DATASHEET - AZ-3-C50

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Miniature circuit breaker (MCB), 50A, 3p, C-Char





Part no.AZ-3-C50Catalog No.211791Alternate CatalogAZ-3-C50

Similar to illustration

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Delivery program Basic function Miniature circuit-breakers Number of poles 3 pole С Tripping characteristic Application Switchgear for industrial and advanced commercial applications Rated current I_n 50 А I_{cu} Rated switching capacity acc. to IEC/EN 60947-2 kA 25 Product range AZ

Technical data

Electrical IN 4555-2; IEC 61373 Rated operational voltage Ue Ve Lectrical Ue VAC V De VDC 60 (per pole) Rated switching capacity acc. to IEC/EN 60947-2 Icu KA Operational switching capacity Icu KA 20 Nax. back-up fuse Icu KA 20 Selectivity Class Icu A gL/g 200 Ifespan Icu Icu Selectivity Class 3	
Rated operational voltage Name	
Note of the second of the s	
NDC VDC 0 (per pole) Rated switching capacity acc. to IEC/EN 60947-2 Lu KA 5 Operational switching capacity KA 0 Similar: D, C Characteristic A gL/g 20 Selectivity Class F A gL/g Similar: Mathematical Similar:	
Rated switching capacity acc. to IEC/EN 60947-2 Icu KA 2 Operational switching capacity KA 8 Characteristic KA 20 Max. back-up fuse KA 3milar: D, C Selectivity Class Max. back-up fuse Selectivity Class	
Operational switching capacity KA 20 Characteristic Similar: D, C Max. back-up fuse AgL/g6 200 Selectivity Class Gompliant with Class 3 Ifespan Gompliant with Class 3	
Characteristic Similar: D, C Max. back-up fuse A gL/gG 200 Selectivity Class Compliant with Class 3 lifespan Image: Compliant with Class 3	
Max. back-up fuse A gL/g6 200 Selectivity Class Compliant with Class 3 lifespan Image: Compliant with Class 3	
Selectivity Class 3 Compliant with Class 3	
lifespan	
Lifespan Operations > 10000	
Direction of incoming supply as required	
Nechanical	
Standard front dimension mm 45	
Enclosure height mm 90	
Mounting width per pole mm 27	
Mounting IEC/EN 60715 top-hat rail	
Degree of Protection IP20, IP40 (when fitted)	
Terminals top and bottom Lift terminals	
Terminal protection Finger and back-of-hand proof to BGV A2	
Terminal capacities mm ²	
mm ² 2.550	

Design verification as per IEC/EN 61439

Rated operational current for specified heat dissipation In A 50 Heat dissipation per pole, current-dependent Pvid W 0 Equipment heat dissipation, current-dependent Pvid W 15.4	Technical data for design verification			
Equipment heat dissipation, current-dependent Pvid W 15.4	Rated operational current for specified heat dissipation	I _n	А	50
	Heat dissipation per pole, current-dependent	P _{vid}	W	0
Obstic heat discipation and summation and the second and the secon	Equipment heat dissipation, current-dependent	P _{vid}	W	15.4
Static neat dissipation, non-current-dependent P _{vs} VV U	Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity P _{diss} W 0	Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min. °C -25	Operating ambient temperature min.		°C	-25
Operating ambient temperature max. °C 55	Operating ambient temperature max.		°C	55
linear, per +1 °C, results in a 0.5% reduction of current carrying capacity				linear, per +1 °C, results in a 0.5% reduction of current carrying capacity

IEC/EN 61439 design verification

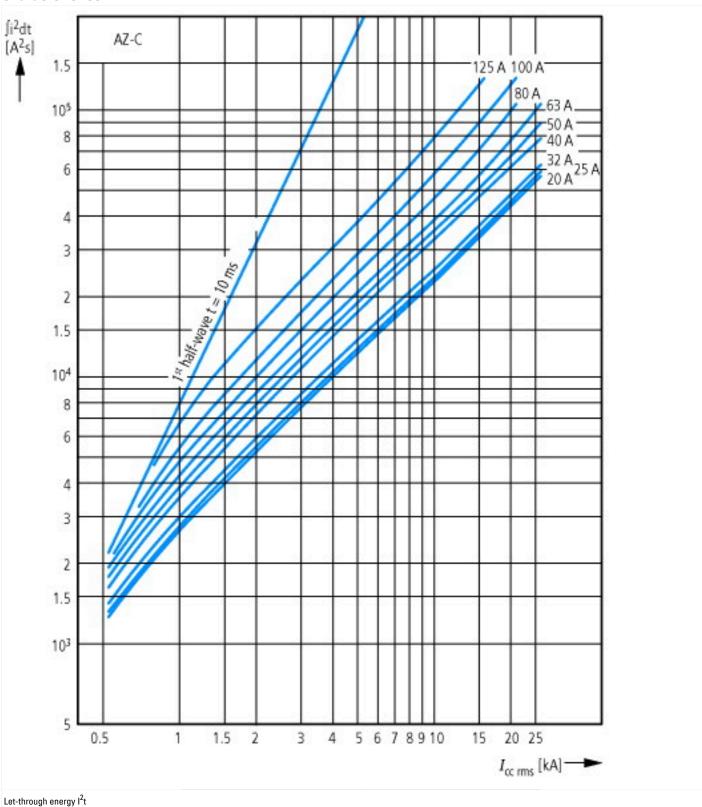
10.2 Strength of materials and parts	
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product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

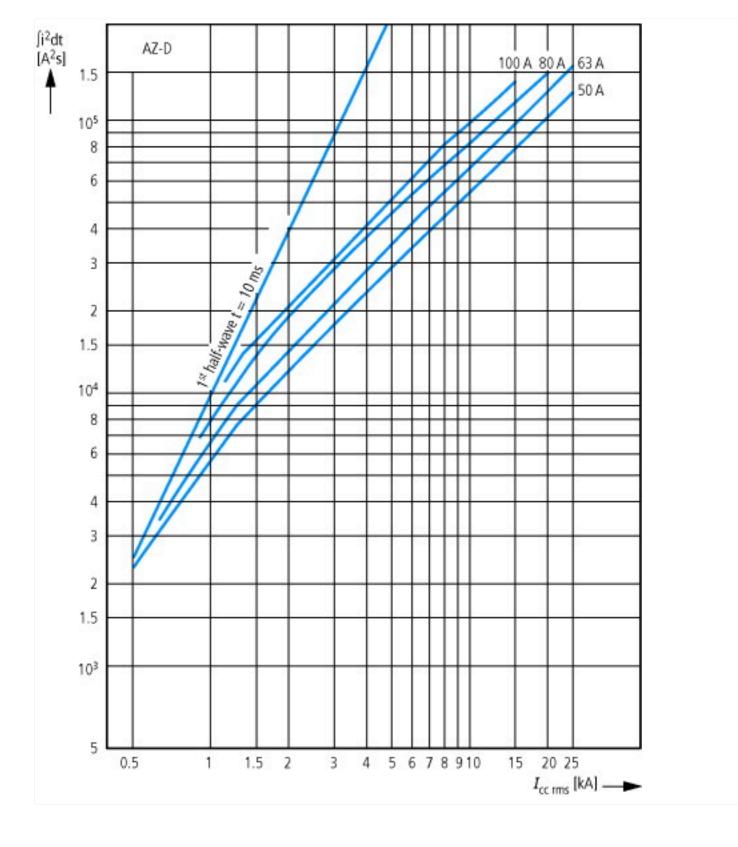
Technical data ETIM 7.0

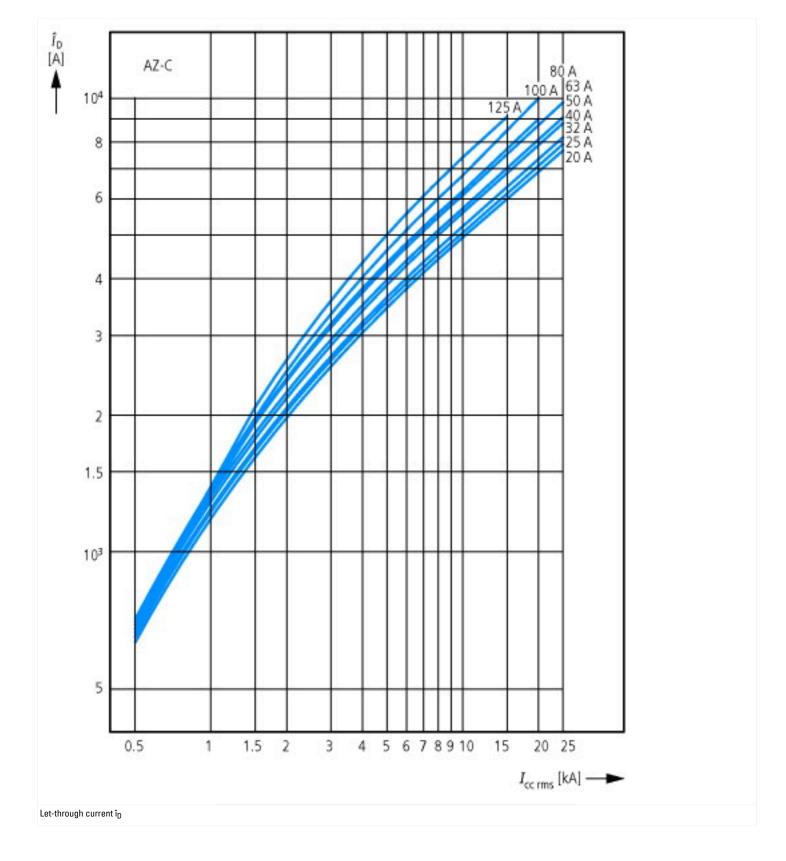
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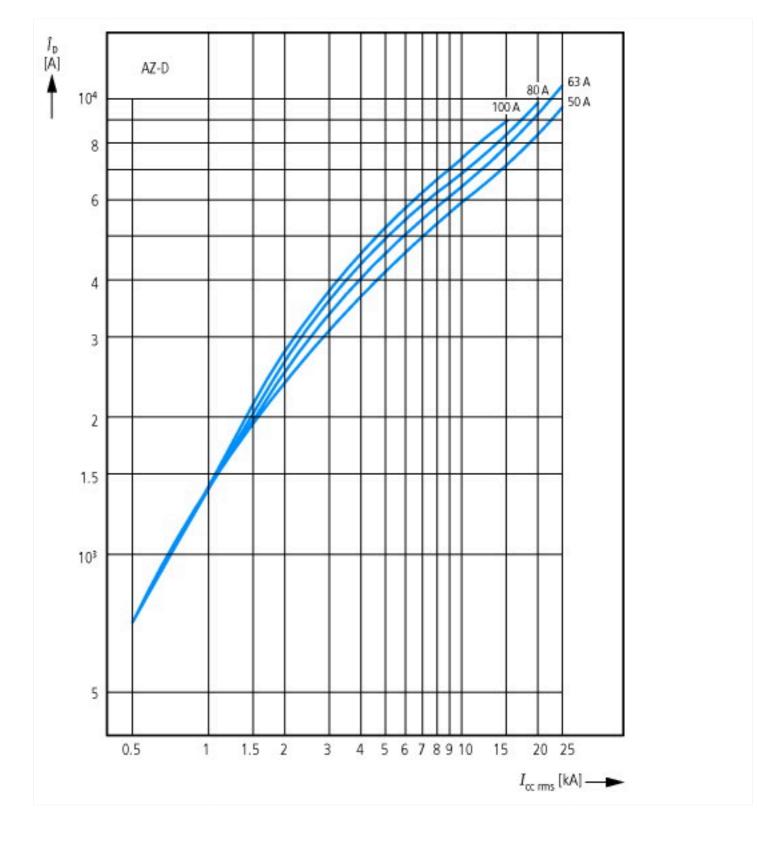
CIrcuit breakers and fuses (EG000020) / Mimature circuit breaker (MGB) (EG000042)		
Electric engineering, automation, process control engineering / Electrical installation (ecl@ss10.0.1-27-14-19-01 [AAB905014])	ı, device / Miniature cir	rcuit breaker system (MCB) / Miniature circuit breaker (MCB)
Release characteristic		C
Number of poles (total)		3
Number of protected poles		1
Rated current	А	50
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		No
Over voltage category		3
Pollution degree		2
Additional equipment possible		Yes
Width in number of modular spacings		4.5
Built-in depth	mm	75
Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 55
Connectable conductor cross section multi-wired	mm²	2.5 - 50
Connectable conductor cross section solid-core	mm²	2.5 - 50

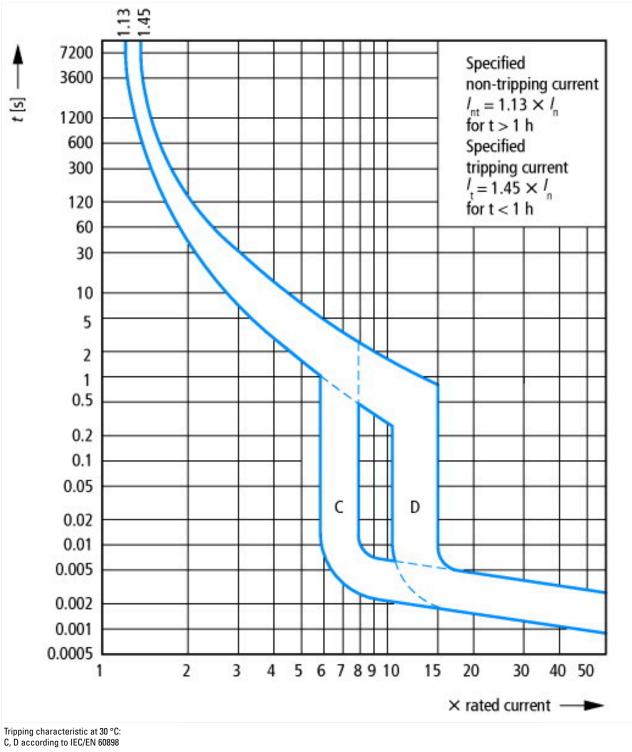












09/12/2021

Dimensions

