## Miniature circuit breaker (MCB), 80A, 1p, C-Char, AC



Part no. PLHT-C80 247987 EL Number 1609506

(Norway)

(Norway)	
General specifications	E. M. II
Product name	Eaton Moeller series xPole - PLHT/-V MCB
Part no.	PLHT-C80
EAN	4015082479879
Product Length/Depth	90 millimetre
Product height	75 millimetre
Product width	27 millimetre
Product weight	0.224 kilogram
Compliances	RoHS conform
Product Tradename	xPole - PLHT/-V
Product Type	MCB
Product Sub Type	None
Delivery program	
Application	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	С
Amperage Rating	80 A
Туре	Miniature circuit breaker PLHT
Technical Data - Electrical	
Voltage type	AC
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)	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
Overvoltage category	III
Pollution degree	2
Technical Data - Mechanical	
Width in number of modular spacings	1.5
Built-in depth	75 mm
Degree of protection	IP20
Connectable conductor cross section (solid-core) - min	2.5 mm²
Connectable conductor cross section (solid-core) - max	50 mm <sup>2</sup>
Connectable conductor cross section (multi-wired) - min	2.5 mm²
Connectable conductor cross section (multi-wired) - max	50 mm <sup>2</sup>
Design verification as per IEC/EN 61439 - technical data	
	00.4
Rated operational current for specified heat dissipation (In)	80 A
Heat dissipation per pole, current-dependent	0 W
Equipment heat dissipation, current-dependent	7.14 W

provide heat dissipation data for the devices.  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.13 Mechanical function  Current limiting class  Features  Special features  provide heat dissipation data for the devices.  Is the panel builder's responsibility. The specifications for the switchgear must observed.  The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.  Additional information  Current limiting class  Additional equipment possible  Ambient temperature hint: a 1 °C increase results in a 0.35% linear reduction of the switchgear must observed.  A minimal specifications for the switchgear must observed.  The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.  Additional equipment possible	Static heat dissipation, non-current-dependent	0 W
Ambient operating temperature - max  Design verification as per IEC/EN 61439  10.2.2 Corrosion resistance  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  In the panel builder's responsibility.  The panel builder's responsibility.  The panel builder's responsibility. The specifications for the switchgear must observed.  Meets the product standard's requirements.  Meets the product standard's requirement	Heat dissipation capacity	0 W
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Special features  Ambient temperature hint: a 1 °C increase results in a 0.35% linear reduction of	Current limiting class	3
	Features	Additional equipment possible
current carrying capacity	Special features	Ambient temperature hint: a 1 °C increase results in a 0.35% linear reduction of current carrying capacity

## **Technical data ETIM 8.0**

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@ss10.0.1-27-14-19-01 [AAB905014])

(eci@ss10.0.1-27-14-19-01 [AAB905014])		
Built-in depth	mm	75
Release characteristic		C
Number of poles (total)		1
Number of protected poles		1
Rated current	Α	80
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	20
Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V	kA	20
Frequency	Hz	50 - 60
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	mm²	2.5 - 50
Connectable conductor cross section solid-core	mm²	2.5 - 50
Explosion-proof		No