

C Series

INDUSTRIAL SECTIONAL
DOOR OPERATOR

C40/C60/C90/C120

C40/C60/C90/C120 Features

The C40/C60/C90/C120 motor drive unit features an integrated design combining a servo motor and worm gear reducer, offering a compact structure and lightweight construction. Fully automatic emergency manual operating device (hand chain) – no electric/manual gear switching required. Available in two voltage versions, supporting 220 V and 110 V input respectively.

C40/C60/C90/C120 Certifications

CE Certificate Standards

EN 12978:2003+A1:2009, EN 60204-1:2018,
EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019

Related to CE Directive(s)

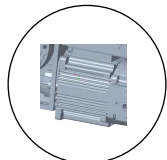
2014/35/EU (Low Voltage)
2014/30/EU (Electromagnetic Compatibility)

TÜV certificate Standards

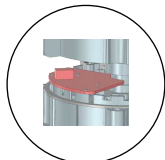
EN IEC 61000-6-4:2019
EN IEC 61000-6-2:2019



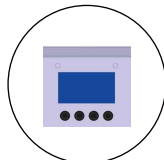
C40/C60/C90/C120 Details



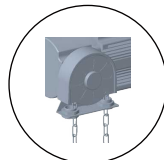
Rare-Earth Permanent Magnet Motor



Electronic Limit with Absolute Encoder



3-Inch LCD Screen with Four Function Keys



Emergency Manual Operating Device

C40/C60/C90/C120 Motor Specifications

				
Model	C40	C60	C90	C120
Motor Type	Servo Motor (PMSM)	Servo Motor (PMSM)	Servo Motor (PMSM)	Servo Motor (PMSM)
Working System	S3	S3	S3	S3
Motor Power (W)	450	550	1100	1500
Power Supply (V)	1N-220V±10% 1N-110V±10%	1N-220V±10% 1N-110V±10%	1N-220V±10% 1N-110V±10%	1N-220V±10% 1N-110V±10%
Frequency (Hz)	50/60	50/60	50/60	50/60
Current (A)	220V : 4 110V : 8	220V : 6 110V : 12	220V : 10 110V : 19	220V : 13 110V : 26
Output Speed (rpm) ¹⁾	10-50	10-50	7.5-35	7.5-35
Output Torque	40	60	90	120
Door Weight (kg) ²⁾	400	560	720	880
Motor Ip Level	54	54	54	54
Working Environment (°C)	-20~+50	-20~+50	-20~+50	-20~+50
Hollow Shaft (mm)	25.4	25.4	25.4/31.75	25.4/31.75
Incremental Encoder (Built-in)	✓	✓	✓	✓
Absolute Encoder (Built-in)	✓	✓	✓	✓
Hand Chain Length (m)	4	5.5	8	8
Cables Length (m)	5	6	9	9
Recommended Cycles Per Hour	10	10	6	6
Weight (kg)	11	12	14.5	15
Dimension (mm)	315.9 x 179 x 180		342 x 202.5 x 181	

Values marked in color indicate customizable options.

- (1) Factory default speed: 26 rpm; Maximum speed at rated power: 40 rpm (C40/C60); Maximum speed at rated power: 40 rpm (C90/C120);
- (2) The weight of door per square meter is calculated as 16kg/m² (This value is for reference only due to the excessive variables in the sectional door counterweight system.)

Notes

- A safety margin is built into the Recommended Cycles per Hour to help extend the service life of the motor.
- Sectional doors equipped with a balancing system require regular inspection and rebalancing of the springs.
- If the controller indicates a sudden increase in torque, the counterbalance system may require immediate adjustment.
- The reducer's self-locking mechanism, working in conjunction with the balancing system, prevents the door from descending unexpectedly through an internal gear-locking structure.
- The opening and closing speeds may also vary depending on the door's structural design and configuration.

