## Miniature circuit breaker (MCB), 50A, 4p, C-Char

Powering Business Worldwide\*

Part no. AZ-4-C50 211792

**EL Number** 1601070

(Norway)

(Norway)	
General specifications	
Product name	Eaton Moeller series xEffect - AZ MCB
Part no.	AZ-4-C50
EAN	4015082117924
Product Length/Depth	90 millimetre
Product height	75 millimetre
Product width	108 millimetre
Product weight	0.91 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	Four-pole
Number of poles (total)	4
Number of poles (protected)	4
Tripping characteristic	С
Release characteristic	С
Amperage Rating	50 A
Туре	AZ Miniature circuit breaker
Technical Data - Electrical	Hillindary of our of our of
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)	25 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	25 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 400 V	25 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

Enclosure width	90 mm
Width in number of modular spacings	6
· · ·	75 mm
Built-in depth	
Mounting width per pole	27 mm
Mounting width	27 mm
Mounting Method	Top-hat rail IEC/EN 60715
Degree of protection	IP40 (when fitted) IP20
Terminals (top and bottom)	Lift terminals
Connectable conductor cross section (solid-core) - min	2.5 mm <sup>2</sup>
Connectable conductor cross section (solid-core) - max	50 mm <sup>2</sup>
Connectable conductor cross section (multi-wired) - min	2.5 mm <sup>2</sup>
Connectable conductor cross section (multi-wired) - max	50 mm <sup>2</sup>
Terminal capacity (control cable)	2.5 mm <sup>2</sup> - 50 mm <sup>2</sup>
Terminal protection	Finger and hand touch safe, DGUV VS3, EN 50274
esign verification as per IEC/EN 61439 - technical data	
•	EO A
Rated operational current for specified heat dissipation (In)	50 A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	15.93 W
Static heat dissipation, non-current-dependent	0 W
Heat dissipation capacity	0 W
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	55 °C
esign verification as per IEC/EN 61439	
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
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10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise	Is the panel builder's responsibility.  The panel builder is responsible for the temperature rise calculation. Eaton will
10.11 Short-circuit rating	provide heat dissipation data for the devices.  Is the panel builder's responsibility. The specifications for the switchgear must
10.12 Electromagnetic compatibility	observed.  Is the panel builder's responsibility. The specifications for the switchgear must observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
dditional information	iodiot (12) io oboot tod.
Current limiting class	3
Features	Additional equipment possible Concurrently switching N-neutral
Special features	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)

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Electric engineering, automation, process control engineering / Electrical installation, de [AAB905019])	evice / Miniature cir	cuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss13-27-14-19-
Built-in depth	mm	75
Release characteristic		C
Number of poles (total)		4
Number of protected poles		4
Rated current	Α	50
Rated voltage	V	400
tated insulation voltage Ui	V	440
ated impulse withstand voltage Uimp	kV	4
ated short-circuit breaking capacity Icn according to EN 60898 at 230 V	kA	0
Oltage type		AC
ated short-circuit breaking capacity Icn according to EN 60898 at 400 V	kA	0
ated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V	kA	25
ated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V	kA	25
requency	Hz	50 - 60
ower loss	W	
urrent limiting class		3
lush-mounted installation		No
oncurrently switching neutral conductor		Yes
ver voltage category		3
ollution degree		2
dditional equipment possible		Yes
/idth in number of modular spacings		6
egree of protection (IP)		IP20
mbient 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