

Long lifetime, silent operation and ready-to-use: HLR Solid State Relays



Powering Business Worldwide

HLR Solid State Relays

The Eaton HLR Solid State Relays are reliable, responsive and provide high accuracy and precise switching. The 1-phase and 3-phase devices come with integrated heat sinks for optimum heat dissipation. Thanks to their compact size, they reduce the amount of space required inside the control cabinet, allowing you to save both time and money.

As the relays produce very little electrical and acoustic noise, their operation is silent, meaning they are ideally suited for noise-sensitive environments, such as offices or hospitals. Perfectly adapted for use in harsh environments, they are insensitive to environmental impacts such as dust, gas, shock and vibration.

With no moving or mechanical parts, the solid-state relays have a long service life and do not require regular maintenance. The low feed-in power also ensures that they consume very little energy.

They are typically used in applications with high and fast switching frequencies, such as temperature control for heating/cooling equipment, lighting control, pumps/compressors, material handling systems or medical applications. Solid-state relays are also frequently used in high demand in the plastics, food and packaging industries, as well as in building technology and transportation



1-phase devices



3-phase devices



Hockey puck devices

- Integrated heat sink
- 25% space savings thanks to width of only 17.8 mm
- Due to the high fuse rating, the relays with a high I^2t value (part number ending at /S), can also be used in B-/C-type circuit breakers with 16 A
- CE and UL devices
- Zero-voltage switching
- Integrated varistor for overvoltage protection
- Green LED indicator for control monitoring

- Integrated varistor for overvoltage protection
- Fully controlled 3-pole switching
- Zero-voltage switching
- AC or DC control
- CE, UL and CCC devices
- LED indicator for monitoring the display
- Integrated heat sink

- 45 mm hockey puck devices
- 1-pole
- Load current up to 125 A
- Integrated varistor
- With screw terminals
- CE, cUR, CSA and CCC devices
- LED indicator for monitoring the display
- Removable cover for the connection of cables with ring cable lugs

Rated current load	Input voltage		Output ratings	Dimensions	I ² t	Part no.	Catalog no.	
	A	VAC						VDC
1-phase, DIN rail with integrated heat sink								
15			3-32VDC	230	110 x 17.8 x 103.5	525	HLR15/1(DC)230V	360038
15			4-32VDC	600	110 x 17.8 x 103.5	525	HLR15/1(DC)600V	360040
15			4-32VDC	600	110 x 17.8 x 103.5	6600	HLR15/1(DC)600V/S	360043
25			3-32VDC	230	110 x 17.8 x 103.5	1800	HLR25/1(DC)230V	360039
25			4-32VDC	600	110 x 17.8 x 103.5	1800	HLR25/1(DC)600V	360041
25	20-275VAC		24-190VDC	600	110 x 17.8 x 103.5	1800	HLR25/1(AC)600V	360045
40			4-32VDC	600	110 x 35.6 x 141	18000	HLR40/1(DC)600V/S	360042
3-phase, DIN rail with integrated heat sink								
20			4-32VDC	600	110 x 54 x 103	1800	HLR20/3(DC)600V	360046
20	20-275VAC		24-190VDC	600	110 x 54 x 103	1800	HLR20/3(AC)600V	360047
30			4-32VDC	600	110 x 72 x 126	6600	HLR30/3(DC)600V/S	360048
30	20-275VAC		24-190VDC	600	110 x 72 x 126	6600	HLR30/3(AC)600V/S	360049
1-phase, hockey puck								
25			3-32VDC	230	58.2 x 44.8 x 28.8	525	HLR25/1H(DC)230V	360050
25			4-32VDC	600	58.2 x 44.8 x 28.8	525	HLR25/1H(DC)600V	360051
50			3-32VDC	230	58.2 x 44.8 x 28.8	1800	HLR50/1H(DC)230V	360052
50			4-32VDC	600	58.2 x 44.8 x 28.8	1800	HLR50/1H(DC)600V	360053
50			4-32VDC	600	58.2 x 44.8 x 28.8	3200	HLR50/1H(DC)600V/S	360054
100			4-32VDC	600	58.2 x 44.8 x 28.8	6600	HLR100/1H(DC)600V/S	360055
125			4-32VDC	600	58.2 x 44.8 x 28.8	18000	HLR125/1H(DC)600V/S	360056



Eaton is an intelligent power management company dedicated to improving the quality of life and protecting the environment for people everywhere. We are guided by our commitment to do business right, to operate sustainably and to help our customers manage power - today and well into the future. By capitalizing on the global growth trends of electrification and digitalization, we're accelerating the planet's transition to renewable energy, helping to solve the world's most urgent power management challenges, and doing what's best for our stakeholders and all of society. Founded in 1911, Eaton has been listed on the NYSE for nearly a century. We reported revenues of \$19.6 billion in 2021 and serve customers in more than 170 countries.

For more information, visit **Eaton.com**.

The products, information and prices contained in this document are subject to change. We also reserve the right to correct any errors or omissions. Only the order confirmation and the technical documentation provided by Eaton are binding. Images and illustrations are indicative only and do not guarantee any particular design or functionality. Their use in any form must be approved in advance by Eaton. The same applies to trademarks (especially to Eaton, Moeller, Cutler-Hammer, Cooper and Bussmann). Eaton's terms of sale, as published on Eaton's websites and included with order confirmations received from Eaton, apply.

Eaton Industries GmbH
Hein-Moeller-Str. 7-11
D-53115 Bonn / Germany

© 2021 by Eaton Corporation
All Rights Reserved
Publication no.: FL049002EN
November 2022



Eaton is a registered trademark of Eaton Corporation.

All other trademarks are property of their respective owners.