

SDO 05-8-45



Article

Item no.	Description
197627	SDO 05-8-45 Set for sliding gates up to 1,100 kg: 400 V AC motor, 80 Nm, 18 cm/s, spur gear M6-13Z, CS 320 control unit with LCD in steel housing

Scope of delivery

- gear motor SDO 05-8-45 E 400 V/3PH (AWG)
- Spur gear Module 6 with 13 teeth
- CS 320 400 V/3PH controller in CS large housing with LCD
- Main switch 400 V/16 A (4-pole)
- All components already mounted in steel housing with floor bracket
- Mounting material

Features

SDO 05-8-45

Features

- Very robust sliding gate operator for commercial use
- Spring assisted motor mount for shock absorption
- Steel spur gear module 6 (module 4 can also be used)
- Optional stainless steel housing with height-adjustable operator bracket for adjusting the spur gear position
- For temperature ranges below -20 °C there is suitable oil and electric heating on request

CS 320 2,2 kW

Features functions

- 4 programmable relay outputs with 44 functions
- 2 programmable inputs with 27 functions
- Changing the direction of rotation via circuit board push button/display
- Intermediate position programmable (only with AWG)
- Adjustable power limitation in OPEN direction (only with AWG)
- Rotation direction monitoring and detection (only with AWG)
- Integrated gate run counter
- Programmable maintenance alarm (PIN code protected)
- Integrated error memory (readout of all error messages indicating frequency and cycle of last occurrence) only with LCD monitor

Features end position adjustment

- Via mechanical limit switches (MEC) and/or via absolute encoders (AWG)
- Setting via circuit board push button or plug-in LCD monitor

Features operation

- Circuit board push buttons and LEDs for status indication (standard)
- Pluggable LC display with plain text display
- 3-button navigation/status and diagnostic messages

Features structure and connection

- Switchable transformer from 230 V/1~/3~ to 400 V/3~
- Short-circuit proof extra-low voltage
- Illuminated cover keypad (night illumination)
- Housing protection for printed circuit board
- Adjustable, preassembled wall brackets
- Connection for elements of the safety circuit
- Connection for closing edge protection (opto, 8.2 kOhm, pressure wave bar or leading light barrier) in CLOSE direction
- Connection for closing edge protection (8.2 kOhm and opto) in OPEN direction
- Connection for 2 light barriers (2-wire, relay, NPN, PNP) with/without testing
- Connection for wicket door and slack rope switch PL c cat. 2 (8.2 kOhm) with testing according to EN 12453:2017
- Connection for 2 light grid systems with/without testing
- Connection for radar presence detector
- Interface for connecting a frequency converter
- Interface for connecting expansion modules
- Slots for radio module and weekly timer
- Slot for 2-channel radio transmission system for wireless signal transmission of closing edge system and/or safety circuit
- Control of the magnetic brake via relay output
- For operators with externally switched brake, a brake monitoring module is additionally installed (BWM1)
- Supply for external devices (24 V-DC/500 mA and 230 V-AC/1 A)

Features Optional

- LCD monitor with plain text display
- MS-Bus extension module two-way traffic control
- MS-Bus extension module pull-in safety device
- Integrated main switch
- Customized cover lamination
- Control in steel cabinet
- A second CS 320 can be coupled via MS-BUS in DUO function

Use

SR M6 - 13 Z

- For SDO with 25.4 mm shaft

Technical data

SDO 05-8-45

- Safety catch integrated: No
- Brake control: Internally controlled
- Brake type: Gr. 1/1 Nm
- Emergency operation: Emergency release (E)
- End position system: Absolute encoder
- Overload protection: Thermal protection 140 °C
- Continuous sound pressure level (max.) [dB(A)]: 70
- Connection type: Conventional
- Protection class: IP54
- Weight of gate leaf (max.) [kg]: 1,100
- Operation with CS 320 FU (frequency converter 230 V/1~): 0,75 kW
- Operation with CS 320 FU (frequency converter 400 V/3~): 0,75 kW
- Temperature (min.) [°C]: -20
- Temperature (max.) [°C]: 60
- Temperature (min./max.) [°C]: -20/60
- Temperature (min.) [°F]: -4 °F
- Temperature (max.) [°F]: 140 °F
- Output torque [Nm]: 80
- Output speed [1/min]: 45
- Output revolutions (max.)^{**}: 130
- Cycles per hour (max.)^{*}: 10
- Motor power [kW]: 0.55

- Running speed (max.) [cm/s]: 18
- Opening width (max.) [m]: 18
- Operating voltage [V]: 230 V/1~ 230 V/3~ 400 V/3~
- Operating voltage type: Three-phase current
- Nominal frequency [Hz]: 50
- On-site fuse protection (mains operation 230 V/3~) [A]: 16
- On-site fuse protection (mains operation 400 V/3~) [A]: 16
- On-site fuse protection (frequency converter operation 230V/1~) [A]: 16
- On-site fuse protection (FI operation 400V/3~) [A]: 16
- Power factor cos phi: 0.69
- Rated current in delta connection [A]: 3.20
- Rated current in star connection [A]: 1.90
- Dimension A [mm]: 252
- Dimension A1 [mm]: 62
- Dimension B [mm]: 212
- Dimension C [mm]: 374
- Dimension C1 [mm]: 67
- Weight [kg]: 15

CS 320 2,2 kW

- Housing type: CS Standard
- Pushbutton in the control cover: Electronic 3-series pushbutton CS
- Function switch in the control cover: Without function switch
- Emergency stop in the control cover: Without emergency stop
- Power plug: CEE plug 5-poles. red
- Display type: LCD
- Protection class: IP65
- Temperature (min.) [°C]: -10
- Temperature (max.) [°C]: 45
- Temperature (min./max.) [°C]: -10/45
- Operating mode (control): Automatic
- On-site supply: 400 V/3~/50 Hz
- Control voltage [V]: 24 V-DC
- On-site fuse protection (mains operation 230 V /1~) [A]: 10
- Switching current (max.) [A]: 8
- Load capacity Power (max.) [kW]: 2.2
- Width [mm]: 215
- Height [mm]: 275
- Depth [mm]: 190

SD005 Steel housing

- Material: Steel (galvanized) Aluminum
- Color: RAL 7047

- Width [mm]: 404
- Height [mm]: 498
- Depth [mm]: 329

SR M6 – 13 Z

- Modul: 6
- Number of teeth: 13
- Material: Steel (galvanized)
- Installation area: Operator system
- Dimension A [mm]: 18.85
- Dimension B [mm]: 78
- Dimension C [mm]: 90
- Dimension D [mm]: 20
- Dimension G [mm]: 25.4
- Width [mm]: 20

Accessories

Item no.	Description
99096	Special 475 1.13 m rack, module 6, made of steel, to fasten in place
121276	Special 441 2 m gear rack module 4 made of plastic in aluminum profile with cable duct. Suitable for a maximum door weight of up to 800 kg
121277	Special 441 4 m gear rack module 4 made of plastic in aluminum profile with cable duct. Suitable for a maximum door weight of up to 800 kg
144344	SZ 25.4/24/M4 – SDO 05 (without housing) Spigot 25.4/24/module 4 for SDO 05 without stainless steel housing
149637	SZ 25.4/24/M4 – SDO 05 (with housing) Spigot 25.4/24/module 4 for SDO 05 with stainless steel housing
150915	SZ 25.4/24/M6 – SDO 05 (with housing) Spigot 25.4/24/module 6 for SDO 05 with stainless steel housing
151223	SZ 25.4/35/M6 – SDO 05 (with housing) Spigot 25.4/35/module 6 for SDO 05 with stainless steel housing
167290	SR M4 – 15 Z Spur gear module 4 with 15 teeth and 24 mm bore
118190	SR M4 – 20 Z Spur gear module 4 with 20 teeth and 24 mm bore
144425	SR M4 – 25 Z Spur gear module 4 with 25 teeth and 24 mm bore
99457	SR M4 – 20 Z Spur gear module 4 with 20 teeth and 25.4 mm bore
178073	SR M6 – 12 Z Spur gear module 6 with 12 teeth and 24 mm bore
151331	SR M6 – 20 Z Spur gear module 6 with 20 teeth and 24 mm bore
98088	M4 rack 1 m rack, module 4, made of steel, bolt attachment. Suitable for a maximum door weight of up to 2,200 kg
121278	Special 443 2 m toothed rack module 6 made of plastic in aluminum profile with cable duct. Suitable up to 800 kg maximum gate weight
121279	Special 443 4 m toothed rack module 6 made of plastic in aluminum profile with cable duct. Suitable up to 800 kg maximum gate weight
99096	Special 475 1.13 m rack, module 6, made of steel, to fasten in place

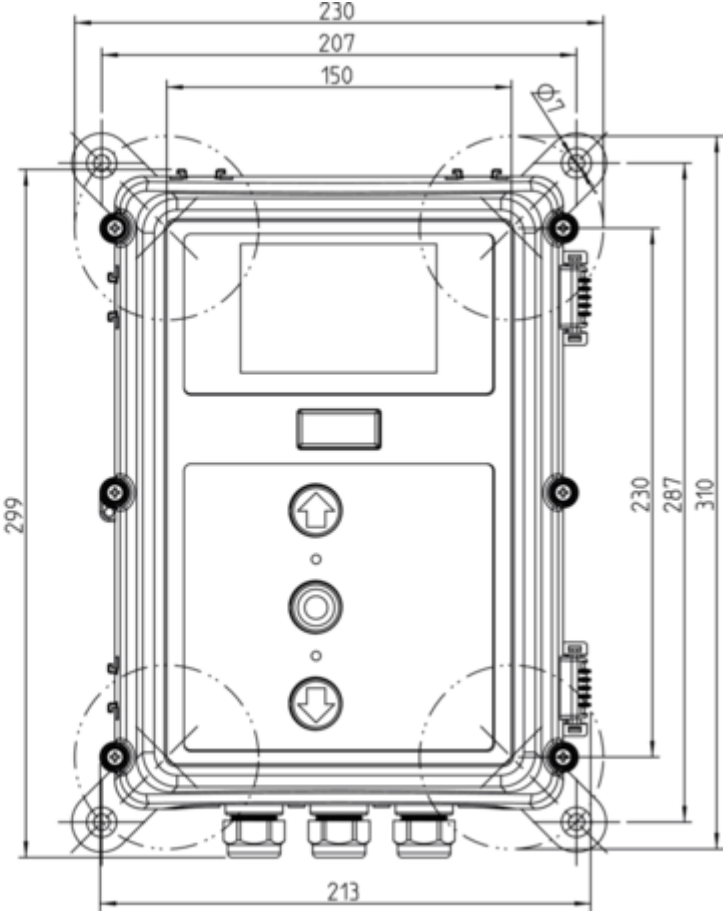
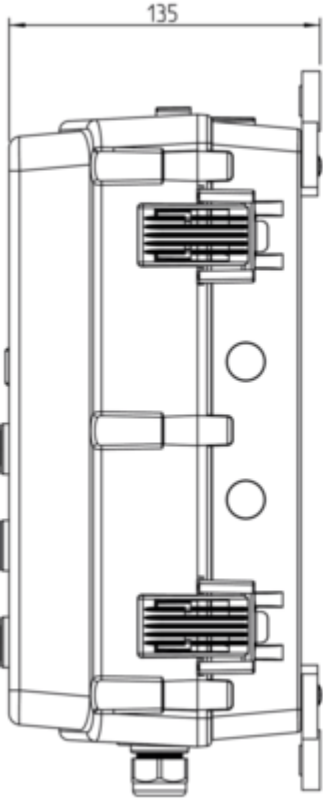
Item no.	Description
99097	Screw connection set for 1 rack
144095	M6 rack 2 m rack, module 6, made of steel, for welding
82517	Radial damper M4 Radial damper module 4 for regulating the closing speed of unlocked sliding gates
88933	Radial damper M6 Radial damper module 6 for regulating the closing speed of unlocked sliding gates

Predecessors

Item no.	Description	Discontinuation
185318	SD0 05-8-45 Set for sliding gates up to 1,100 kg: 400 V-AC motor, 80 Nm, 18 cm/s, spur gear M6-13Z, CS 320 control and sheet steel housing	2025-11-07

Technical drawings

CS 320 2,2 kW



SD005 Steel housing

