Miniature circuit breaker (MCB), 100A, 3Np, D-Char, AC



Part no. PLHT-D100/3N 248075

General specifications	
Product name	Eaton Moeller series xPole - PLHT/-V MCB
Part no.	PLHT-D100/3N
EAN	4015082480752
Product Length/Depth	90 millimetre
Product height	75 millimetre
Product width	108 millimetre
Product weight Product weight	0.862 kilogram
Compliances	RoHS conform
Product Tradename	xPole - PLHT/-V
Product Type	МСВ
Product Sub Type	None
Delivery program	
Application	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	D
Release characteristic	D
Amperage Rating	100 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)	15 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
Overvoltage category	III
Pollution degree	2
Technical Data - Mechanical	
Width in number of modular spacings	6
Built-in depth	75 mm
Degree of protection	IP20
Connectable conductor cross section (solid-core) - min	2.5 mm ²
Connectable conductor cross section (solid-core) - max	50 mm ²
Connectable conductor cross section (multi-wired) - min	2.5 mm ²
Connectable conductor cross section (multi-wired) - max	50 mm ²
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 W
Equipment heat dissipation, current-dependent	28.29 W

provide heat dissipation data for the devices. 10.11 Short-circuit rating	Static heat dissipation, non-current-dependent	0 W
Ambient operating temperature - max Design verification as per IEC/EN 61439 10.22 Corrosion resistance 10.23.1 Verification of thermal stability of enclosures 10.23.2 Verification of resistance of insulating materials to normal heat 10.23.3 Resist of insul. mat to abnormal heat/fire by internal elect. offects 10.24.3 Resistance to ultra-violet (UV) radiation 10.25 Lifting 10.25 Lifting 10.26 Mechanical impact 10.27 Inscriptions 10.30 agree of protection of assemblies 10.4 Clearances and creepage distances 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Time and electrical circuits and connections 10.9 Time panel builder's responsibility. 10.9 The panel builder's responsibility. 10.9 The panel builder's responsibility. 10.10 Temperature rise 10.11 Short-circuit rating Additional information Current limiting class 5 Additional equipment possible	Heat dissipation capacity	0 W
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Current limiting class 3 Features Additional equipment possible	10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
Features Additional equipment possible	Additional information	
	Current limiting class	3
Concurrency Switching in-reducat	Features	Additional equipment possible Concurrently switching N-neutral
Special features Ambient temperature hint: a 1 °C increase results in a 0.35% linear reduction 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@ss10.01-27-14-19-01 (AAB905014))

(ecl@ss10.0.1-27-14-19-01 [AAB905014])		
Built-in depth	mm	75
Release characteristic		D
Number of poles (total)		4
Number of protected poles		3
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
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	mm ²	2.5 - 50
Connectable conductor cross section solid-core	mm²	2.5 - 50
Explosion-proof		No