

SCHIEBEL

cm series

issue November 2020

90° Failsafe

Modulating-Duty / On-Off-Duty
up to 5000 Nm



Power supply

- AC: 1phase 90...240Vrms 50/60Hz +/-10%
- DC: 24VDC & 100...220VDC +/-10% ■ 3-phase: Option

Motor

- PM-motor ■ controlled via frequency inverter ■ isolation class F

Operation mode

- CMxx: ON/OFF duty S2-15min & class A and B
- rCMxx: Modulating duty S4-1200 cycles/hour with 40% duty cycle & class C

Local control

- Selector switch LOCAL-OFF-REMOTE - lockable
- Control switch OPEN-STOP-CLOSE ■ Large LC-display for detailed visualization of status information & parameters - different languages adjustable ■ Red display backlight for alarms ■ 5 RGB LEDs for status indication & control information ■ Cover lid with display in 90° steps rotatable ■ Bluetooth interface for data exchange and actuator control with Android App or Windows PC

Remote control

- 5 binary inputs 24V/48VDC (max.60VDC): Open - Stop - Close - Emergency Open - Emergency Close, free programmable, 24VDC rated voltage with common ground potential, inputs with jumpers configurable in groups with separated commons

Status signals

- 8 binary outputs 24VDC: Ready - Open - Closed - Opening - Closing - Torque - Local - Remote, free programmable, 24VDC supply, max. load 0,5A/channel

Motor protection

- Monitoring of motor temperature (within thermostats in motor)
- Phase sequence monitoring or automatic correction with 3-phase modul for a safe installation

Features

- free adjustable step mode control for open and close
- 4 intermediate positions definable ■ actuator torque adjustable between 25-100% from max. torque ■ Alternative menu structure adjustable ■ Different user levels adjustable ■ Counter values for preventive Maintenance notification

Handwheel

Optional

Valve connection

- Flange according ISO 5210
- Bore with keyway or square bore in plug coupling

Electric connectors

- Lid plug with: Power connection via 10pole screw plug Han10E+PE
- Control and status signals via 24pole screw plug Han24E
- Metric cable entries for cable glands, closed with blind glands

Ambient temperature

- -25°C up to +60°C

Enclosure protection

- IP67 according EN 60 529, IP68 on request

Corrosion protection

- K2 for installation in aggressive atmosphere, all others on request

Color

- RAL7024 - graphite grey, all others on request

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Size		(r)CM03 FSQT 30	(r)CM03 FSQT 60	(r)CM06 FSQT 100	(r)CM06 FSQT 200	(r)CM06 FSQT 300	(r)CM06 FSQT 500
max. torque electric mode	Nm	300	600	1000	2000	3000	5000
max. modulating torque rCM	Nm	150	300	500	1000	1500	2500
Spring remaining torque in failsafe mode	Nm	150	300	500	1000	1500	2500
Stroking time 90° electric mode (adjustable)	sec	15-400	15-400	20-500	30-650	30-650	44-650
Stroking time 90° electric mode (24VDC)	sec	54-400	54-400	--	--	--	--
Stroking time 90° in failsafe mode (1)	sec	1-5	1-5	1-5	2-10	3-15	5-20
Valve flange	ISO 5210	F07&F10	F10&F12	F12&F14	F14&F16	F14&F16	F16&F25
max. Ø valve shaft with plug coupling	mm	25	40	49	60	60	--
max. valve square with plug coupling	mm	22	32	41	46	46	--
max. valve stem length	mm	80	99	104	124	127	127
max. Ø valve shaft without coupling	mm	35	45	50	70	70	80
max. valve square without coupling	mm	27	27	36	46	50	65
Weight	kg	43	53	140	200	215	353
Failsafe direction		cw rotation or ccw rotation (to define)					
Failsafe design		close or open (to define)					
Power supply 1ph (Standard)		AC1~90...240Vrms 50/60Hz +/-10% & 100...220VDC +/-10%					
Nominal current - 1x230VAC	A	1,47A (16Nm / 72rpm)		2,17A (20Nm / 60rpm)			
Wiring diagram Power		SCP 12.40.03fs/1					
Power supply 3ph (Option)		AC 3~380-480V 50/60Hz +/-10%					
Nominal current - 3x400VAC	A	0,46A (16Nm / 72rpm)		0,9A (32Nm / 60rpm)			
Wiring diagram Power		SCP 11.40.03fs/1					
Power supply 24VDC (Option) (2)		DC 24V +/-10%		--			
Nominal current	A	4,6A (10Nm / 20rpm)		--			
Wiring diagram Power		SCP 13.40.01fs/1		--			
Wiring diagram Control		for 1ph/3ph/24VDC: SCC 10.00.07/4					

(1) with no load and room temperature of +20°C (2) max. output speed 20rpm with 24VDC power supply
Our deliveries and services are subject to our currently valid General Conditions of Business and Sale.