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



Part no. AZ-C100 211804 EL Number 1601076

(Norway)	
General specifications	
Product name	Eaton Moeller series xEffect - AZ MCB
Part no.	AZ-C100
EAN	4015082118044
Product Length/Depth	90 millimetre
Product height	75 millimetre
Product width	27 millimetre
Product weight	0.229 kilogram
Compliances	RoHS conform
Certifications	IEC/EN 60947-2 IEC 61373 EN45545-2
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	Single-pole
Number of poles (total)	1
Number of poles (protected)	1
Tripping characteristic	С
Release characteristic	C
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	230 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)	20 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	20 kA
Rated short-circuit breaking capacity (IEC 60947-2) at 400 V	20 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 medular spacings  1.5  Buil-in depth  75 mm  Mounting width per pole  22 mm  Mounting width per pole  23 mm  Mounting width per pole  35 mm  Mounting width per pole  46 mm  Mounting width per pole  47 mm  Mounting width per pole  48 mm  Mounting width per pole  49 mm  Mounting width per pole  40 mm	F. 1	20
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Commerciable conductor cross service stable care) - max  Commerciable conductor cross service must vivared - min  2.5 mm²  Terminal capacity (control cable)  Terminal protection  Finger and hand touch safe, DSUV VSQ, EN 90274  Design verification as per IEC/EN 61439 - technical data  Band courredoor correct for specified least dissipation (in)  Next dissipation pay pile, current dependent  0.W  Static heat dissipation, unan-unant-dependent  0.W  Static heat dissipation, unan-unant-dependent  0.W  Static heat dissipation, unan-unant-dependent  0.W  Ambient operation or, perify  Metal this product standard's requirements.  102.2 Corroion resistance  Metal this product standard's requirements.  102.22 Corroion resistance  Metal this product standard's requirements.  102.23 Verification of terminal stability of enclosures  Metal this product standard's requirements.  102.23 Verification of terminal stability of enclosures  Metal this product standard's requirements.  102.23 Verification of terminal stability of enclosures  Metal this product standard's requirements.  102.23 Verification of terminal stability of enclosures  Metal this product standard's requirements.  102.23 Verification of terminal stability of enclosures  Metal this product standard's requirements.  102.24 Verification of terminal stability of enclosures  Metal this product standard's requirements.  102.25 Urfling  Dees not apply, since the entire switcinger metals to be evaluated.  102.26 Indicated i impact  102.27 Naccipions  Metal this product standard's requirements.  102.28 Protection of extracting distances  Metal this product standard's requirements.  102.29 Protection of extracting distances  Metal this product standard's requirements.  102.10 Protection extraction distances and components  103 Dees not apply, since the entire switcinger medis to be evaluated.  104 Clearances and crespose distances  Metal this product standard's requirements.  105 Dees not apply, since the entire switcinger medis to be evaluated.  106 Temperature rise  107	Terminals (top and bottom)	Lift terminals
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Connectable conductor cross saction (multi-wined) - max  Terminal capacity (control cable)  Frammal procession  Design verification as per IECEN 61439 - technical data  Rated operational current for specified heat dissipation (in)  Heat dissipation, current-dependent  Stric heat dissipation, current-dependent  Metal dissipation, current-dependent  DW  Heat dissipation capacity  Anbient operating temperature - min  25 °C  Anbient operating temperature - min  25 °C  Design verification as per IECEN 61439  10.2.2 Corresion resistance  10.2.31 Verification of thermal stability of annicours  10.2.23 Verification of resistance of insulating materials to normal heat  10.2.2.31 Verification of resistance of insulating materials to normal heat  10.2.2.31 Verification of resistance of insulating materials to normal heat  10.2.32 Service of a verification of thermal stability of annicours  10.2.32 Service of a verification of thermal stability of annicours  10.2.4 Resistance to ultra-violet (UV) rediction  10.2.5 Mechanical impact  Design or dapply, since the unite evolutiopear needs to be evaluated.  10.2.5 Mechanical impact  Design or dapply, since the unite evolutiopear needs to be evaluated.  10.2.6 Verification and creepage distances  Design or dapply, since the unite evolutiopear needs to be evaluated.  10.4.6 Verification of expecting distances  Design or dapply, since the unite evolutiopear needs to be evaluated.  10.4.1 Verification and creepage distances  10.5.2 Protection against electric shock  10.6 In carporation of exhibiting divices and components  10.6 Protection against electric shock  10.6 In carporation of exhibiting divices and components  10.8 Testing of enology even made of insulating material  10.9 Temperature rise  10.1 Temperature rise  10.0 Te	Connectable conductor cross section (solid-core) - max	50 mm <sup>2</sup>
Terminal capacity (control cable)  Perminal protection  Besign verification as per IEC/EN 61439 - technical data  Rated operational current for specificial theat dissipation, current dependent  Bated dissipation per pole, current dependent  OW  Heat dissipation capacity  Anniher operating temperature - min  Bated operation of resistance of importance - min  Anniher operating temperature - min  Bated operation of resistance of importance - min of the resistance - min of the re	Connectable conductor cross section (multi-wired) - min	2.5 mm <sup>2</sup>
Terminal protection  Design verification as per IEC/EN 61439 - tochnical data  Rated operational current for specified heat dissipation in In International Protection of State Protection	Connectable conductor cross section (multi-wired) - max	50 mm <sup>2</sup>
Besign verification as per IEC/EN 61439 - technical data  Rated operational current for specified heat dissipation (In)  Heat dissipation per pele, current-dependent  State heat dissipation, current dependent  State heat dissipation, on current dependent  O W  Heat dissipation, on current dependent  O W  Antherit operating temperature - min  Antherit operating temperature - min  Antherit operating temperature - max  Design verification as per IEC/EN 61439  10.2.2 Corrosion resistance  Meats the product standard's requirements.  10.2.3.1 Verification of thermal stability of enclosures  Meats the product standard's requirements.  10.2.3.2 Verification of thermal stability of enclosures  Meats the product standard's requirements.  10.2.3.3 Resist of insul. mat to shormal heat/five by internal elect, effects  Meats the product standard's requirements.  Meats the product standard's requirements.  Meats the product standard's requirements.  10.2.3 Liverification of resistance of insulating materials to normal heat  10.2.3 Liverification of the mail stability of enclosures  Meats the product standard's requirements.  Meats the product standard's requirements.  Meats the product standard's requirements.  10.2.3 Liverification of resistance of insulating materials to normal heat  Meats the product standard's requirements.  Meats the product standard's requirements.  10.2.5 Liverification of seasonables  Does not apply, since the entire switchgear needs to be evaluated.  Meats the product standard's requirements.  Meats the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  10.2 Protection against electric shock  Does not apply, since the entire switchgear needs to be evaluated.  10.3 Representation of switching devices and components  10.3 Representation of sections conductors  10.3 Representation of s	Terminal capacity (control cable)	2.5 mm² - 50 mm²
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## **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

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		С
Number of poles (total)		1
Number of protected poles		1
Rated current	А	100
Rated voltage	V	230
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	20
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V	kA	20
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		1.5
Degree of protection (IP)		IP20
Ambient temperature during operating	°C	-25 - 55
Connectable conductor cross section multi-wired	mm <sup>2</sup>	2.5 - 50
Connectable conductor cross section solid-core	mm <sup>2</sup>	2.5 - 50
Explosion-proof		No