



## MINISTART

### Softstarter PF 9015 - IE3 ready

The new **softstarter PF 9015** of the **MINISTART** family from DOLD is a robust electronic control unit for the soft start of motors up to 40 A with integrated monitoring functions and a width of only 67.5 mm. To operate the motor reliably, the PF 9015 offers soft start, motor protection, voltage and phase sequence monitoring in just one device.

The compact 3-phase controlled softstarter enables a smooth and gentle start (start-up time up to 20 s) due to a reduced starting current. The current peaks and torque shocks that interfere with switching are reduced. This increases the service life of the motors and mechanical drive components.

Monitoring the rotating field (clockwise) prevents motors from starting up in the wrong direction of rotation. The integrated undervoltage and overvoltage monitoring as well as the motor protection function according to Class 10 protect the motor against overload. The most important functions of the device include blockage protection in bypass mode, detection of missing load and integrated temperature monitoring of the power semiconductors. With the softstarter PF 9015, the user has a smart, user-friendly softstarter with extensive monitoring and protection functions.

#### Advantages and customer benefits

- ▶ Space-saving switch cabinet installation with a width of only 67.5 mm
- ▶ Improved starting current reduction
- ▶ Less self-heating
- ▶ Only 1 device for soft start, motor protection, voltage and phase sequence monitoring
- ▶ Gentle starting and reduced starting current
- ▶ Increases the service life of the drives
- ▶ No mains filter required due to low interference radiation
- ▶ Soft start / soft stop time 1 ... 20 s
- ▶ Low installation costs

**DOLD** 

**Our experience. Your safety.**

# Softstarter PF 9015

## Technical features

- ▶ According to IEC/EN 60 947-4-2
- ▶ Suitable for IE3 motors
- ▶ 3-phase controlled with integrated bypass relay
- ▶ Phase sequence monitoring
- ▶ Blocking protection in bypass mode
- ▶ Integrated motor protection according to class 10 of IEC/EN 60947-4-2
- ▶ Starting current limitation
- ▶ Thyristor monitoring
- ▶ Detection of missing load
- ▶ Automatic frequency recognition of the load voltage
- ▶ Temperature monitoring of power semiconductors
- ▶ Kickstart function
- ▶ Width 67.5 mm



Softstarter  
PF 9015

## Order information

Standard type:  
PF 9015.11 3 AC 200 ... 480 V 50 Hz UH 230 V 20 A  
Item number: 0068478

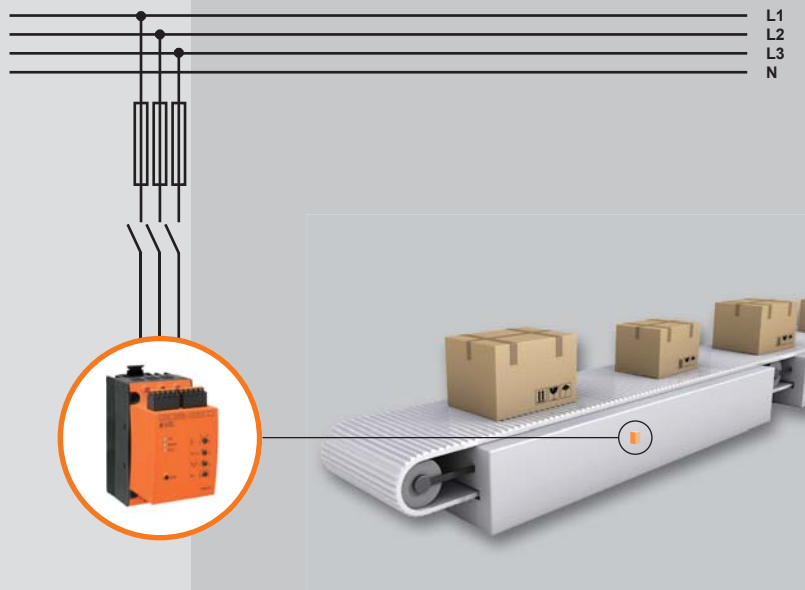
Further variants (up to 40 A) on request

## Fields of application

- ▶ Conveyor belts
- ▶ Pumps
- ▶ Air conditioners, compressors

## Applications

The softstarter PF 9015 is suitable for applications requiring reduced starting torques. For example, for driving conveyor belts, compressors, grinding machines and many more. The device ensures a smooth, gentle start-up so that drive elements are not damaged. After start-up, the power semiconductors are bypassed by relays to minimize power dissipation in the device.



Soft  
Start



Motor  
protection

IE3  
ready

## Further information

PF 9015

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