



MINISTART

Smart motorstarter UG 9256/804 - Automatic correction of the direction of rotation

The **smart motorstarter UG 9256/804** of the **MINISTART** series is designed for reliable starting of asynchronous motors and ensures that a clockwise rotating field is always applied to the motor when connected to the mains and that the motor runs correctly right away. The device automatically corrects the rotating field if the mains connection is incorrect, thereby preventing the motor from running backwards and being damaged.

The only 22.5 mm wide phase inverter has UL approval and offers automatic phase correction, an integrated motor protection function and phase failure detection to protect the motor - optionally also with galvanic mains isolation via forcibly guided contacts.

The UG 9256/804 is suitable for applications in which devices are connected to the mains at different locations, in particular for mobile machines such as pumps, blowers, grinding machines and compressors as well as for use by the fire brigade or the Federal Agency for Technical Relief. Whether retrofitting or original equipment, the phase inverter can be used in a space-saving manner and always ensures the correct direction of rotation. Troubleshooting or rewiring is therefore no longer necessary.

Advantages and customer benefits

- ▶ Up to four functions in one UL-approved device:
Ensures clockwise rotating field, phase failure detection, motor protection and galvanic mains isolation through forcibly guided contacts
- ▶ Automatic correction of the rotary field in case of incorrect connection
- ▶ No troubleshooting in the wiring
- ▶ No phase inverter plug required
- ▶ Damage prevention through correct direction of rotation
- ▶ Considerable space saving due to only 22.5 mm width
- ▶ Simple device adjustment via rotary switch
- ▶ Suitable for IE1, IE2 and IE3 motors
- ▶ Increased service life due to hybrid design
- ▶ Integrated protection against overtemperature of the motor

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Smart motorstarter UG 9256/804

Technical features

- ▶ According to UL 60 947-4-2
- ▶ For turning the rotating field
- ▶ For 3-phase motors with rated motor currents of I_e 1.5 A ... 9,0 A
- ▶ Robust power semiconductors up to 1500 V
- ▶ 1 potentiometer for setting rated motor current
- ▶ 3 LEDs for status indication
- ▶ Current free turning with relays, switching with thyristors
- ▶ Galvanically isolated 24V input for clockwise rotation
- ▶ Reset button on front panel
- ▶ Connection option for external reset button
- ▶ Relay alarm output for operational readiness
- ▶ Galvanic isolation of control and main circuit
- ▶ Galvanic isolation of motor connection terminal and mains voltage in idle or fault state (UG 9256/807)
- ▶ Width 22,5 mm

Order information

Standard type:
UG 9256.11/804/61 3 AC 200 ... 480 V 9,0 A
Item number: 0066450

Standard type with mains cut-off relay:
UG 9256.11/807/61 3 AC 200 ... 480 V 9,0 A
Item number: 0067133

Fields of application

- ▶ Mobile pumps, grinding machines, compressors etc.
- ▶ Blowers, fans and vacuum cleaners
- ▶ Conveying equipment and actuators with preferred direction of rotation

Functions



Automatic rotating field correction (clockwise rotation)

The device ensures that there is always a clockwise rotating field on the motor irrespective of the input rotating field and that the motor runs correctly at the first attempt. The reversal of the direction of rotation is wear-free.



Phase failure detection

In order not to load the motor with asymmetrical currents, it is checked at motor start whether phases L1, L2, L3 are present.



Motor protection

Electronic replica of the bimetal function for motor protection. Convenient setting on the front panel with rotary switch. Automatic and remote reset possible.



Galvanic mains isolation (optional with /807)

In the idle or fault state of the motor, the motor connection terminals are disconnected from the mains voltage via a forcibly guided relay (contact spacing at least 0.5 mm).



IE3 ready

Gentle operation of three-phase motors in efficiency classes IE1, IE2 and IE3.

Further information

Start

www.dold.com



Smart motorstarter
UG 9256/804



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