## DATASHEET - PLHT-C80/3

Miniature circuit breaker (MCB), 80A, 3p, C-Char, AC



PLHT-C80/3 248039

EL-Nummer 0001609526

(Norway)



Similar to illustration

Basic function       Ministrue circuit-breakers       Jole         Number of pales       Jole       Jole         Tripping tharacteristic       Sole       C         Application       In       A       Bole         Reted current       In       A       Bole         Reted current       In       A       Bole         Product range       In       In       In         Product range       In       In       In       In         Product range       In       In       In       In       In       In         Product range       In	Delivery program			
Number of poles         3pole         3pole           Tripping characteristic         C         Switchgear for industrial and advanced commercial applications           Application         In         A         0           Rated current         In         A         0           Rated switching capacity acc. to IEC/EN 60947-2         In         KA         20           Product rang         In         KA         20           Rated switching capacity acc. to IEC/EN 60947-2         In         KA         20           Product rang         In         KA         20           Rated switching capacity acc. to IEC/EN 60947-2         In         KA         20           Rated switching capacity acc. to IEC/EN 60947-2         In         KA         20           Rated switching capacity acc. to IEC/EN 60947-2         In         X         20           Rated switching capacity acc. to IEC/EN 60947-2         In         X         20           Rated displation peropicined heat dissis				Miniature circuit-breakers
Tripping characteristic       Image: Im				
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Rated switching capacity acc. to IEC/EN 60947-2         Icu         KA         Description         Des		la.	Δ	•
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Technical data         Electrical         Rated switching capacity acc. to EC/EN 60947-2       Icu       KA       20         Design verification as per IEC/EN 61439       Intervent of the segn verification       Intervent of the segn verification       Intervent of the segn verification         Rated operational current for specified heat dissipation       Intervent of the segn verification       Intervent of the segn verification       Intervent of the segn verification         Rated operational current-dependent       Pvid       W       0         Equipment heat dissipation, current-dependent       Pvid       W       0         Static heat dissipation, con-current-dependent       Pvid       W       0         Operating ambient temperature min.       Pvid       W       0         Operating ambient temperature max.       *C       55       102.2 Corrosion resistance       Mest the product standard's requirements.         102.2 Strength of materials and parts       Mest the product standard's requirements.       Mest the product standard's requirements.         102.2.2 Verification of resistance of insulating materials to normal heat       Mest the product standard's requirements.       Mest the product standard's requirements.         102.2.3 Verification of resistance of insulating materials to anormal heat       Mest the product standard's requirements.       Mest the product standard's requirements. <td></td> <td>Cu</td> <td>ка</td> <td></td>		Cu	ка	
Electrical         Rated switching capacity acc. to EC/EN 60447-2       Icu       IA       20         Descing verification as per IEC/EN 61439         Bachnical data for design verification       In       IA       80         Rated operational current for specified heat dissipation       In       A       80         Read operational current for specified heat dissipation       In       A       80         Read operational current-dependent       Poid       W       0         Read dissipation, non-current-dependent       Poid       W       14.4         Static heat dissipation, non-current-dependent       Poid       W       0         Operating ambient temperature min.       Poids       W       0         Operating ambient temperature max.       Poids       V       0         ID2.2 Strength of materials and parts       FCE       55       102.2 Corresion resistance       Inear, per +1 °C, results in a 0.35% reduction of current carrying capacity         ID2.3.1 Verification of tresistance of insulting materials to normal heat       Meets the product standard's requirements.         ID2.3.2 Verification of resistance of insulting materials to normal heat       Meets the product standard's requirements.         ID2.3.2 Verification of resistance of insulting materials to normal heat       Meets the p	Product range			PLHI
Rated switching capacity acc. to IEC/EN 60947-2       Icu       KA       20         Design verification as per IEC/EN 614399         Design verification       In       A         Rated operational current for specified heat dissipation       In       A       80         Heat dissipation per pole, current-dependent       Puid       W       0         Equipment heat dissipation, current-dependent       Puid       W       0         Static heat dissipation on-current-dependent       Puid       W       0         Heat dissipation capacity       Pdiss       W       0         Operating ambient temperature min.       Pdiss       W       0         Operating ambient temperature max.       "C       25         IEC/EN 61439 design verification       FC       55         10.2.2 Corrosion resistance       Incal statistic n d parts       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 abnormal heat and fire due to internal electric effects       Meets the product standard's requirements.         10.2.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects       Meets the product standard's requirements. </td <td></td> <td></td> <td></td> <td></td>				
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				Meets the product standard's requirements.
10.2.5 Lifting Does not apply, since the entire switchgear needs to be evaluated.	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.	10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions Meets the product standard's requirements.	10.2.7 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.	10.3 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.	10.4 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.	10.5 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.	10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	10.7 Internal electrical circuits and connections			
10.8 Connections for external conductors Is the panel builder's responsibility.	10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties				
10.9.2 Power-frequency electric strength Is the panel builder's responsibility.	10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material Is the panel builder's responsibility.	10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.10 Temperature rise       The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.	10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## **Technical data ETIM 7.0**

Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

Electric engineering, automation, process control engineering / Electrical installation, dev (ecl@ss10.0.1-27-14-19-01 [AAB905014])	ice / Miniature ci	rcuit breaker system (MCB) / Miniature circuit breaker (MCB)
Release characteristic		С
Number of poles (total)		3
Number of protected poles		3
Rated current	А	80
Rated voltage	V	400
Rated insulation voltage Ui	V	440
Rated impulse withstand voltage Uimp	kV	4
Rated short-circuit breaking capacity Icn EN 60898 at 230 V	kA	0
Rated short-circuit breaking capacity Icn EN 60898 at 400 V	kA	0
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	kA	20
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	kA	20
Voltage type		AC
Frequency	Hz	50 - 60
Current limiting class		3
Suitable for flush-mounted installation		No
Concurrently switching N-neutral		No
Over voltage category		3
Pollution degree		2
Additional equipment possible		Yes
Width in number of modular spacings		4.5
Built-in depth	mm	75
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