Products Se

< HLR SOLID STATE RELAYS

360049







Questions be

General specifications	>	GENERAL SPECIFICATIONS	
Features & Functions	>	PRODUCT NAME	Eaton Moeller series HLR solid state relay
General	>	CATALOG NUMBER	360049
Climatic environmental conditions	>	MODEL CODE	HLR30/3(AC)600V/S
Electromagnetic compatibility	>	EAN	4015081998166
		PRODUCT LENGTH/DEPTH	126 mm
Terminal capacities		PRODUCT HEIGHT	110 mm
Electrical rating	>	PRODUCT WIDTH	72 mm
Short-circuit rating	>	PRODUCT WEIGHT	.78 kg
Control circuit	>	COMPLIANCES	CE Marked RoHS Compliant
Motor rating	>		~
Design verification	>	CERTIFICATIONS	CE UL 508 EAC CCC

FEATURES & FUNCTIONS

FEATURES	Modular version
FUNCTIONS	Switching at zero-crossing
ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT	Screw connection
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
GENERAL	
DEGREE OF PROTECTION	IP20
FREQUENCY RATING	45 Hz - 65 Hz
MOUNTING POSITION	Mount device in specified orientation and do heatsink
NUMBER OF PHASES	3
NUMBER OF PILOT LIGHTS	1
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	2
RATED IMPULSE WITHSTAND VOLTAGE	6 kV (1.2/50 µs)

(UIMP)

SERIES	HLR
SHOCK RESISTANCE	15/11 g/ms (according to EN 50155, EN 61373
ТҮРЕ	Solid-state relay
VIBRATION RESISTANCE	2 g/axis (2-100 Hz, IEC 60068-2-6, EN 50155,
VOLTAGE TYPE	AC/DC

CLIMATIC ENVIRONMENTAL CONDITIONS

ALTITUDE	0 - 1000 m (Above 1000 m derate linearly by 1 100 m up to a maximum of 2000 m)
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
AMBIENT STORAGE TEMPERATURE - MAX	100 °C
CLIMATIC PROOFING	95% relative humidity non-condensing at 40°C
OPERATING TEMPERATURE - MIN	-40 °C
OPERATING TEMPERATURE - MAX	80 °C

ELECTROMAGNETIC COMPATIBILITY

AIR DISCHARGE	8 kV (according to IEC/EN 61000-4-2)
BURST IMPULSE	Main: 2 kV, 5 kHz PC 1 (according to IEC/EN 6 Control: 1 kV, 5 kHz PC 1 (according to IEC/EN
CONTACT DISCHARGE	4 kV (according to IEC/EN 61000-4-2)

ELECTROMAGNETIC FIELDS

10 V/m, 80 - 1000 MHz and 1.4 - 2.0 GHz, PC

IEC/EN 61000-4-3)

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

IMMUNITY TO LINE-CONDUCTED INTERFERENCE

10 V/m, 0.15 - 80 MHz, PC 1 (according to IEC

RADIO INTERFERENCE CLASS

Class A

TERMINAL CAPACITIES

TERMINAL CAPACITY (FLEXIBLE WITH

FERRULE)

Main: 1 x 2.5-16 mm² Control: 1 x 0.5-2.5 mm², 2 x 0.5-2.5 mm²

TERMINAL CAPACITY (SOLID)

Main: 1 x 2.5-25 mm²

Control: 1 x 0.5-2.5 mm², 2 x 0.5-2.5 mm²

TERMINAL CAPACITY (SOLID/STRANDED

AWG)

Main: 1 x 14-3

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

Main: 1 x 2.5-25 mm² TERMINAL CAPACITY (STRANDED)

Control: 1 x 0.5-2.5 mm², 2 x 0.5-2.5 mm²

Main: 2.5 Nm (22 lb-in) **TIGHTENING TORQUE**

Control: 0.5 Nm (4.4 lb-in)

Main: Pozidriv 2 **SCREWDRIVER SIZE**

Control: Pozidriv 1

ELECTRICAL RATING

OPERATING VOLTAGE - MAX. 660 V

42 V **OPERATING VOLTAGE - MIN.**

RATED OPERATIONAL CURRENT (IE) AT AC- $_{0\,\mathrm{A}}$

4/9

RATED OPERATIONAL CURRENT (IE) AT AC- 0 A
RATED OPERATIONAL CURRENT (IE) AT AC- 30 A
RATED OPERATIONAL CURRENT (IE) AT AC- 14 A 53A
RATED OPERATIONAL CURRENT (IE) AT AC- 0 A 53B
RATED OPERATIONAL VOLTAGE (UE) AT AC $_{\rm 42V}$ - MIN
RATED OPERATIONAL VOLTAGE (UE) AT AC $_{660\vee}$ - MAX

SHORT-CIRCUIT RATING

RATED CONDITIONAL SHORT-CIRCUIT CURRENT, TYPE 1, 600 Y/347 V	100 kA
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 230 V	100 kA
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 380 V, 400 V, 415 V	100 kA

CONTROL CIRCUIT

DELAY TIME	2 periods at 230 V AC
DROP-OUT TIME	< 40 ms
DROP-OUT VOLTAGE	5 V AC

INPUT CURRENT	18 mA at 230 V AC
PICK-UP VOLTAGE	20 V AC
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	20 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	275 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	20 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	275 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	190 V

MOTOR RATING

HORSEPOWER	5 HP (230 V), 10 HP (480 V), 15 HP (600 V)
RATED OPERATIONAL POWER AT 220/230 V, 50 HZ	3 KW
RATED OPERATIONAL POWER AT 400 V, 50 HZ	5.5 KW

DESIGN VERIFICATION

EQUIPMENT HEAT DISSIPATION, CURRENT- $_{\rm 84\,W}$ DEPENDENT PVID

HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	28 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	30 A
STATIC HEAT DISSIPATION, NON-CURRENT- DEPENDENT PVS	0 W
10.2.2 CORROSION RESISTANCE	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 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.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Please enquire
10.2.5 LIFTING	Does not apply, since the entire switchgear need evaluated.
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear need evaluated.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear need 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 need evaluated.

Does not apply, since the entire switchgear need

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.
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
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.
10.10 TEMPERATURE RISE	The panel builder is responsible for the tempe calculation. Eaton will provide heat dissipation devices.
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specific switchgear must be observed.
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifi switchgear must be observed.
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided to in the instruction leaflet (IL) is observed.

Resources >

How to buy from Eaton

Questions before you buy

Contact us via web form by clicking the link

above, or call us: +44 (0) 1753 608 700 option 2, then option 1

HLR solid state relays >	360049		