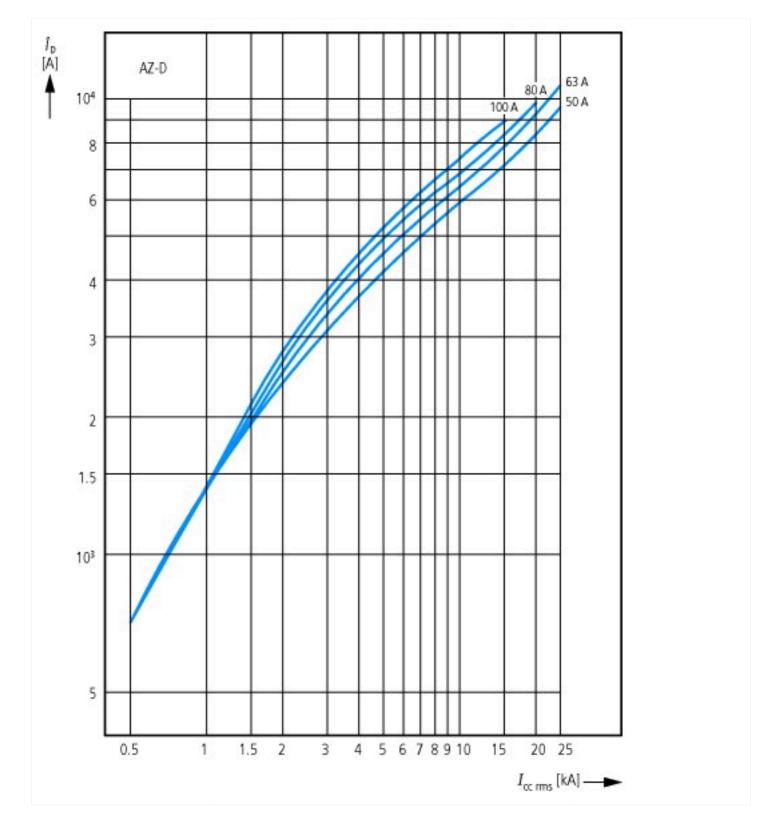
Release characteristic		С
Number of poles (total)		3
Number of protected poles		1
Nominal rated current	Α	100
Nominal rated voltage	V	400
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	20
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	20
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	0
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	0
Voltage type		AC
Current limiting class		3
Frequency	Hz	50 - 60
Concurrently switching N-neutral		No
Suitable for flush-mounted installation		No
Over voltage category		3
Pollution degree		2
Width in number of modular spacings		4.5
Built-in depth	mm	75
Additional equipment possible		Yes
Degree of protection (IP)		IP20

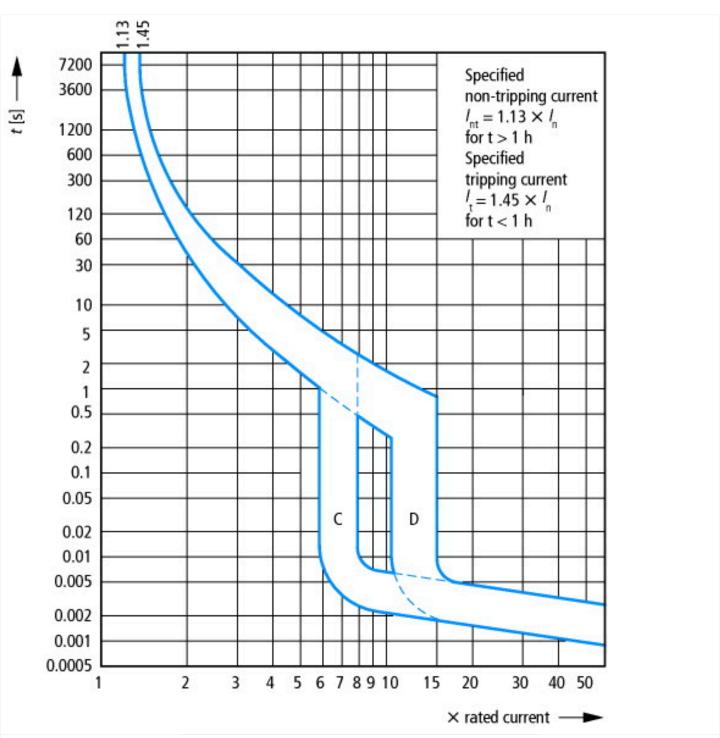
# **Characteristics**





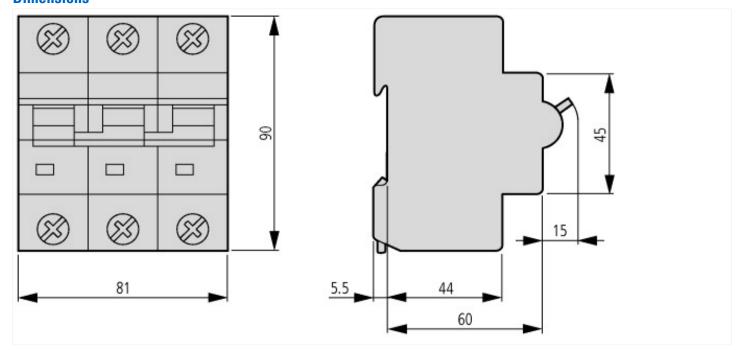






Tripping characteristic at 30 °C: C, D according to IEC/EN 60898

# **Dimensions**



# Additional product information (links)

AWA1220-1755 Miniature circuit-breakers

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