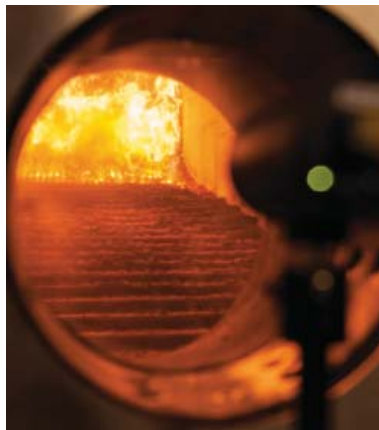


Leading in Electric Spring Return Technology

SCHIEBEL



„YOUR SUCCESS IS OUR DRIVE“



SCHIEBEL Antriebstechnik GmbH
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90° part-turn actuators EL-Series
Issue 25.10.19



Your way to company SCHIEBEL

SCHIEBEL ANTRIEBSTECHNIK GMBH is placed in the South of Vienna close to the motorways A2, A21 and S1.

Sales, development and production is located in the headquarter in Vienna.

Additionally SCHIEBEL has a big stock for spare parts and a service area where actuators can be repaired independent from the year of manufacture.

SCHIEBEL is one of the leading companies in the electric actuator technology, so sales and service partners can be found all over the world.

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Type		EL20	EL40	EL80
max. torque	Nm	20	40	80
Stroking time 90° with 50 / 60Hz	Sec.	11	14 / 12	16 / 14
Mounting	ISO 5210	F03	F03	F05 / F07
Square bore	mm	9x9	14x14	17x17
Travel angle	°	90 +/-5	90 +/-5	90 +/-10
Manual operation		--	Yes	Yes / Allen wrench
Mechanical position indication		--	Yes	Yes
Self Locking		No	No	Yes
Coating		Polyester coating	Polyester coating	Polyester coating
Colour		Red	Red	Red
Enclosure	EN 60 529	IP66	IP66	IP67
Ambient Temperature	°C	-10 up to +65	-10 bis +65	-20 up to +70
approx. weight	kg	1	3	3,5
Dimension drawing		M-EL20E	M-EL40E	M-EL80E
Duty Cycle On/Off		S2-30min	S2-30min	S2-30min
Duty Cycle Modulating		--	--	S4-50% 1200c/h
Power supply AC		AC 85-265V/1ph, 50/60Hz	AC 110,220VAC/1ph/50,60Hz	AC 110,220VAC/1ph/50,60Hz
Power supply 24V		24VDC & 24VAC	24VDC	24VDC
Motor		DC-Motor	DC-Motor	Induction Motor
Motor Insulation Class		E	E	E
Space Heater	W	--	--	3
Current Consumption 24VAC	A	0,60	--	--
Current Consumption 24VDC	A	0,55	0,80	1,90
Current Consumption 110VAC1ph 50/60Hz	A	0,16	0,27	0,97
Current Consumption 220VAC1ph 50/60Hz	A	0,08	0,18	0,52
Current Consumption 380VAC3ph 50/60Hz	A	--	--	0,52
Current Consumption 440VAC3ph 50/60Hz	A	--	--	0,56
Electric Connection		--	Terminal Block	Terminal Block
Cable Entries / Cabel glands		1pce. PG11 Cable gland with 30cm cable	2pcs. PG11 Cable glands with 30cm cable	2pcs. M20x1,5 with blind glands
Limit Switches (5A, 250VAC)		2pcs. ea for Open/Close	2pcs. ea for Open/Close	2pcs. ea for Open/Close
Extra Limit Switches (Option)		2pcs. relays ea for Open/Close	2pcs. relays ea for Open/Close	2pcs. ea for Open/Close
Wiring 1phase		ITQ0020-70000-F	ITQ0040-70000-F	ITQ0080-70000-G
Wiring 1phase + RPC Module		--	--	ITQ0080-70500-G
Wiring 3phase		--	--	ITQ0080-80000-G
Wiring 24V		ITQ0020-70000-F	ITQ0040-90000-F	ITQ0080-90000-G

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Baugröße		EL100	EL160	EL240	EL350
max. torque	Nm	100	160	240	350
Stroking time 90° with 50 / 60Hz	Sek.	21 / 18	26 / 22 1)	26 / 22 2)	31 / 26 3)
Mounting	ISO 5210	F07	F07 / F10	F07 / F10	F10 / F12
max. bore diameter	mm	22	25	25	40
Square bore	mm	20	23	23	34
Travel angle	°	90 +/-5 with end stopper	90 +/-5 with end stopper	90 +/-5 with end stopper	90 +/-5 with end stopper
Manual operation		Yes / De-clutchable	Yes / De-clutchable	Yes / De-clutchable	Yes / De-clutchable
Mechanical position indication		Yes	Yes	Yes	Yes
Coating		Dry powder (polyester)	Dry powder (polyester)	Dry powder (polyester)	Dry powder (polyester)
Colour		Red	Red	Red	Red
Enclosure	EN60529	IP67	IP67	IP67	IP67
Ambient Temperature	°C	-20 up to +70 4)	-20 up to +70 4)	-20 up to +70 4)	-20 up to +70 4)
approx. weight	kg	7	15	15	20
Dimension drawing		M-EL100E	M-EL160E	M-EL240E	M-EL350E
Duty Cycle On/Off		S2: max. 20min	S2: max. 30min	S2: max. 30min	S2: max. 30min
Duty Cycle Modulating		S4: 30% 800 Starts/hour	S4: 50% 1200 Starts/hour	S4: 50% 1200 Starts/hour	S4: 50% 1200 Starts/hour
Power supply AC 1-phase		110/220VAC, 50/60Hz +/-10%	110/220VAC, 50/60Hz +/-10%	110/220VAC, 50/60Hz +/-10%	110/220VAC, 50/60Hz +/-10%
Power supply AC 3-phase		380/440VAC, 50/60Hz +/-10%	380/440VAC, 50/60Hz +/-10%	380/440VAC, 50/60Hz +/-10%	380/440VAC, 50/60Hz +/-10%
Power supply DC		24V	24V	24V	24V
Control voltage		110/220VAC, 50/60Hz +/-10%	110/220VAC, 50/60Hz +/-10%	110/220VAC, 50/60Hz +/-10%	110/220VAC, 50/60Hz +/-10%
Motor		Induction Motor	Induction Motor	Induction Motor	Induction Motor
Motor Insulation Class		F	F	F	F
Space Heater	W	5W (110/220VAC)	5W (110/220VAC)	5W (110/220VAC)	5W (110/220VAC)
max. current with 24V AC/DC		4,5	3,2	4,8	7,6
max. current with 110VAC, 1ph, 50/60Hz		1,25/1,35	2,26/2,38	2,26/2,38	2,87/2,87
max. current with 220VAC, 1ph, 50/60Hz		0,72/0,75	1,07/1,12	1,07/1,12	1,38/1,37
max. current with 380VAC, 3ph, 50/60Hz		0,85/0,65	0,60/0,59	2,26/0,59	0,77/0,74
max. current with 440VAC, 3ph, 50/60Hz		0,98/0,84	0,69/0,59	0,69/0,65	0,88/0,83
Electric Connection		Terminal Block	Terminal Block	Terminal Block	Terminal Block
Cable Entries / Cabel glands		2pcs. 3/4"	2pcs. 3/4"	2pcs. 3/4"	2pcs. 3/4"
Limit Switches		4pcs. SPDT (250VAC/16A) 2xOpen/2xClose	4pcs. SPDT (250VAC/16A) 2xOpen/2xClose	4pcs. SPDT (250VAC/16A) 2xOpen/2xClose	4pcs. SPDT (250VAC/16A) 2xOpen/2xClose
Torque Switches		--	2pcs. SPDT (250VAC/16A) 1xOpen/1xClose	2pcs. SPDT (250VAC/16A) 1xOpen/1xClose	2pcs. SPDT (250VAC/16A) 1xOpen/1xClose
Wiring 1phase		ITQ0100-70000-F	ITQ0160-70000-F	ITQ0240-70000-F	ITQ0350-70000-G
Wiring 1phase + RPC Module		ITQ0100-70500-F	ITQ0160-70500-F	ITQ0240-70500-F	ITQ0350-70500-G
Wiring 3phase		ITQ0100-80000-F	ITQ0160-80000-F	ITQ0240-80000-F	ITQ0350-80000-G
Wiring 24V		ITQ0100-90000-F	ITQ0160-90000-F	ITQ0240-90000-F	ITQ0350-90000-G

1) 33sec with 24VDC power supply

2) 34sec. with 24VDC power supply

3) 31sec. with 24VDC power supply

4) Ambient temperature for basic actuator, with DMRC or RPC module -10°C up to +60°C

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