Your Advantages

- Protection of the drive unit
- Space and cost saving because of integrated motor protection:
  - motor overload, phase failure and exceed acceleration time
- Integrated bridging contactor
- Limiting of starting current prevents against mains and equipment overload
- Productivity by shortened starting times on heavy duty stating and high permissible switching frequency
- Individual configuration for every application
- Easy operation
- Comprehensive diagnostic via LED-flashing codes possible

Features

- 2-phase softstarter for asynchronous motors up to 110 kW (400 V)
- Integrated current control time
- Integrated motor protector
- Integrated bridging contactor
- Volt free control input for softstart / -stop
- Connection for motor thermistor
- With two monitoring outputs, one is programmable
- DIN rail mounting with devices up to 30 kW
- Communication interfaces for Profibus, DeviceNet, Modbus and pump controls (optional)
- Start and stop via separate push buttons or control switch
- Motor voltage range 3 AC 200 ... 440V or 3 AC 200 ... 575V

Adjustable functions:

- Starting time monitoring
- Nominal motor current
- Current ramp
- Current limit
- Softstopp - ramp time
- Motor protection class
- Phase sequence
- Programmable relay output for indicators

Approval and Marking

- Escalator
- Pumps
- Fans and ventilation systems
- Conveyor systems and elevators
- Compressors
- Mills, crushers, presses
- ... and for all applications with ambitious start-up and deceleration

All technical data in this list relate to the state at the moment of edition. We reserve the right for technical improvements and changes at any time.
### Technical Data

**Nominal voltage:**
- 3 AC 200 ... 440 V (+10% / -15%)
- 3 AC 200 ... 575 V (+10% / -15%)

**Nominal frequency:** (at start):
- 45 ... 66 Hz

**Rated current IN (A):**
- 18
- 34
- 42
- 48
- 60
- 75
- 85
- 100
- 140
- 170
- 200

**Motor power at 400 V (kW):**
- 7.5
- 15
- 18.5
- 22
- 30
- 37
- 45
- 55
- 75
- 90
- 110

**Stromrampen:**
- 2 s, 5 s, 15 s with 150% IN
- 200% IN

**Stromgrenze:**
- 250%, 275%, 300%, 325%, 350%, 375%, 400%, 425%, 450% IN

**Motor protection class:** adjustable

**Deceleration time:**
- 2 s ... 20 s

**Operating frequency**
- 4 x Ie and 6 s: AC 53b 10/h
- AC 53b 6/h

**Weight (kg):**
- 2.4
- 4.3
- 6.8

### Auxiliary Voltage (A1, A2, A3) optionally:
- AC 380 to 440 V (+10% / -15%)
- AC 110 to 240V (+10% / -15%)
- or AC/DC 24 V (±20%)

**Current consumption (at operation):**
- < 100 mA

**Current consumption (at starting):**
- at auxiliary voltage AC 110...440 V: 10 A for 10 ms
- at auxiliary voltage AC/DC 24 V: 2 A for 10 ms

### Inputs
**Start (terminal 01):**
- NO contact: 150 kΩ at AC 300 V and 5.6 kΩ at DC 24 V

**Stop (terminal 02):**
- NC contact: 150 kΩ at AC 300 V and 5.6 kΩ at DC 24 V

### Outputs
**Main contactor (terminals 13, 14):**
- NO contact: 6 A, DC 30 V resistive / 2 A, AC 400 V, AC11
- programmable relay (terminal 23, 24): 6 A, DC 30 V resistive / 2 A, AC 400 V, AC11

### General Data
**Degree of protection**
- at 7.5 ... 55 kW: IP 20
- at 75 ... 110 kW: IP 00

**Temperature range**
- Operation: -10 °C to + 60 °C
- Storage: -25 °C + 60 °C

**Humidity:**
- 5% ... 95% relative humidity

**Rated voltage of insulation:**
- 600 V

**Pollution degree:**
- 3

**Vibration resistance:**
- Test according to IEC 60068
- 13.2 Hz ... 200 Hz: ± 1 mm Amplitude
- ± 0.7 g

**EMC**
- Electrostatic discharge (ESD): 4 kV (contacts)
- 8 kV (air)
- Conducted radio frequency emission: 0.15 MHz to 1000 MHz: 140 dB (μV)

**Surge voltage**
- between wires for power supply: 1 kV
- between wire and ground: 2 kV

**Fast transients:**
- 5/50 μs

**Voltage dip and short time interruption:**
- 100 ms (at 40% nominal voltage)

**Harmonics and distortion:**
- IEC 61000-2-4 (class 3), IEC/EN61800-3

**Dimensions**
- Width x height x depth:
  - 7.5 / 15 / 18.5 / 22 / 30 kW: 98 x 203 x 165 mm
  - 37 / 45 / 55 kW: 145 x 215 x 193 mm
  - 75 / 90 / 110 kW: 202 x 240 x 214 mm

**Standard type**
- GI 9014
- 3 AC 200 ... 440 V
- 45 ... 66 Hz
- 7.5 kW

**Ordering Example**
- GI 9014
- 3 AC 200 ... 440 V
- 45/66 Hz
- 7.5 kW
- 3 AC 380 bis 440 V

**Accessories**
- GW 5310: Remote control
- GW 5311: Interface for remote control
- GW 5312: DeviceNet-Module
- GW 5313: Modbus-Module
- GW 5314: Proflbus-Module
- GW 5316: Finger guard kit and touch protection
Connection Examples

2-wire function

3-wire function

motor - PTC

auxiliary voltage

main contact

prog. relays

M10925

A1(+)A3 B5

AC 380-440V
AC 110-240V
AC/DC 24V

motor-PTC

110-240VAC
24VAC/24VDC

380-440VAC

ON/STOP

ON/STOP

STOP ON

STOP ON

2-wire function

3-wire function

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