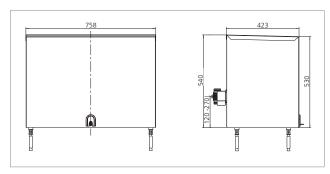
# SDO 35-13-45

# Opener system for heavy sliding gates









# NEW

# SDO 35-13-45

Article	Article no.	Price each
SDO 35-13-45 E SDO 35-13-45 E FU/E	120 645 120 640	
Available on request: Gate width of max. 21.5 m Exterior release with profile half cylinder Extended range of temperature for the motor unit until –40 °C and for the control unit until –35 °C Emergency hand crank and intergrated safety catch device for rising sliding gates		

Features  Frequency converter technique (120 640 only) Absolute value encoder technique Excess travel stop Integrated emergency release Housing access via lockable cover Integrated evaluation 8.2 kΩ Height adjustable piston rod, max. 150 mm adjustable Programming and status indication via LC-display Direction of rotation programmable Automatic closing function Door open duration and warning time programmable Partial opening programmable Gate travel speed OPEN and CLOSE programmable (120 640 only) Soft run position OPEN and CLOSE programmable (120 640 only) 4 programmable relay outputs 2 programmable relay outputs 2 programmable inputs Servicing counter and door cycle counter Servicing interval programmable Fault messages with memory Multistage reset function (complete, without converter, MS-Bus only) Connection for: Push button (conventional) Radio receiver (pluggable) Expansion module EM 172 traffic control (MS-Bus) Week timer (pluggable) Marantec photocell OPEN and CLOSE (conventional) Other's photocell OPEN and CLOSE (conventional) Closing edge safety device 8.2 kΩ OPEN and CLOSE (conventional) Signal light (conventional) Power supply for external elements 24 V DC max. 500 mA (conventional)	intergrated safety catch device		
Frequency converter technique (120 640 only) Absolute value encoder technique Excess travel stop Integrated emergency release Housing access via lockable cover Integrated evaluation 8.2 kΩ Height adjustable piston rod, max. 150 mm adjustable Programming and status indication via LC-display Direction of rotation programmable Automatic closing function Door open duration and warning time programmable Partial opening programmable Gate travel speed OPEN and CLOSE programmable (120 640 only) Soft run position OPEN and CLOSE programmable (120 640 only) Soft run speed OPEN and CLOSE programmable (120 640 only) 4 programmable relay outputs 2 programmable relay outputs 2 programmable inputs Servicing counter and door cycle counter Servicing interval programmable Fault messages with memory Multistage reset function (complete, without converter, MS-Bus only) Connection for: Push button (conventional) Radio receiver (pluggable) Expansion module EM 172 traffic control (MS-Bus) Week timer (pluggable) Marantec photocell OPEN and CLOSE (conventional) Other's photocell OPEN and CLOSE (conventional) Hold circuit (conventional) Closing edge safety device 8.2 kΩ OPEN and CLOSE (conventional) Signal light (conventional) Power supply for external elements 24 V DC max. 500 mA (conventional)	for rising sliding gates		
Absolute value encoder technique Excess travel stop Integrated emergency release Housing access via lockable cover Integrated evaluation 8.2 kΩ Height adjustable piston rod, max. 150 mm adjustable Programming and status indication via LC-display Direction of rotation programmable Automatic closing function Door open duration and warning time programmable Partial opening programmable Gate travel speed OPEN and CLOSE programmable (120 640 only) Soft run position OPEN and CLOSE programmable (120 640 only) Soft run speed OPEN and CLOSE programmable (120 640 only) 4 programmable relay outputs 2 programmable relay outputs 2 programmable inputs Servicing counter and door cycle counter Servicing interval programmable Fault messages with memory Multistage reset function (complete, without converter, MS-Bus only) Connection for: Push button (conventional) Radio receiver (pluggable) Expansion module EM 172 traffic control (MS-Bus) Week timer (pluggable) Marantec photocell OPEN and CLOSE (conventional) Other's photocell OPEN and CLOSE (conventional) Hold circuit (conventional) Closing edge safety device 8.2 kΩ OPEN and CLOSE (conventional) Signal light (conventional) Power supply for external elements 24 V DC max. 500 mA (conventional)	Features		
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Integrated emergency release Housing access via lockable cover Integrated evaluation 8.2 k $\Omega$ Height adjustable piston rod, max. 150 mm adjustable Programming and status indication via LC-display Direction of rotation programmable Automatic closing function Door open duration and warning time programmable Partial opening programmable Gate travel speed OPEN and CLOSE programmable (120 640 only) Soft run position OPEN and CLOSE programmable (120 640 only) Soft run speed OPEN and CLOSE programmable (120 640 only) 4 programmable relay outputs 2 programmable inputs Servicing counter and door cycle counter Servicing interval programmable Fault messages with memory Multistage reset function (complete, without converter, MS-Bus only)  Connection for: Push button (conventional) Radio receiver (pluggable) Expansion module EM 172 traffic control (MS-Bus) Week timer (pluggable) Marantec photocell OPEN and CLOSE (conventional) Other's photocell OPEN and CLOSE (conventional) Closing edge safety device 8.2 k $\Omega$ OPEN and CLOSE (conventional) Signal light (conventional) Power supply for external elements 24 V DC max. 500 mA (conventional)	Absolute value encoder technique		
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Soft run speed OPEN and CLOSE programmable (120 640 only) 4 programmable relay outputs 2 programmable inputs Servicing counter and door cycle counter Servicing interval programmable Fault messages with memory Multistage reset function (complete, without converter, MS-Bus only) Connection for: Push button (conventional) Radio receiver (pluggable) Expansion module EM 172 traffic control (MS-Bus) Week timer (pluggable) Marantec photocell OPEN and CLOSE (conventional) Other's photocell OPEN and CLOSE (conventional) Hold circuit (conventional) Closing edge safety device 8.2 kΩ OPEN and CLOSE (conventional) Signal light (conventional) Power supply for external elements 24 V DC max. 500 mA (conventional) Power supply for external elements 230 V AC max. 1,000 mA			
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Servicing counter and door cycle counter  Servicing interval programmable  Fault messages with memory  Multistage reset function (complete, without converter, MS-Bus only)  Connection for:  Push button (conventional)  Radio receiver (pluggable)  Expansion module EM 172 traffic control (MS-Bus)  Week timer (pluggable)  Marantec photocell OPEN and CLOSE (conventional)  Other's photocell OPEN and CLOSE (conventional)  Hold circuit (conventional)  Closing edge safety device 8.2 kΩ OPEN and CLOSE (conventional)  Signal light (conventional)  Power supply for external elements 24 V DC max. 500 mA (conventional)  Power supply for external elements 230 V AC max. 1,000 mA			
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Fault messages with memory Multistage reset function (complete, without converter, MS-Bus only)  Connection for:  Push button (conventional)  Radio receiver (pluggable)  Expansion module EM 172 traffic control (MS-Bus)  Week timer (pluggable)  Marantec photocell OPEN and CLOSE (conventional)  Other's photocell OPEN and CLOSE (conventional)  Hold circuit (conventional)  Closing edge safety device 8.2 kΩ OPEN and CLOSE (conventional)  Signal light (conventional)  Power supply for external elements 24 V DC max. 500 mA (conventional)  Power supply for external elements 230 V AC max. 1,000 mA		nter	
Multistage reset function (complete, without converter, MS-Bus only)  Connection for:  Push button (conventional)  Radio receiver (pluggable)  Expansion module EM 172 traffic control (MS-Bus)  Week timer (pluggable)  Marantec photocell OPEN and CLOSE (conventional)  Other's photocell OPEN and CLOSE (conventional)  Hold circuit (conventional)  Closing edge safety device 8.2 kΩ OPEN and CLOSE (conventional)  Signal light (conventional)  Power supply for external elements 24 V DC max. 500 mA (conventional)  Power supply for external elements 230 V AC max. 1,000 mA			
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Week timer (pluggable) Marantec photocell OPEN and CLOSE (conventional) Other's photocell OPEN and CLOSE (conventional) Hold circuit (conventional) Closing edge safety device 8.2 kΩ OPEN and CLOSE (conventional) Signal light (conventional) Power supply for external elements 24 V DC max. 500 mA (conventional) Power supply for external elements 230 V AC max. 1,000 mA			
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Other's photocell OPEN and CLOSE (conventional) Hold circuit (conventional) Closing edge safety device 8.2 kΩ OPEN and CLOSE (conventional) Signal light (conventional) Power supply for external elements 24 V DC max. 500 mA (conventional) Power supply for external elements 230 V AC max. 1,000 mA		/	
Hold circuit (conventional) Closing edge safety device 8.2 kΩ OPEN and CLOSE (conventional) Signal light (conventional) Power supply for external elements 24 V DC max. 500 mA (conventional) Power supply for external elements 230 V AC max. 1,000 mA			
Closing edge safety device 8.2 kΩ OPEN and CLOSE (conventional) Signal light (conventional) Power supply for external elements 24 V DC max. 500 mA (conventional) Power supply for external elements 230 V AC max. 1,000 mA		.onventional)	
Signal light (conventional)  Power supply for external elements 24 V DC max. 500 mA (conventional)  Power supply for external elements 230 V AC max. 1,000 mA		EN and CLOSE (conventional)	
Power supply for external elements 24 V DC max. 500 mA (conventional)  Power supply for external elements 230 V AC max. 1,000 mA		LIV and CLOSE (Conventional)	
(conventional)  Power supply for external elements 230 V AC max. 1,000 mA		4 V DC max 500 mΔ	
Power supply for external elements 230 V AC max. 1,000 mA			
		30 V AC max 1 000 mA	
		20 T. C. Max. 1,000 Hill	

### **Package**

- · Motor unit with integrated control unit Control CS 310 or CS 310 FU
- · Stainless steel cover, lockable
- · Mounting plate and spur gear module 6 pre-assembled
- · Mounting material

# **Application**

Gate width (max.)	17,200 mm
Gate weight (max.)	2,200 kg
Module	6

### **Mechanical details**

Torque (max.)	130 Nm
Nominal rotational speed (max.)	45 min <sup>-1</sup>
Gate travel speed at 50 Hz	170 mm/s

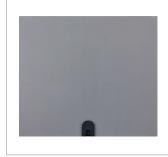
# **Electrical details**

Nominal voltage	400 V AC
Nominal frequency	50 Hz
Power consumption	3.2 A
Motor output	0.96 kW
Cycles per hour (max.)	8
Motor voltage	400 V AC
Control voltage	24 V DC
Protection category motor unit	IP 54
Protection category control unit	IP 65
Protection class	1

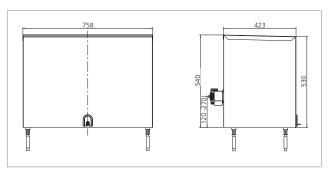
Range of temperature motor unit	−20 °C to +55 °C
Range of temperature control unit	−10 °C to +45 °C

# Opener system for heavy sliding gates









# NEW

# SDO 35-20-24

Article	Article no.	Price each
SDO 35-20-24 E SDO 35-20-24 E FU/E	120 646 120 641	
Available on request: Gate width of max. 21.5 m Exterior release with profile half cylinder Extended range of temperature for the motor unit until –40 °C and for the control unit until –35 °C Emergency hand crank and intergrated safety catch device for rising sliding gates		

intergrated safety catch device for rising sliding gates			
for rising sliding gates			
Features			
Frequency converter technique (120 641	only)		
Absolute value encoder technique			
Excess travel stop		_	
Integrated emergency release			
Housing access via lockable cover			
Integrated evaluation 8.2 k $\Omega$			
Height adjustable piston rod, max. 150 m			
Programming and status indication via LC	C-display		
Direction of rotation programmable			
Automatic closing function			
Door open duration and warning time pro	ogrammable		
Partial opening programmable			
Gate travel speed OPEN and CLOSE progr			
Soft run position OPEN and CLOSE progra			
Soft run speed OPEN and CLOSE program	nmable (120 (	541 only)	
4 programmable relay outputs			
2 programmable inputs			
Servicing counter and door cycle counter	•		
Servicing interval programmable			
Fault messages with memory	aut converte	r MC Bus only)	
Multistage reset function (complete, without converter, MS-Bus only)  Connection for:			
Push button (conventional)			
Radio receiver (pluggable)			
Expansion module EM 172 traffic control (MS-Bus)			
Week timer (pluggable)			
Marantec photocell OPEN and CLOSE (conventional)			
Other's photocell OPEN and CLOSE (conventional)			
Hold circuit (conventional)			
Closing edge safety device 8.2 kΩ OPEN and CLOSE (conventional)			
Signal light (conventional)			
Power supply for external elements 24 V DC max. 500 mA			
(conventional)			
Power supply for external elements 230 V AC max. 1,000 mA			
(conventional)			

#### **Package**

- · Motor unit with integrated control unit Control CS 310 or CS 310 FU
- · Stainless steel cover, lockable
- · Mounting plate and spur gear module 6 pre-assembled
- · Mounting material

# **Application**

Gate width (max.)	17,200 mm
Gate weight (max.)	3,500 kg
Module	6

### **Mechanical details**

Torque (max.)	200 Nm
Nominal rotational speed (max.)	24 min <sup>-1</sup>
Gate travel speed at 50 Hz	90 mm/s

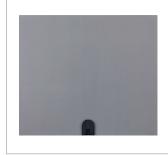
# **Electrical details**

Nominal voltage	400 V AC
Nominal frequency	50 Hz
Power consumption	3.3 A
Motor output	1.1 kW
Cycles per hour (max.)	5
Motor voltage	400 V AC
Control voltage	24 V DC
Protection category motor unit	IP 54
Protection category control unit	IP 65
Protection class	1

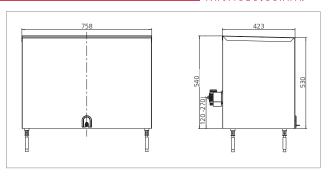
Range of temperature motor unit	−20 °C to +55 °C
Range of temperature control unit	−10 °C to +45 °C

# Opener system for heavy sliding gates









# NEW

# SDO 35-21-45

Article	Article no.	Price each
SDO 35-21-45 E SDO 35-21-45 E FU/E	120 647 120 642	
Available on request: Gate width of max. 21.5 m Exterior release with profile half cylinder Extended range of temperature for the motor unit until –40 °C and for the control unit until –35 °C Emergency hand crank and intergrated safety catch device for rising sliding gates		

intergrated safety catch device			
for rising sliding gates			
Features			
Frequency converter technique (120 64	42 only)		
Absolute value encoder technique			
Excess travel stop			
Integrated emergency release			
Housing access via lockable cover			
Integrated evaluation 8.2 kΩ			
Height adjustable piston rod, max. 150		<u> </u>	
Programming and status indication via	LC-display		
Direction of rotation programmable			
Automatic closing function			
Door open duration and warning time	programmable		
Partial opening programmable			
Gate travel speed OPEN and CLOSE pro			
	Soft run position OPEN and CLOSE programmable (120 642 only)		
Soft run speed OPEN and CLOSE progr	rammable (120	642 only)	
4 programmable relay outputs			
2 programmable inputs			
Servicing counter and door cycle count	ter		
Servicing interval programmable			
Fault messages with memory Multistage reset function (complete, w	ithaut canvarta	MC Due only	
Connection for:	illiout converte	er, IVIS-BUS OFFIY)	
Push button (conventional)			
Radio receiver (pluggable)			
Expansion module EM 172 traffic cont	rol (MS-Rus)		
Week timer (pluggable)	(		
Marantec photocell OPEN and CLOSE (	(conventional)		
Other's photocell OPEN and CLOSE (conventional)			
Hold circuit (conventional)			
Closing edge safety device 8.2 kΩ OPE	N and CLOSE (	conventional)	
Signal light (conventional)			
Power supply for external elements 24 V DC max. 500 mA			
(conventional)			
Power supply for external elements 23	0 V AC max. 1,	000 mA	
(conventional)			

### **Package**

- · Motor unit with integrated control unit Control CS 310 or CS 310 FU
- · Stainless steel cover, lockable
- · Mounting plate and spur gear module 6 pre-assembled
- · Mounting material

# **Application**

Gate width (max.)	17,200 mm
Gate weight (max.)	3,800 kg
Module	6

### **Mechanical details**

Torque (max.)	210 Nm
Nominal rotational speed (max.)	45 min <sup>-1</sup>
Gate travel speed at 50 Hz	170 mm/s

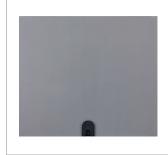
# **Electrical details**

Nominal voltage	400 V AC
Nominal frequency	50 Hz
Power consumption	4.0 A
Motor output	1.5 kW
Cycles per hour (max.)	8
Motor voltage	400 V AC
Control voltage	24 V DC
Protection category motor unit	IP 54
Protection category control unit	IP 65
Protection class	1

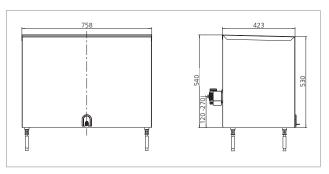
Range of temperature motor unit	−20 °C to +55 °C
Range of temperature control unit	−10 °C to +45 °C

# Opener system for heavy sliding gates









# NEW

# SDO 35-33-24

Article	Article no.	Price each
SDO 35-33-24 E	120 648	
SDO 35-33-24 E FU/E  Available on request: Gate width of max. 21.5 m Exterior release with profile half cylinder Extended range of temperature for the motor unit until –40 °C and for the control unit until –35 °C Emergency hand crank and	120 644	
intergrated safety catch device for rising sliding gates		

intergrated safety catch device			
for rising sliding gates			
Features			
Frequency converter technique (120 64	14 only)		
Absolute value encoder technique			
Excess travel stop			
Integrated emergency release			
Housing access via lockable cover			
Integrated evaluation 8.2 kΩ			
Height adjustable piston rod, max. 150		<u> </u>	
Programming and status indication via	LC-display		
Direction of rotation programmable			
Automatic closing function			
Door open duration and warning time	programmable		
Partial opening programmable			
Gate travel speed OPEN and CLOSE pro			
Soft run position OPEN and CLOSE pro	<del></del>		
Soft run speed OPEN and CLOSE progr	rammable (120	644 only)	
4 programmable relay outputs			
2 programmable inputs Servicing counter and door cycle count			
	ter		
Servicing interval programmable Fault messages with memory			
Multistage reset function (complete, w	ithout converte	r MS_Rus only)	
Connection for:	itilout converte	i, IVIS DUS OTTIY/	
Push button (conventional)			
Radio receiver (pluggable)			
Expansion module EM 172 traffic control (MS-Bus)			
Week timer (pluggable)			
Marantec photocell OPEN and CLOSE (conventional)			
Other's photocell OPEN and CLOSE (conventional)			
Hold circuit (conventional)			
	Closing edge safety device 8.2 $k\Omega$ OPEN and CLOSE (conventional)		
Signal light (conventional)			
Power supply for external elements 24 V DC max. 500 mA			
(conventional)			
Power supply for external elements 230 V AC max. 1,000 mA (conventional)			
(conventional)			

### **Package**

- · Motor unit with integrated control unit Control CS 310 or CS 310 FU
- · Stainless steel cover, lockable
- · Mounting plate and spur gear module 6 pre-assembled
- · Mounting material

# **Application**

Gate width (max.)	17,200 mm
Gate weight (max.)	4,400 kg
Module	6

### **Mechanical details**

Torque (max.)	330 Nm
Nominal rotational speed (max.)	24 min <sup>-1</sup>
Gate travel speed at 50 Hz	90 mm/s

# **Electrical details**

Nominal voltage	400 V AC
Nominal frequency	50 Hz
Power consumption	4.2 A
Motor output	1.5 kW
Cycles per hour (max.)	5
Motor voltage	400 V AC
Control voltage	24 V DC
Protection category motor unit	IP 54
Protection category control unit	IP 65
Protection class	1

Range of temperature motor unit	−20 °C to +55 °C
Range of temperature control unit	−10 °C to +45 °C