## DATASHEET - PLHT-B80/3



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





## **Delivery program**

Basic functionMiniture sincurberbasesMiniture sincurberbasesNumber of pairs304304Application05Application05Rade current00Rade current00Point00Rade current00Rade current00Rade current00Rade surveting regardly act to ECDEN 0697-200Rade surveting regardly act	Derivery program			
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Application     Southgeor for industrial and advanced commercial applications       Rind current     In     A     80       Rind current     In     A     80       Rind current     In     In     PL     PL       Rind current     In     PL     PL     PL       Technical data     Electrical     Filt     PL     PL       Technical data     Electrical     Filt     PL     PL     PL       Technical data     Electrical     Filt     PL     PL <t< td=""><td>Number of poles</td><td></td><td></td><td>3 pole</td></t<>	Number of poles			3 pole
Named current In A B   Rated switching capacity act: to EDEN BSBY-2 Inco RA 20   Product range PUHT PUHT   Contractal data Electrical Rated switching capacity act: to EDEN BOBY-2 Inco RA 20   Rated switching capacity act: to EDEN BOBY-2 Inco RA 20   Descination content for space IEDE/ELEC/EN G1439   Technical data Electrical Gaspation on Content for space IEDE/ELEC/EN G1439   Rated orgenitation content for space IEDE/ELEC/EN G1439   Technical data Electrical Gaspation on Content for space IEDE/ELEC/EN G1439   Rated orgenitation content for space IEDE/ELEC/EN G1439   Rated switching capacity content data dispation   Rated switching capacity content data dispation In A 80   Rated switching capacity content data dispation In A 80   Rated switching capacity content data dispation on Content data dispation non-Content data dis requirements. </td <td>Tripping characteristic</td> <td></td> <td></td> <td>В</td>	Tripping characteristic			В
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Product range   PHT     Electrical data Electrical     Reted watching capacity acc. to EUCN 8584-2   Ico   A   20     Design verification as per IEC/EN 61439     Reted controls a corrent dependent   Prod   W   0     Reted operational current dependent   Prod   W   0     Econome and isolation, corrent-dependent   Prod   W   0     Static heat dissipation, corrent-dependent   Prod   W   0     Querenting ambient temperature max.   C   2-3   0     Operating ambient temperature max.   C   5-   1     102.2 Strengt of materials and parts   C   5-   1     102.2 Strengt of materials and parts   C   5-   1     102.2 Verification of resistance of insulting materials to abnormal heat and dispination or resistance of insulting materials to abnormal heat and dispination or resistance of insulting materials to abnormal heat and dispination or resistance of insulting materials to abnormal heat and dispination or resistance of insulting materials to abnormal heat and dispination or resistance of insulting materials to abnormal heat and dire due to in formal abability of enciparters   Meets the product standard's requirements.     102.2 Meritation of resistance of insultation materials to abnormal heat and dire	Rated current	I <sub>n</sub>	A	80
Product range     PHT       Technical data Electrical     Image: Image	Rated switching capacity acc. to IEC/EN 60947-2	leu	kA	20
Technical data Bectrical Reids witching capacity act. to EUCEN 8689-72     Los     KA     20       Descing verification as per IEC/EN 61439     Interventional duration of segure verification Reids operational current for segure verification     Interventional duration of segure verification Reids operational current dependent     Pende     W     0       Exclusion that dissipation, non-current dependent     Pende     W     0     0       Operating ambient temperature min.     Pende     W     0     0       Operating ambient temperature min.     Pende     W     0     0       Operating ambient temperature max.     Pendee     W     0     0       102.2 Corresion resistance     Pendee     W     0     0     0       102.2 Corresion resistance     Pendee     W     0		<sup>cu</sup>		
Electrical   Law   KA   A     Rated workshing capacity act. to IEC/EN 60947-2   Law   KA   A     Design verification as per IEC/EN 61439	riodatiungo			
Electrical   Law   KA   A     Rated workshing capacity act. to IEC/EN 60947-2   Law   KA   A     Design verification as per IEC/EN 61439	Technical data			
Rated switching capacity acc. to IECEN 00007-2 Iu Ka 20   Descing verification as per IEC/EN 61439   Technical data for design verification   Rated operational current of specified heat dissipation In A 00   Heat dissipation per pole, current-dependent Pod W 0   Estimation at the dissipation, current-dependent Pod W 0   Operating ambient temperature min. C 25   Operating ambient temperature max. *C 25   ID22 Strotch data dispation of thermal stability of encicurues *C 25   ID22 Strotch dramatification of thermal stability of encicurues *C 25   ID22 Strotch dramatification of thermal stability of encicurues *C 25   ID22 Strotgh of materials and parts *C 25   ID22 Strotgh of materials dispation in attrials to atommal heat *C 45   ID22 Strotgh of materials in a dispating materials to atommal heat *C 25   ID22 Strotgh of materials and parts *C 46 *C   ID22 Strotgh of material electric differs *C *C 25   ID22 Strotgh of materials in a disting materials to atommal heat *C *C 25   ID22 Strotgh of materials in a distins *C *C *C				
Technical data for design verification   In   In     Rated operational current for specified based dissipation   In   In   In     Rated operational current for specified based dissipation   In   In   In     Rated operational current for specified based dissipation   In   In   In     Equipment heat dissipation, current-dependent   Puid   W   In     Static heat dissipation, current-dependent   Puid   W   In     Operating ambient temperature max.   "C   25     ID 22 Strength of materials and parts   "C   25     ID 22 Strength or materials and parts   "C   25     ID 22 Strength or materials and parts   "C   25     ID 22 Strength or materials and parts   "C   Meets the product standard's requirements.     ID 22 Strength or materials and parts   "C   Standard's requirements.     ID 22 Strength or materials and parts   "Meets the product standard's requirements.     ID 22 Strength or materials and parts   "Meets the product standard's requirements.     ID 22 Strength or materials and parts   Meets the product standard's requirements.     ID 22 Strength or materials backet the product standard's requirements.   Meets the produ		l <sub>cu</sub>	kA	20
Technical data for design verification   In   A   80     Rated operational current for specified heat dissipation   In   A   80     Heat dissipation, current dependent   Pade   W   0     Equipment heat dissipation, current dependent   Pade   W   0     Heat dissipation, current dependent   Pade   W   0     Heat dissipation, current dependent   Pade   W   0     Operating ambient temperature min.   °C   25     Operating ambient temperature max.   °C   55     IB22 Strength of materials and parts   intear, per +1 °C, results in a 0.35% reduction of current carrying capacity     IB22 Strength of materials tailing of enclosures   Meets the product standard's requirements.     10.23.1 Verification of resistance of insulating materials to normal heat   Meets the product standard's requirements.     10.23.2 Verification of resistance of insulating materials to abnormal heat   Meets the product standard's requirements.     10.24.2 Resistance to ultra-violet (UV) radiation   Incert effect   Meets the product standard's requirements.     10.25.2 Infigitions   Incert effect   Meets the product standard's requirements.     10.24.2 Resistance to ultra-violet (UV) radiation   Incert effect<		00		
Technical data for design verification   In   A   80     Rated operational current for specified heat dissipation   In   A   80     Heat dissipation, current dependent   Pade   W   0     Equipment heat dissipation, current dependent   Pade   W   0     Heat dissipation, current dependent   Pade   W   0     Heat dissipation, current dependent   Pade   W   0     Operating ambient temperature min.   °C   25     Operating ambient temperature max.   °C   55     IB22 Strength of materials and parts   intear, per +1 °C, results in a 0.35% reduction of current carrying capacity     IB22 Strength of materials tailing of enclosures   Meets the product standard's requirements.     10.23.1 Verification of resistance of insulating materials to normal heat   Meets the product standard's requirements.     10.23.2 Verification of resistance of insulating materials to abnormal heat   Meets the product standard's requirements.     10.24.2 Resistance to ultra-violet (UV) radiation   Incert effect   Meets the product standard's requirements.     10.25.2 Infigitions   Incert effect   Meets the product standard's requirements.     10.24.2 Resistance to ultra-violet (UV) radiation   Incert effect<	Design verification as per IFC/FN 61439			
Rated operational current for specified heat dissipation   In   A   B0     Heat dissipation probe, current-dependent   Paid   W0   0     Equipment heat dissipation, current-dependent   Paid   W0   0     Static heat dissipation, current-dependent   Paid   W0   0     Operating ambient temperature min.   °C   -25     Operating ambient temperature max.   °C   55     IECEN 61439 design verification   Integer per 4 °C, results in a 0.35% reduction of current carrying capacity     IECEN 61439 design verification   Meets the product standard's requirements.     10.2.5 trength of materials and parts   Meets the product standard's requirements.     10.2.3.1 Verification of resistance of insulating materials to normal heat and fir duo to internal electric effects   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.     10.2.3.2 Verification of ASSEMBLIES   Meets the product standard's requirements.     10.2.2.1 Inscriptions   Meets the product standard's requirements.     10.3.2.2 forceition against electric al conductors   Meets the product standard's requirements.     10.3.2.4 feestances and creepage distances   Meets the product standard's requ				
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	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 mosserved.	10.11 Short-circuit rating			Is the panel builder's responsibility. The specifications for the switchgear must be observed.

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The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## **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])				
Built-in depth	mm	75		
Release characteristic		В		
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 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		4.5		
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		