## DATASHEET - AZ-3N-C125

Miniature circuit breaker (MCB), 125A, 3p+N, C-Char



Part no.	AZ-3N-C125
	211813

General specifications	
Product name	Eaton Moeller series xEffect - AZ MCB
Part no.	AZ-3N-C125
EAN	4015082118136
Product Length/Depth	90 millimetre
Product height	75 millimetre
Product width	108 millimetre
Product weight	0.827 kilogram
Compliances	RoHS conform
Certifications	IEC/EN 60947-2 EN45545-2 IEC 61373
Product Tradename	xEffect - AZ MCB
Product Type	МСВ
Product Sub Type	None
Delivery program	
Application	Switchgear for industrial and advanced commercial applications xEffect - Switchgear for industrial and advanced commercial applications
Number of poles	Three-pole + N
Number of poles (total)	4
Number of poles (protected)	3
Tripping characteristic	C
Release characteristic	C
Amperage Rating	125 A
Туре	AZ Miniature circuit breaker
Technical Data - Electrical	
Voltage type	AC
Voltage rating	230 V AC / 400 V AC
Voltage rating at DC	60 V DC (per pole)
Rated operational voltage (Ue) - max	400 V
Rated insulation voltage (Ui)	440 V
Rated impulse withstand voltage (Uimp)	4 kV
Frequency rating - min	50 Hz
Frequency rating - max	60 Hz
Rated switching capacity (IEC/EN 60947-2)	15 kA
Operational switching capacity	20 kA
Rated short-circuit breaking capacity (EN 60898) at 230 V	0 kA
Rated short-circuit breaking capacity (EN 60898) at 400 V	0 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 230 V	15 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 400 V	15 kA
Admissible back-up fuse - max	200 A gL/gG
Selectivity class	3
Lifespan, electrical	10000 operations
Overvoltage category	
Pollution degree	2
Direction of incoming supply	As required
Technical Data - Mechanical	
Frame	45 mm
Enclosure width	90 mm

Width in number of modular spacings   6     Built in depth   75 mm     Mounting width per pole   77 mm     Mounting width per pole   77 mm     Mounting width per pole   77 mm     Mounting width per pole   78 mm     Degree of protection   1920 (whole fitted)     Terminals (top and bottom)   114 terminals     Connectable conductor cross section (multi-wired) - max   78 mm <sup>2</sup> Connectable conductor cross section (multi-wired) - max   78 mm <sup>2</sup> Terminal protocion   78 mm <sup>2</sup> Rated operational current dopendent   125 A     Equipment heat dissipation, non-current-dependent   90 W     Heat dissipation, current-dependent   90 W     Heat dissipation, current-dependent   90 W     10222 formsion resistance   1024 Resistance to uitre-violet (UV) radiation     10222 f	
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10.4 Clearances and creepage distances Meets the product standard's requirements.	ed.
10.5 Protection against electric shock Does not apply, since the entire switchgear needs to be evaluated by the entire	ed.
10.6 Incorporation of switching devices and components Does not apply, since the entire switchgear needs to be evaluated by the entire switchgear needs to be evaluate	ed.
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.	
10.9.2 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 calculated provide heat dissipation data for the devices.	
10.11 Short-circuit rating   Is the panel builder's responsibility. The specifications for the specifications for the specifications for the specifications for the specification.	ition. Eaton will
10.12 Electromagnetic compatibility   Is the panel builder's responsibility. The specifications for the specificatine specifications for the specifications for th	
10.13 Mechanical function   The device meets the requirements, provided the information in leaflet (IL) is observed.	witchgear must be
Additional information	witchgear must be witchgear must be
Current limiting class 3	witchgear must be witchgear must be
Features Concurrently switching N-neutral Additional equipment possible	witchgear must be witchgear must be
Special features Ambient temperature hint: a 1 °C increase results in a 0.5% line current carrying capacity	witchgear must be witchgear must be
Used with AZ Miniature circuit breaker	witchgear must be witchgear must be the instruction

## **Technical data ETIM 9.0**

Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)		
Electric engineering, automation, process control engineering / Electrical installation, [AAB905019])	, device / Miniature ci	rcuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss13-27-14-19-01
Built-in depth	mm	75
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 according to EN 60898 at 230 V	kA	0
Voltage type		AC
Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V	kA	0
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V	kA	15
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V	kA	15
Frequency	Hz	50 - 60
Power loss	W	
Current limiting class		3
Flush-mounted installation		No
Concurrently switching neutral conductor		Yes
Over voltage category		3
Pollution degree		2
Additional equipment possible		Yes
Width in number of modular spacings		6
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
Explosion-proof		No