Miniature circuit breaker (MCB), 100A, 2p, D-Char



Part no. AZ-2-D100 211827 EL Number 1601049

(Norway)

(Norway) General specifications	
Product name	Eaton Moeller series xEffect - AZ MCB
Part no.	AZ-2-D100
EAN	4015082118273
Product Length/Depth	90 millimetre
Product height	75 millimetre
Product width	54 millimetre
Product weight	0.462 kilogram
Compliances	RoHS conform
Certifications	IEC/EN 60947-2 IEC 61373 EN45545-2
Product Tradename	xEffect - AZ MCB
Product Type	MCB
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	Two-pole
Number of poles (total)	2
Number of poles (protected)	2
Tripping characteristic	D
Release characteristic	D
Amperage Rating	100 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	III
Pollution degree	2
Direction of incoming supply	As required
Technical Data - Mechanical	
Frame	45 mm

Width in number of modular spacings Built-in depth Mounting width per pole Mounting width Mounting Wethod Degree of protection IF Terminals (top and bottom) Connectable conductor cross section (solid-core) - min Connectable conductor cross section (solid-core) - max	30 mm 375 mm 27 mm 27 mm Top-hat rail IEC/EN 60715 IP40 (when fitted) IP20 Lift terminals
Built-in depth Mounting width per pole Mounting width Mounting Method Degree of protection If Terminals (top and bottom) Connectable conductor cross section (solid-core) - min Connectable conductor cross section (solid-core) - max	75 mm 27 mm 27 mm Top-hat rail IEC/EN 60715 IP40 (when fitted) IP20 Lift terminals
Mounting width per pole Mounting width Mounting Method Degree of protection If Terminals (top and bottom) Connectable conductor cross section (solid-core) - min Connectable conductor cross section (solid-core) - max	27 mm 27 mm Top-hat rail IEC/EN 60715 IP40 (when fitted) IP20 Lift terminals
Mounting width Mounting Method Degree of protection If Terminals (top and bottom) Connectable conductor cross section (solid-core) - min Connectable conductor cross section (solid-core) - max	27 mm Top-hat rail IEC/EN 60715 IP40 (when fitted) IP20 Lift terminals
Mounting Method Degree of protection IF Terminals (top and bottom) Connectable conductor cross section (solid-core) - min Connectable conductor cross section (solid-core) - max	Top-hat rail IEC/EN 60715 IP40 (when fitted) IP20 Lift terminals
Degree of protection IF Terminals (top and bottom) Connectable conductor cross section (solid-core) - min Connectable conductor cross section (solid-core) - max	IP40 (when fitted) IP20 Lift terminals
Terminals (top and bottom) Connectable conductor cross section (solid-core) - min Connectable conductor cross section (solid-core) - max	IP20 Lift terminals
Connectable conductor cross section (solid-core) - min 2. Connectable conductor cross section (solid-core) - max 50	
Connectable conductor cross section (solid-core) - max 50	2.5 mm ²
	2.5 11111
Connectable conductor cross section (multi-wired) - min	50 mm²
	2.5 mm ²
Connectable conductor cross section (multi-wired) - max 50	50 mm ²
Terminal capacity (control cable)	2.5 mm² - 50 mm²
Terminal protection	Finger and hand touch safe, DGUV VS3, EN 50274
Design verification as per IEC/EN 61439 - technical data	
Rated operational current for specified heat dissipation (In)	100 A
Heat dissipation per pole, current-dependent 0	0 W
Equipment heat dissipation, current-dependent	18.3 W
	0 W
Heat dissipation capacity 0	D.W
Ambient operating temperature - min	-25 °C
	55 °C
Design verification as per IEC/EN 61439	
	Meets the product standard's requirements.
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·	Meets the product standard's requirements.
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	Does not apply, since the entire switchgear needs to be evaluated.
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	Does not apply, since the entire switchgear needs to be evaluated.
	Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated.
2 .	· · · · · · · · · · · · · · · · · · ·
, ,	Meets the product standard's requirements.
	Does not apply, since the entire switchgear needs to be evaluated.
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	Is the panel builder's responsibility.
	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
0	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
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	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
Additional information	
Current limiting class 3	3
Features	Additional equipment possible
·	Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity

Technical data ETIM 9.0

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@ss13-27-14-19-01 [AAB905019])		
Built-in depth	mm	75
Release characteristic		D
Number of poles (total)		2
Number of protected poles		2
Rated current	Α	100
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		No
Over voltage category		3
Pollution degree		2
Additional equipment possible		Yes
Width in number of modular spacings		3
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