



## POWERSWITCH

**DOLD**

### Solid-state relay / contactor PH 9270 - Load monitoring with true added value

Industrial companies are continuously faced with new challenges in their everyday operations. Manufacturing capacities need to be ever more flexible and more adaptive to meet changing needs. Conventional switching devices often have a hard time keeping up. The smart **solid-state relay PH 9270** from the **POWERSWITCH** series by DOLD is the ideal solution. Whether you need current monitoring, load control, or analog activation, custom requirements can be optimally fulfilled. Once it is installed, the device remains active almost endlessly. Regularly exchanging devices – which costs both time and money – can be eliminated in the future. The PH 9270 stands out for its wear-free and low-noise switching operation and it is able to safely and reliably stand up to repeated loads and high temperatures. The device is manufactured ready-to-use, allowing it to be installed quickly and easily; it can also be plugged and connected directly into your machines.

The solid-state relay PH 9270 has two thyristors connected in reverse parallel, allowing it to function as a zero voltage switch. The DCB technology (direct copper bonding process) provides very good thermal transfer, making very high load currents possible. In addition, the device can be installed directly on existing cooling surfaces. It is available as a solid-state contactor with an appropriately dimensioned heat sink and can easily be snapped onto a top hat rail. A colorful LED display signals the status of the control input.

#### Your advantages

- ▶ Ready to use immediately – with an optimally designed heat sink
- ▶ Almost unlimited life span for high system availability
- ▶ Noiseless and wear-free switching – even at high switching frequencies
- ▶ LED and signal output for easy diagnosis
- ▶ Flexible wiring and easy commissioning
- ▶ Increased security – prevent system fires
- ▶ Can also be used in extreme environmental conditions (dust-proof, vibration and shock resistant)



**Our experience. Your safety.**

# Solid-state relay / contactor PH 9270

## Technical features

- ▶ AC solid-state relay / contactor
- ▶ Integrated load monitoring
- ▶ Adjustable load current limit
- ▶ In accordance with IEC/EN 60947-4-3
- ▶ 2 thyristors in reverse parallel
- ▶ DCB technology (direct copper bonding process) for very good thermal transfer properties
- ▶ Load current up to 40 A, AC-51
- ▶ 2 color LED status display
- ▶ IP 20 touch guard
- ▶ Available with heat sink, snaps onto top hat rail
- ▶ Zero-voltage switching
- ▶ Available with either working current or closed current principle
- ▶ PLC compatible alarm output (PNP; NPN also available on request)
- ▶ Width 45 mm



Solid-state contactor PH 9270

## Order information

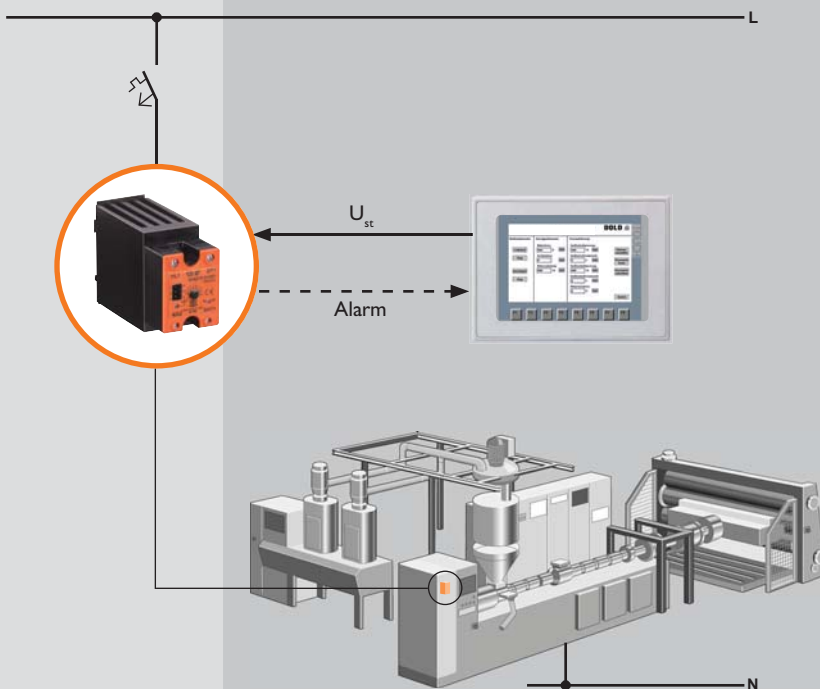
Standard type: PH 9270.91 AC 200 ... 480 V 40 A DC 20 ... 32 V  
Item number: 0060425

## Areas of application

- ▶ Rubber and plastics industry
- ▶ Food and drink industry
- ▶ Heating cooling and air conditioning technology
- ▶ Packaging industry
- ▶ Semiconductor industry

## Examples of application

Electrical heaters in injection molding machines are switched off by upstream mechanical contactors during malfunctions, when a solid-state contactor needs to short circuit and is no longer controllable. During malfunctions, a signal output from the PH 9270 gives an upstream controller the command to switch off. This method is faster than a temperature evaluation and can prevent fires.



## Further information

PH 9270

Start

[www.dold.com](http://www.dold.com)

Do you need a **solid-state relay** without **additional load monitoring**?

**PK 9260**

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Life  $\rightarrow \infty$

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**DOLD**

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