

# Eaton 360050

Catalog number: 360050

Eaton Moeller series HLR Solid-state relay, Hockey Puck, 1-phase, 25 A, 24 - 265 V, DC



## General specifications

Product Name	Catalog Number
Eaton Moeller series HLR solid state relay	360050
Product Height	Product Length/Depth
58.2 mm	28.8 mm
Product Weight	Product Width
.06 kg	44.8 mm
Certifications	Compliances
CE UL 508 EAC CCC	CE Marked RoHS Compliant
Model Code	EAN
HLR25/1H(DC)230V	4015081998173

[Rated operational current \(Ie\) at AC-53A](#)

5 A

[Rated operational current for specified heat dissipation \(In\)](#)

25 A

[10.11 Short-circuit rating](#)

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

[Rated operational current \(Ie\) at AC-53B](#)

0 A

[Input current](#)

< 12 mA

[Rated control supply voltage \(Us\) at AC, 50 Hz - min](#)

0 V

[10.4 Clearances and creepage distances](#)

Meets the product standard's requirements.

[10.12 Electromagnetic compatibility](#)

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

[Operating voltage - min.](#)

24 V

[10.2.5 Lifting](#)

Does not apply, since the entire switchgear needs to be evaluated.

[10.2.3.1 Verification of thermal stability of enclosures](#)

Meets the product standard's requirements.

[Ambient storage temperature - min](#)

-40 °C

[Rated control supply voltage \(Us\) at DC - min](#)

3 V

[Rated operational voltage \(Ue\) at AC - min](#)

24 V

[Number of pilot lights](#)

1

[Vibration resistance](#)

2 g/axis (2-100 Hz, IEC 60068-2-6, EN 50155, EN 61373)

[Drop-out voltage](#)[3D models](#)

[hlr25\\_50\\_1hdc.dwg](#)

[hlr25\\_50\\_1hdc.stp](#)

[User guides](#)

[IL034111ZU2021\\_09.pdf](#)

1.2 V DC

Rated control supply voltage (Us) at AC, 50 Hz - max

0 V

Frequency rating

45 Hz - 65 Hz

10.8 Connections for external conductors

Is the panel builder's responsibility.

Operating voltage - max.

265 V

Rated conditional short-circuit current, type 1, 600 Y/347 V

65 kA

Immunity to line-conducted interference

10 V/m, 0.15 - 80 MHz, PC 1 (according to IEC/EN 61000-4-6)

Contact discharge

4 kV (according to IEC/EN 61000-4-2)

Terminal capacity (stranded)

Main: 1 x 2.5-6 mm<sup>2</sup>, 2 x 2.5-6 mm<sup>2</sup>

Control: 1 x 0.5-2.5 mm<sup>2</sup>, 2 x 0.5-2.5 mm<sup>2</sup>

Rated operational power at 600 V, 60 Hz

5 HP

Rated operational current (Ie) at AC-3

0 A

Climatic proofing

95% relative humidity non-condensing at 40°C

Electrical connection type for auxiliary- and control-current circuit

Screw connection

Static heat dissipation, non-current-dependent Pvs

0 W

Rated control supply voltage (Us) at DC - max

32 V

Rated operational power at 230 V, 60 Hz

1.5 HP

10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

10.6 Incorporation of switching devices and components

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.

#### Mounting position

Mount device in specified orientation and do not obstruct the heatsink

#### Rated operational current (I<sub>e</sub>) at AC-1

0 A

#### 10.13 Mechanical function

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

#### Terminal capacity (flexible with ferrule)

Main: 1 x 1-4 mm<sup>2</sup>, 2 x 1-4 mm<sup>2</sup>

Control: 1 x 0.5-2.5 mm<sup>2</sup>, 2 x 0.5-2.5 mm<sup>2</sup>

#### 10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

#### 10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

#### 10.3 Degree of protection of assemblies

Does not apply, since the entire switchgear needs to be evaluated.

#### Heat dissipation per pole, current-dependent P<sub>vid</sub>

28 W

#### Voltage type

DC

#### Phase

1

#### Operating temperature - min

-40 °C

#### Radio interference class

Class A

#### Equipment heat dissipation, current-dependent P<sub>vid</sub>

28 W

#### Pick-up voltage

2.5 V DC

#### Air discharge

8 kV (according to IEC/EN 61000-4-2)

#### Drop-out time

< 1/2 period

#### Terminal capacity (solid)

Main: 1 x 2.5-6 mm<sup>2</sup>, 2 x 2.5-6 mm<sup>2</sup>

Control: 1 x 0.5-2.5 mm<sup>2</sup>, 2 x 0.5-2.5 mm<sup>2</sup>

#### Delay time

1/2 period

#### Rated conditional short-circuit current (I<sub>q</sub>), type 2, 380 V, 400 V, 415 V

10 kA

#### Operating temperature - max

80 °C

#### 10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

#### 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects

Meets the product standard's requirements.

#### Rated operational power at 480 V, 60 Hz

3 HP

#### Number of phases

1

#### Electromagnetic fields

10 V/m, 80 - 1000 MHz and 1.4 - 2.0 GHz, PC 1 (according to IEC/EN 61000-4-3)

10 V/m, 2.0 - 2.7 GHz, PC 1 (according to IEC/EN 61000-4-3)

#### 10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

#### Degree of protection

IP20

#### Overvoltage category

III

#### Ambient storage temperature - max

100 °C

#### Rated operational voltage (U<sub>e</sub>) at AC - max

265 V

#### Rated control supply voltage (U<sub>s</sub>) at AC, 60 Hz - min

0 V

#### Pollution degree

## 10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

### Electrical connection type of main circuit

Screw connection

## 10.10 Temperature rise

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

### Functions

Switching at zero-crossing

### Tightening torque

Main: 2.4 Nm (21.2 lb-in)

Control: 0.5 Nm (4.4 lb-in)

### Rated conditional short-circuit current ( $I_q$ ), type 2, 230 V

10 kA

### Screwdriver size

Main: Pozidriv 2

Control: Pozidriv 1

### Series

HLR

### Burst Impulse

Main: 2 kV, 5 kHz PC 1 (according to IEC/EN 61000-4-4)

Control: 1 kV, 5 kHz PC 1 (according to IEC/EN 61000-4-4)

### Type

Solid-state relay

## 10.2.2 Corrosion resistance

Meets the product standard's requirements.

## 10.2.4 Resistance to ultra-violet (UV) radiation

Please enquire

## 10.2.7 Inscriptions

Meets the product standard's requirements.

### Rated control supply voltage ( $U_s$ ) at AC, 60 Hz - max

0 V

### Rated impulse withstand voltage ( $U_{imp}$ )

6 kV (1.2/50  $\mu$ s)

### Rated operational current ( $I_e$ ) at AC-51

25 A

### Shock resistance

15/11 g/ms (according to EN 50155, EN 61373)

### Terminal capacity (solid/stranded AWG)

Main: 1 x 14-10, 2 x 14-10

Control: 1 x 18-12, 2 x 18-12

### Altitude

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