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FLHT-C80/3 - Miniature circuit breaker (MCB), 80A, 3p, C-Char, AC



248039 FLHT-C80/3

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## 248039 FLHT-C80/3

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

EL-Nummer (Norway)

1609526

Miniature circuit breaker (MCB) FLHT, 3 pole, Tripping characteristic: C, Rated current  $I_n$ : 80 A, Rated switching capacity according to IEC/EN 60947-2, Switchgear for industrial and advanced commercial applications

• [Delivery program](#)

• [Technical data](#)

• [Design verification as per IEC/EN 61439](#)

• [Technical data ETIM 7.0](#)

### Delivery program

Basic function

Miniature circuit-breakers

Number of poles

3 pole

Tripping characteristic

C

Application

Switchgear for industrial and advanced commercial applications

Rated current [ $I_n$ ]

80 A

Rated switching capacity acc. to IEC/EN 60947-2 [ $I_{cu}$ ]

20 kA

Product range

FLHT

### Technical data

Electrical

Rated switching capacity acc. to IEC/EN 60947-2 [ $I_{cu}$ ]

20 kA

### Design verification as per IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [ $I_n$ ]

80 A

Heat dissipation per pole, current-dependent [ $P_{id}$ ]  
0 W  
Equipment heat dissipation, current-dependent [ $P_{id}$ ]  
21.4 W  
Static heat dissipation, non-current-dependent [ $P_{vs}$ ]  
0 W  
Heat dissipation capacity [ $P_{diss}$ ]  
0 W  
Operating ambient temperature min.  
-25 °C  
Operating ambient temperature max.  
+55 °C  
linear, per +1 °C, results in a 0.35% reduction of current carrying capacity  
IEC/EN 61439 design verification  
10.2 Strength of materials and parts 10.2.2 Corrosion resistance  
Meets the product standard's requirements.  
10.2 Strength of materials and parts 10.2.3.1 Verification of thermal stability of enclosures  
Meets the product standard's requirements.  
10.2 Strength of materials and parts 10.2.3.2 Verification of resistance of insulating materials to normal heat  
Meets the product standard's requirements.  
10.2 Strength of materials and parts 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects  
Meets the product standard's requirements.  
10.2 Strength of materials and parts 10.2.4 Resistance to ultra-violet (UV) radiation  
Meets the product standard's requirements.  
10.2 Strength of materials and parts 10.2.5 Lifting  
Does not apply, since the entire switchgear needs to be evaluated.  
10.2 Strength of materials and parts 10.2.6 Mechanical impact  
Does not apply, since the entire switchgear needs to be evaluated.  
10.2 Strength of materials and parts 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.  
10.4 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.  
10.6 Incorporation of switching devices and components  
Does not apply, since the entire switchgear needs to be evaluated.  
10.7 Internal electrical circuits and connections  
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 Insulation properties 10.9.3 Impulse withstand voltage  
Is the panel builder's responsibility.  
10.9 Insulation properties 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.  
10.11 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, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])  
Release characteristic  
C  
Number of poles (total)  
3  
Number of protected poles

3  
Rated current  
80 A  
Rated voltage  
400 V  
Rated insulation voltage  $U_i$   
440 V  
Rated impulse withstand voltage  $U_{imp}$   
4 kV  
Rated short-circuit breaking capacity  $I_{cn}$  EN 60898 at 230 V  
0 kA  
Rated short-circuit breaking capacity  $I_{cn}$  EN 60898 at 400 V  
0 kA  
Rated short-circuit breaking capacity  $I_{cu}$  IEC 60947-2 at 230 V  
20 kA  
Rated short-circuit breaking capacity  $I_{cu}$  IEC 60947-2 at 400 V  
20 kA  
Voltage type  
AC  
Frequency  
50 - 60 Hz  
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  
75 mm  
Degree of protection (IP)  
IP20  
Ambient temperature during operating  
-25 - 55 °C  
Connectable conductor cross section multi-wired  
2.5 - 50 mm<sup>2</sup>  
Connectable conductor cross section solid-core  
2.5 - 50 mm<sup>2</sup>

## CAD data

- [Product-specific CAD data](#)  
(Web)
- [3D Preview](#)  
(Web)

## DWG files

- [DA-CD-plht\\_3p](#)  
File  
(Web)

## edz files

- [DA-CE-ETN.PLHT-C80\\_3](#)  
File  
(Web)

## Step files

- [DA-CS-plht\\_3p](#)  
File

(Web)

## Product photo



[sg42711](#)

Photo

Miniature circuit breaker (MCB)

## Instruction Leaflet

- [Add-on Residual Current Protection Unit PBHT \(IL019151ZU\)](#)

Asset

MA150501247

(PDF, 06/2020, Language independent)

## Declaration of Conformity

### EU

- [DA-DC-03\\_FLH\\_180820](#)

Asset

(PDF)

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