



## MINISTART

### Softstarter PF 9029

**DOLD** 

The new **softstarter PF 9029** from the **MINISTART** family by DOLD is a robust electronic control device with integrated monitoring function for soft starting for motors. With a width of 67.5 mm, the PF 9029 offers soft-starting, motor protection, voltage, and phase sequence monitoring in just one device to allow you to operate the compressor safely.

The compact, 3-phase controlled softstarter PF 9029 facilitates a jolt-free, low-noise, and soft start (start-up time < 200 ms), with minimal start-up current. Current spikes and torque stops during shifting are reduced. This increases the service lives of motors and mechanical drive components.

Monitoring the rotating field (clockwise) prevents motors from starting up in the wrong direction of rotation. The integrated low and overvoltage monitoring and the motor protection function in accordance with class 10 protect the motor from overload. The most important functions of the PF 9029 include jam protection in bypass mode, motor outputs up to 18,5 kW, recognition of absence of load, and integrated temperature monitoring for the power semiconductor. The softstarter PF 9029 provides operators an intelligent, user-friendly soft starter with comprehensive monitoring and protective functions.

#### Advantages and customer benefit

- ▶ Space-saving installation in switch cabinet with just 67.5 mm construction width
- ▶ Improved reduction of start-up current
- ▶ Low level of self-heating
- ▶ Just 1 device for soft-start, motor protection, voltage and phase sequence monitoring
- ▶ Jolt-free start-up and minimized start-up current
- ▶ Increases the life span of the compressor
- ▶ No network filter required due to low interference
- ▶ Suitable for short start-up times < 200 ms
- ▶ Fast, easy installation

**Our experience. Your safety.**

# Softstarter PF 9029

## Technical features

- ▶ In accordance with IEC/EN 60 947-4-2
- ▶ For motor outputs up to 18,5 kW
- ▶ 3-phase controlled with integrated bypass relay
- ▶ Phase sequence monitoring
- ▶ Low voltage monitoring
- ▶ Overvoltage monitoring
- ▶ Jam protection in bypass mode
- ▶ Integrated class 10 motor protection in accordance with IEC/EN 60947-4-2
- ▶ Start-up current limitation
- ▶ Thyristor monitoring
- ▶ Recognition of absence of load
- ▶ Automatic frequency recognition for voltage load
- ▶ Temperature monitoring of power semiconductors



Softstarter  
PF 9029

## Order information

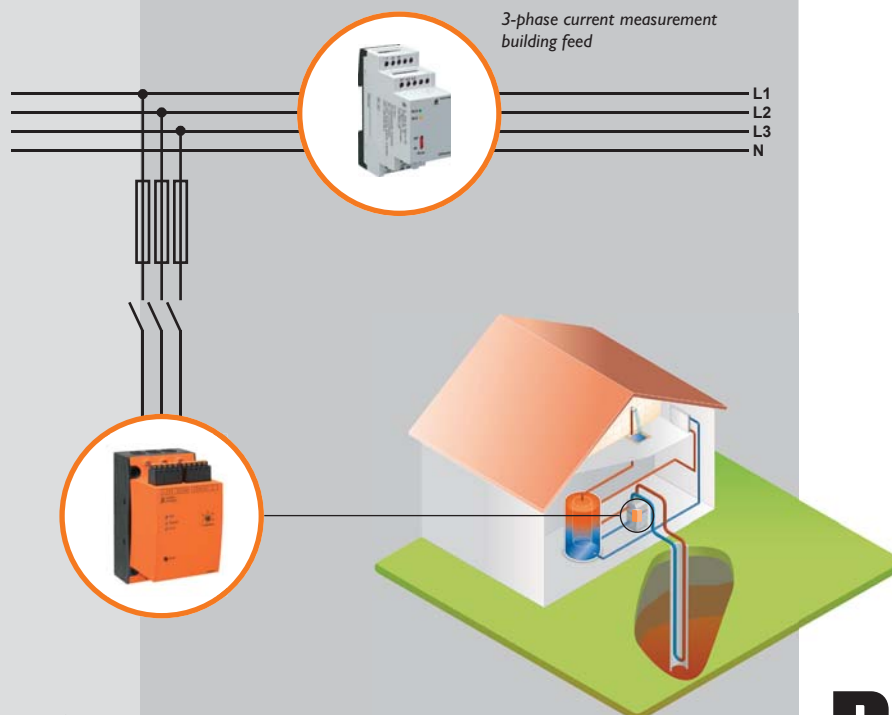
Standard type: PF 9029.11 3AC400V 50/60Hz  
UH=AC230V 5-25A  
Item number: 0065815

## Fields of application

- ▶ Conveyor belts
- ▶ Heat pumps
- ▶ Air conditioning systems, compressors

## Application

Controlling and monitoring the compressors in heat pumps in buildings with three-phase current supply. The integrated low voltage monitor protects the motor from overload, as does the motor protection function. In apartment buildings with a weak network connection (<63 A), the load status must be monitored using three-phase current measurement. The heat pump can only turn on when the load condition of the network allows.



Soft  
Start



Motor  
protection

## Further information

PF 9029

Start

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

**DOLD**

E. Dold & Söhne GmbH & Co. KG  
Bregstraße 18 • D-78120 Furtwangen  
T +49 7723 654-0 • F +49 7723 654-356  
dold-relays@dold.com • www.dold.com