



## MINISTART

### Intelligent motorstarter with motor protection function

**DOLD** 

Sophisticated drive tasks require powerful and flexible device solutions. The **intelligent motorstarter UG 9256** of the **MINISTART** series from DOLD with load monitoring for motors up to 4 kW combines up to six functions in a space saving compact enclosure with only 22,5 mm width. Besides the reversal function our intelligent motorstarter also offers a soft start / soft stop function, a current monitoring as well as a motor protection function and a galvanic separation by an all pole disconnection when motor is switched off.

Due to the integrated motor protection function separate motor protection switches are not necessary. A power protection switch takes over the wire- and short circuit protection of the whole system. An internal relay provides galvanic isolation of the power outputs. While the semiconductor control provides a soft motor start, the direction reversal takes place through relay switching. The hybrid relay thus combines the advantages of rugged relay technology with non-wearing semiconductor technology. The user benefits from a significantly longer device service life and improved reliability. The integrated current monitoring protection enhances the system availability even further.

#### Your advantages

- ▶ Up to six functions in one device:  
reversing clockwise / anticlockwise, soft start, current monitoring or motor protection, galvanic separation, soft stop
- ▶ Space saving in switching cabinet due to a width of only 22,5 mm
- ▶ Simple and time-saving commissioning as well as user-friendly operation, optionally with motor protection
- ▶ Robust power semiconductors up to 1500V
- ▶ Increased system availability through over current protection
- ▶ Higher life time by hybrid building
- ▶ Energy saving by fast over current protection

**Our experience. Your safety.**

# Intelligent motorstarter UG 9256

## Technical features

- ▶ For the reversal of 3-phase motors up to 3 AC 480V / 9 A, corresponds to 4 kW at 400V
- ▶ Currentless reversal with relay, softstart with thyristors
- ▶ 2-phase softstart
- ▶ Integrated short-circuiting contacts
- ▶ 3 potentiometers to set the starting torque, softstart time and overcurrent limit
- ▶ 4 LEDs as status indicator
- ▶ Reset button internal and external

### Device measurements in mm (W x H x D)

22.5 x 105 x 120.3

## Ordering information

Standard type:  
UG 9256.11 3 AC 400V 4 kW 50/60 Hz 9.0 A  
Item number 0063850

## Applications

- ▶ Reversing drives for door and gate controls, bridge drives and lifting gear with current monitoring
  - ▶ Conveyor equipment with current monitoring
  - ▶ Positioning drives in process engineering (chemistry and petrochemicals) with current monitoring
  - ▶ Point drives
  - ▶ Helms
- ... and for all applications with sophisticated motor control processes. **Feel free to contact us.**

## Functions



### "6 in 1"

#### Reversals

Right-handed rotation and left-handed rotation can be selected via two control inputs. The rotational direction reversal takes place without wear through semiconductor elements and preservation of the motor through integrated softstart function.



#### Softstart / soft running-down

The drive can start and run down without jerking and the drive elements are not damaged, i.e. maximum preservation of mains, motor and machine. Starting time and running down torque can be adjusted via potentiometers.



#### Current monitoring (optional)

To protect against stalled motor protection the motor current is monitored in T3. The switching threshold can be adjusted via potentiometer. This provides permanent protection of motor and machine against overload.



#### Galvanic isolation

In the static or fault state of the motor the motor terminals are separated from the mains Voltage via a 3-pole guided relay.



#### Motor protection (optional)

Electronical analogue of the bimetal function for the motor protection. Comfortable adjustment on the front of the device via a potentiometer automatic and distant reset is possible.

## Further information



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

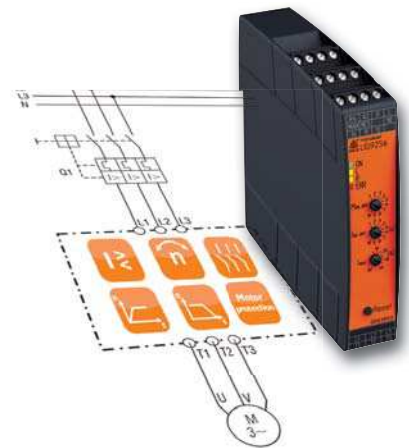


Intelligent motorstarter  
UG 9256



## Advantages of semiconductor technology

- ▶ Non-wearing switching
- ▶ Long service life
- ▶ High switching frequencies
- ▶ Small footprint
- ▶ Stable and short response times
- ▶ Suitable for rugged environments



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