

Door Controls

CS 320 FU



The CS 320 FU is a comfortable automatic control unit with frequency converter. A frequency converter module is added to the standard CS 320 board, thus allowing speed-independent control of gates. This not only ensures optimum dynamics, but also energy-efficient operation of the door system.

2 delivery variants are available:

CS 320 FU-E - the frequency converter is integrated in the control housing

CS 320 FU-I - the frequency inverter is integrated in the operator unit

Features

i This control is based on the basic equipment of the CS 320. In addition, it has the following features:

Functions

- Start and end speed separately adjustable for both running directions
- Additionally 2nd final speed adjustable in running direction CLOSE
- Acceleration and deceleration times adjustable for both directions
- Braking points freely selectable/adjustable braking deceleration
- Adjustable power values for adaptation to the motor
- 4 programmable relay outputs with 44 functions
- 2 programmable inputs with 27 functions
- Rotation direction monitoring and detection (only with AWG)
- Integrated gate run counter
- Integrated error memory (readout of all error messages indicating frequency and cycle of last occurrence) only with LCD monitor
- Changing the direction of rotation via circuit board push button/display
- Adjustable power limitation in OPEN direction (only with AWG)
- Intermediate position programmable (only with AWG)

Structure and connection

- Short-circuit proof extra-low voltage
- Supply for external devices (24 V-DC/500 mA and 230 V-AC/1 A)
- 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
- Control of the magnetic brake via relay output
- For operators with externally switched brake, a brake monitoring module is additionally installed (BWM1)
- Interface for connecting a frequency converter
- Switchable transformer from 230 V/1~/3~ to 400 V/3~
- Pluggable LC display with plain text display

Optional

- MS-Bus extension module two-way traffic control
- MS-Bus extension module pull-in safety device
- Integrated main switch
- Customized cover lamination
- Frequency converter integrated in operator (FU-I version without brake, only 0.75 kW)
- Control in steel cabinet

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Technical data

	CS 265 1,5kW	CS 320 4 kW	CS 320 IE	CS 320 2,2 kW
On-site supply	230 V/3~/50 Hz; 400 V/3~/50 Hz	230 V/1~/50 Hz; 230 V/3~/50 Hz; 400 V/3~/50 Hz		400 V/3~/50 Hz
Control voltage [V]	24 V-DC			
Switching current (max.) [A]	5	9	8	
Load capacity Power (max.) [kW]	1.5	4	2.2	
Protection class	IP65			
Temperature (min./max.) [°C]	-10/45			
Dimensions (WxHxD) [mm]			245x455x190	215x275x190 245x455x190

	CS 320 FU-I 0.75 kW	CS 320 FU-E 1.5 kW	CS 320 FU-E 1.5 kW 1Ph
Input voltage [V]	230 V/1~	400 V/3~	230 V/1~
Output voltage [V]	230 V/1~	400 V/3~	230 V/3~
On-site supply	230 V/1~/50 Hz	400 V/3~/50 Hz	230 V/1~/50 Hz
Control voltage [V]	24 V-DC		
Output current [A]	4.1		7.8
Switching current (max.) [A]	4.1		7.8
Output power [kW]	0.75	1.5	
Load capacity Power (max.) [kW]	0.75	1.5	
Protection class	IP65		
Temperature (min./max.) [°C]	-10/45		
Dimensions (WxHxD) [mm]	215x275x190	245x455x190	260x550x245

	CS 320 FU-E 2.2 kW	CS 320 FU-E 3.0 kW	CS 320 FU-E 4.0 kW
Input voltage [V]	400 V/3~		
Output voltage [V]	400 V/3~		
On-site supply	400 V/3~/50 Hz		
Control voltage [V]	24 V-DC		
Output current [A]	5.6	7.3	8.8
Switching current (max.) [A]	5.6	7.3	8.8
Output power [kW]	2.2	3	4
Load capacity Power (max.) [kW]	2.2	3	4
Protection class	IP65		
Temperature (min./max.) [°C]	-10/45		
Dimensions (WxHxD) [mm]	245x455x190	260x550x245	

	CS 320 FU-E IE 0,75 kW	CS 320 FU-E IE 1,5 kW
Input voltage [V]	230 V/1~	400 V/3~
Output voltage [V]	230 V/3~	400 V/3~
On-site supply	230 V/1~/50 Hz	400 V/3~/50 Hz
Control voltage [V]	24 V-DC	
Output current [A]	4.1	
Switching current (max.) [A]	4.1	
Output power [kW]	0.75	1.5
Load capacity Power (max.) [kW]	0.75	1.5
Protection class	IP65	
Temperature (min./max.) [°C]	-10/45	
Dimensions (WxHxD) [mm]	245x455x190	245x275x190