

Sun
yeh



2012

**Quarter-Turn
Electric
Actuator**





General Information

Enclosure :

- IP67 、 NEMA 4X : Water-proof and dust-proof enclosure.
- Material : Dry powder coating aluminum alloy.

Motor :

- Standard extended duty cycle induction motor.
F (Standard) or H (Optional) insulation class for all models.
- Built-in thermal protection prevents motor burning out.
AC motor : $125 \pm 5^{\circ}\text{C} / 257 \pm 9^{\circ}\text{F}$ DC motor : $90 \pm 5^{\circ}\text{C} / 194 \pm 9^{\circ}\text{F}$

Duty Cycle :

- OM-1~OM-13 : 30% duty cycle (Standard Model)
- Extended duty cycle : (Optional)
OM-1~OM-8 : 75% duty cycle
OM-9~OM-13 : 50% duty cycle

Position Indicator :

- All models have continuous mechanism position indicator on the top of actuator cover.



Manual Override :

- Non-clutch design, the manual operation can be operated without any lever, clutch or brake upon power outage.
- When electric motor is operating, hand-wheel won't rotate for personal safety purpose.

Gear Train :

- High alloy steel gear trains provide self-locking function to avoid valve back drive.
- Gear trains have been already lubricated sufficiently with anti-high temperature lubricant at the factory.

Working Conditions :

- Ambient temperature : $-30^{\circ}\text{C} \sim +65^{\circ}\text{C}$ / $-22^{\circ}\text{F} \sim +149^{\circ}\text{F}$
- The humidity : 30% ~ 95%

Certificates :

- CE
- CSA (Conforming to the test standard of outdoor usage.)
- RoHS Compliance



Selection Steps

a. Before mounting actuator, verify that the torque requirement of valve is less than the output torque of the actuator. (The suggested safety factor is 1.3.)

For example :

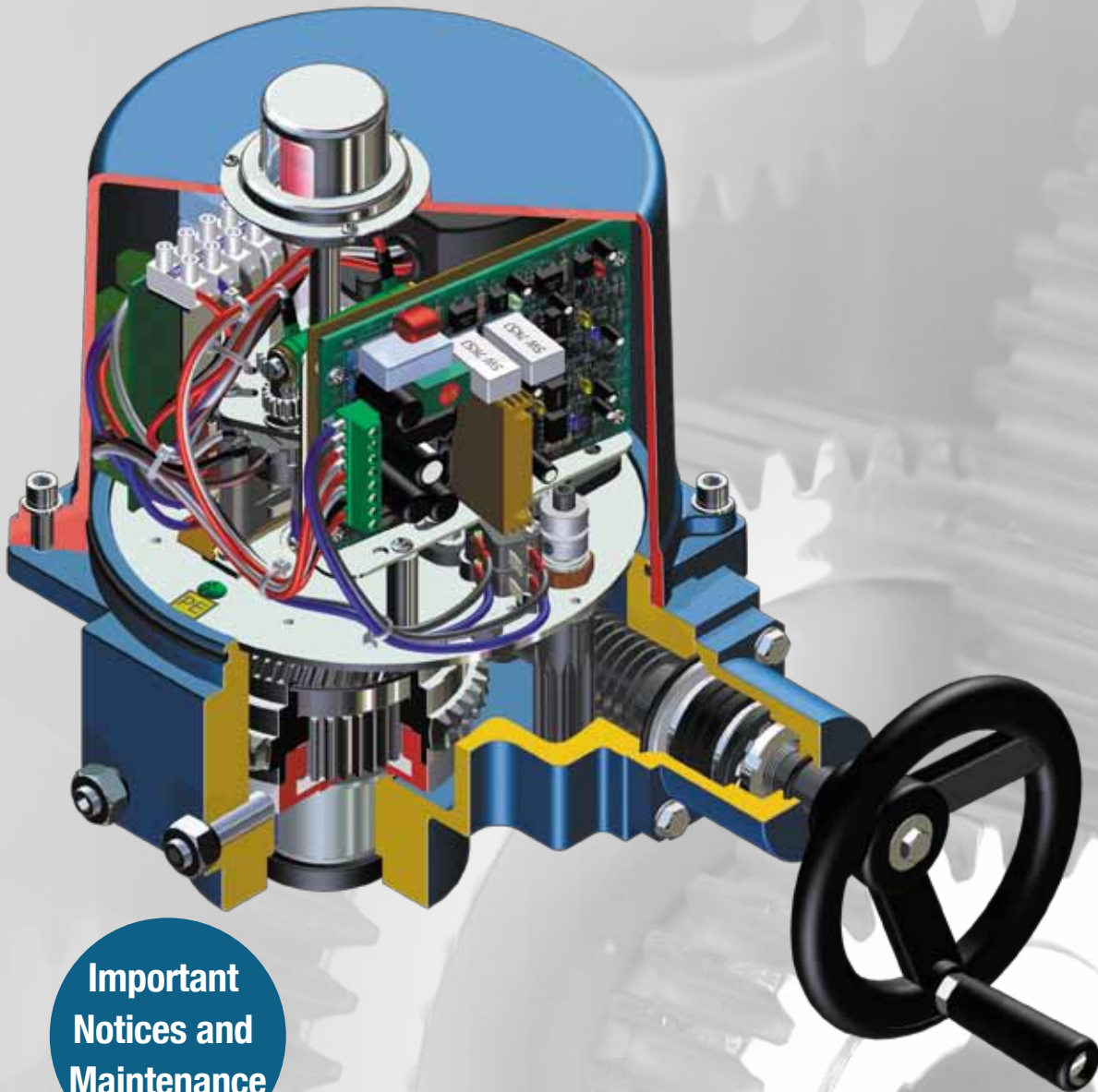
If the maximum torque of 5" valve is 80Nm. → 80×1.3 (safety factor) = 104Nm
 $104\text{Nm} < 150\text{Nm}$ (OM-3) → OK!
 $104\text{Nm} > 90\text{Nm}$ (OM-2) → NO!

b. Check that output shaft adaptor fits stem of valve before inserting into actuator. If not, please apply suitable adaptor or mounting kit.

Specifications

Model No.	Max Torque		Weight		Manual Override
	N.m	lb.in	Kg	lb	
OM-A	50	443	3	6.61	N/A
OM-A-M	50	443	3	6.61	Lever
OM-1	35	310	2	4.41	Hand-Wheel
BM-2	120	1063	5.5	12.13	
OM-2	90	797	11	24.25	
OM-3	150	1328	11	24.25	
OM-4	400	3542	20	44.09	
OM-5	500	4427	20	44.09	
OM-6	650	5756	20	44.09	
OM-7	1000	8855	32	70.55	
OM-8	1500	13282	32	70.55	
OM-9	2000	17709	71	156.53	
OM-10	2500	22137	71	156.53	
OM-11	3000	26564	72	158.73	
OM-12	3500	30991	72	158.73	
OM-13	4500	39846	106	233.69	

Model No.	Mounting Flange (ISO 5211)	Shaft		Depth		Key			
		mm	inch	mm	inch	mm	inch		
OM-A		F07 / F05	17	0.67	20	0.78	N/A		
OM-A-M		F07 / F05	17	0.67	20	0.78			
OM-1		F05 / F03	14	0.55	17	0.67			
BM-2		F07	22	0.87	30	1.18			
OM-2		F07	22	0.87	30	1.18			
OM-3		F07	22	0.87	30	1.18			
OM-4		F10	35	1.38	40	1.57			
OM-5		F10	35	1.38	40	1.57			
OM-6		F10	35	1.38	40	1.57			
OM-7		F14 or F12	35	1.38	60	2.36		10 × 10	0.39 × 0.39
OM-8		F14 or F12	35	1.38	60	2.36		10 × 10	0.39 × 0.39
OM-9		F16	75	2.95	100	3.94		12 × 10	0.47 × 0.39
OM-10		F16	75	2.95	100	3.94		12 × 10	0.47 × 0.39
OM-11		F16	75	2.95	100	3.94	12 × 10	0.47 × 0.39	
OM-12		F16	75	2.95	100	3.94	12 × 10	0.47 × 0.39	
OM-13		F16 / F25	72	2.83	110	4.33	20 × 12	0.79 × 0.47	



Important Notices and Maintenance

- Check for correct voltage prior to wiring.
- Turn power off before servicing or for maintenance purpose.
- Use sealant to seal conduit connections after wiring to prevent dusting or water contamination.
- The angle of electric actuator installation must be between 0~180 degree. Do not install upside down or below the horizontal.
- When more than one electric actuator needs to operate simultaneously, please connect with the individual cables.
- Not intended for vacuum spaces and avoid installing near explosive atmospheres.
- Actuators should be placed at clean and dry place for storage, and protected with outer carton from being affected by great temperature difference or serious vibration.
- Connect the ground wire to PE inside the electric actuator.
- The warranty period of all products is one year.



Option Items

Space heater

A space heater can increase the internal temperature and keep dry inside actuator to avoid the freezing lubricant and moisture causing actuator failure under low temperature or high humidity. Heater is not recommended if the ambient temperature is above 35°C/95°F. However, when the temperature varies much from day to night or between summer and winter, heater and thermostat (25±5°C/77±9°F) are recommended.



AC/DC 24V AC 220V AC 110V AC 380V~440V/3PH

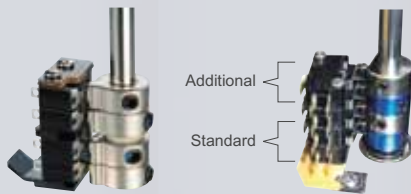
Heater thermostat

The option can switch the heater off when the temperature inside the actuator is over 25°C/77°F.



Additional limit switches

The standard model equips with the 1st & 2nd switches for fully-open and fully-closed. The option consists of the 3rd & 4th auxiliary switches which provide dry contacts for fully-open and fully-closed.



OM-1, OM-A, OM-A-M

OM-2~OM-13

Current position transmitter

The option can provide 4-20mA output signal for position indicator and etc.



OM-1, OM-A, OM-A-M
The picture is based on DC 24V

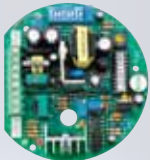


OM-2~OM-13
The picture is based on AC 110/220V

Modulating controller

Actuator can be operated according to input signal and provide the output signal for indicator.

Input signal : 4-20mA, 1-5V, 2-10V Output signal : 4-20mA, 2-10V



OM-1, OM-A, OM-A-M



OM-2~OM-13

The pictures are based on AC 110/220V

75% duty cycle (IEC standard)

The option is suggested for higher starting frequency.



OM1~AM : 75% duty cycle



OM-2~OM-8 : 75% duty cycle
OM-9~OM-13 : 50% duty cycle

The pictures are based on AC 110/220V

Potentiometer unit

The option can be ordered with On/Off actuators. The selection has 1k or 5k ohm resistance values. It provides feedback signal for position indicator.



OM-1, OM-A, OM-A-M



OM-2~OM-13

Local control unit



with lock



without lock
(standard)

The option can be used in field control. It provides Local/Remote selection switches and Open/Close selection switches. It is available for OM-2 to OM-13 actuators and must be ordered with actuator.

Torque switches

The option can provide over-load protection. It is available for OM-2 to OM-13 actuators, and must be ordered with actuator.



Adjustable speed board

The option can adjust the actuator speed (running time) from standard to 30s, 60s and so on (Max. 200s) according to user's need. It is available for OM-2 to OM-13 AC 110/220V, 1-PH actuators.



Wiring box

The option can be connected all wires by the user without removing actuator cover and it is available for OM-2 to OM-13 actuators.

Chain wheel

The option can convert the hand-wheel override to a chain driven override in application of actuator mounted at a distance above the floor. It is available for OM-2 to OM-13 actuators.



Conduit entrance

Standard : 1/2" PS
Optional : 3/4" PF
1/2" NPT
M20



Enclosure

Nylon coating
E.D. coating
Epoxy coating

Motor

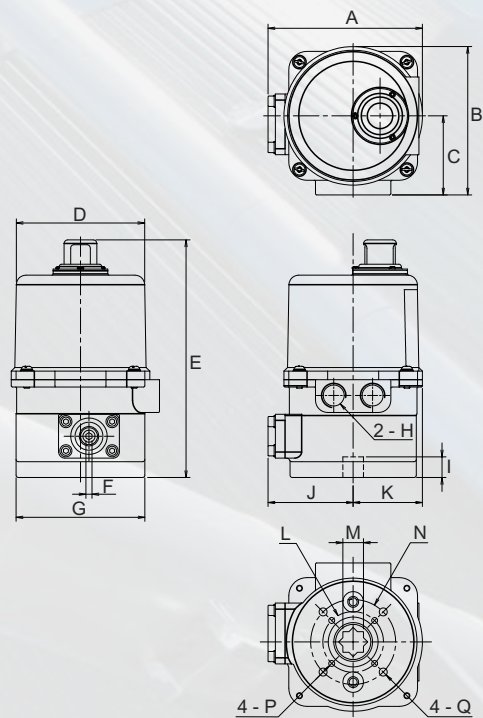
Motor insulation class :
Standard: F class
Optional: H class

Various voltage

AC/DC 12V
AC/DC 24V
AC 110/220V, 1-Phase
AC 220/380/440V, 3-Phase



Outline Dimensions



mm ▾

Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	Flange Type
Model No.																	
OM-A	114	122	65	Ø106	196	-	Ø106	1/2PS	20	57	57	Ø50	17	Ø70	M6*1.0	M8*1.25	F05 / F07
OM-A-M	127	122	65	Ø106	196	5	Ø102	1/2PS	20	70	57	Ø50	17	Ø70	M6*1.0	M8*1.25	F05 / F07

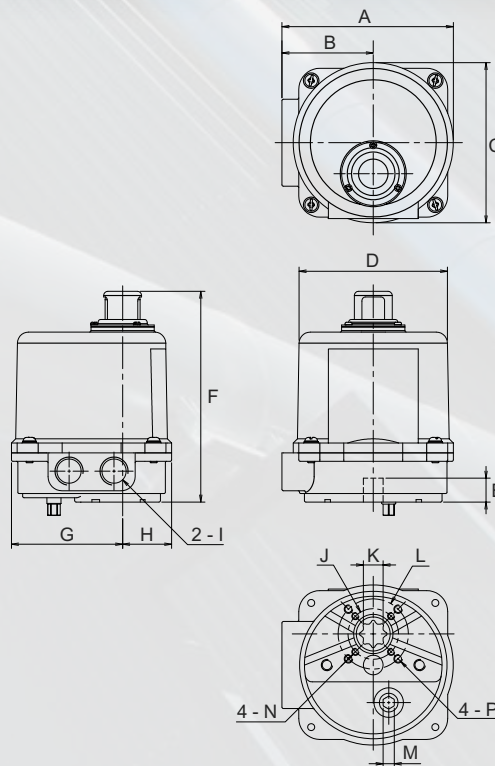
inch ▾

- With modulation card E=229
- No mechanical stops

Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	Flange Type
Model No.																	
OM-A	4.49	4.8	2.56	Ø4.17	7.71	-	Ø4.173	1/2PS	0.78	2.24	2.24	Ø1.97	0.67	Ø2.76	M6*1.0	M8*1.25	F05 / F07
OM-A-M	5.0	4.8	2.56	Ø4.17	7.71	0.2	Ø4.016	1/2PS	0.78	2.76	2.24	Ø1.97	0.67	Ø2.76	M6*1.0	M8*1.25	F05 / F07

- With modulation card E=9.01
- No mechanical stops

OM-A, OM-A-M



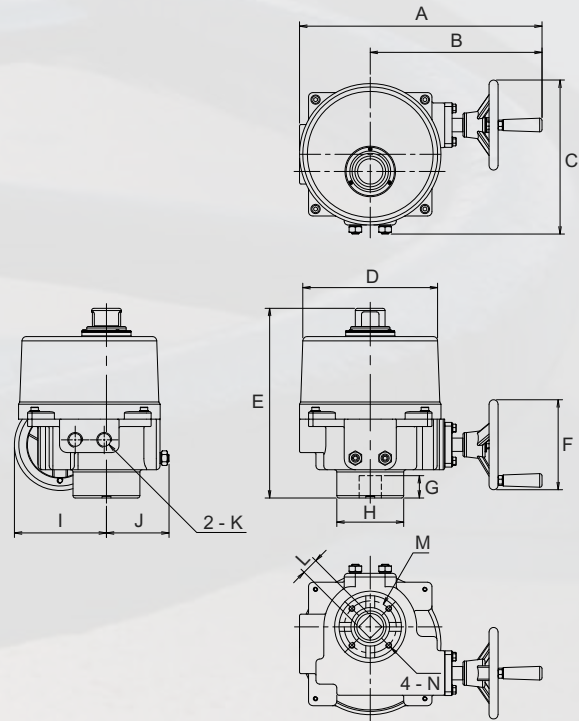
Model No.	A	B	C	D	E	F	G	H	I	J	K _{Max}	L	M	N	P	Flange Type
OM-1	122	65	114	∅106	17	150	79	35	1/2PS	∅36	14	∅50	8	M5*0.8	M6*1.0	F03 / F05

- Option : (1)K=11 (2)K=9
- With modulating card F=183
- No mechanical stops

Model No.	A	B	C	D	E	F	G	H	I	J	K _{Max}	L	M	N	P	Flange Type
OM-1	4.80	2.56	4.49	∅4.17	0.67	5.9	3.11	1.38	1/2PS	∅1.42	0.551	∅1.968	0.314	M5*0.8	M6*1.0	F03 / F05

- Option : (1)K=0.43 (2)K=0.35
- With modulating card F=7.2
- No mechanical stops

OM-1



Model No.	A	B	C	D	E	F	G	H	I	J	K	L Max	M	N	Flange Type
OM-2~OM-3	326	231	207	Ø181	255	Ø121	30	Ø90	124	84	1/2PS	22	Ø70	M8*1.25	F07

- with DC motor E=289 (apply to DC model or 75% duty cycle)
- Note: with torque switch A=361

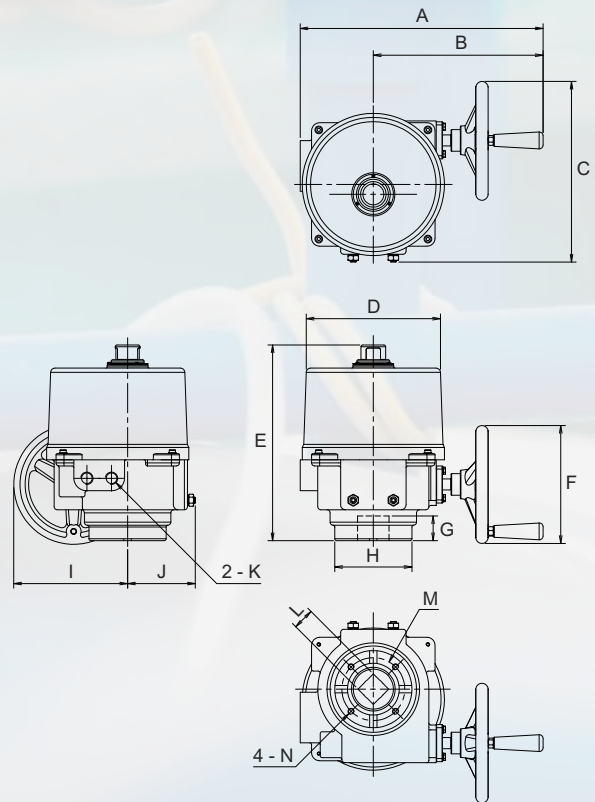
Model No.	A	B	C	D	E	F	G	H	I	J	K	L Max	M	N	Flange Type
OM-2~OM-3	12.83	9.09	8.15	Ø7.13	10.04	Ø4.76	1.18	Ø3.54	4.88	3.31	1/2PS	0.866	Ø2.755	M8*1.25	F07

- with DC motor E=11.38 (apply to DC model or 75% duty cycle)
- Note: with torque switch A=14.21

OM-2~OM-3



Outline Dimensions



mm ▼

Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Flange Type
OM-4~OM-6	394	275	292.5	Ø217	317	Ø191	40	Ø125	184	110	1/2PS	35	Ø102	M10*1.5	F10

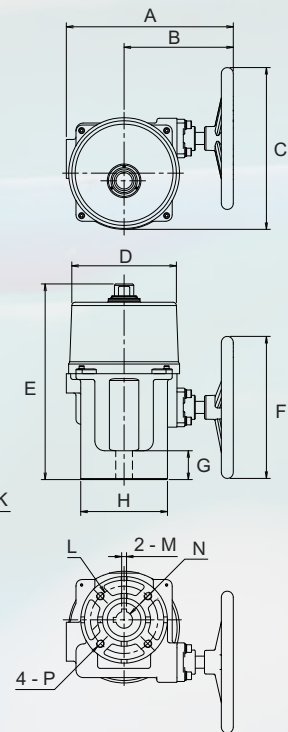
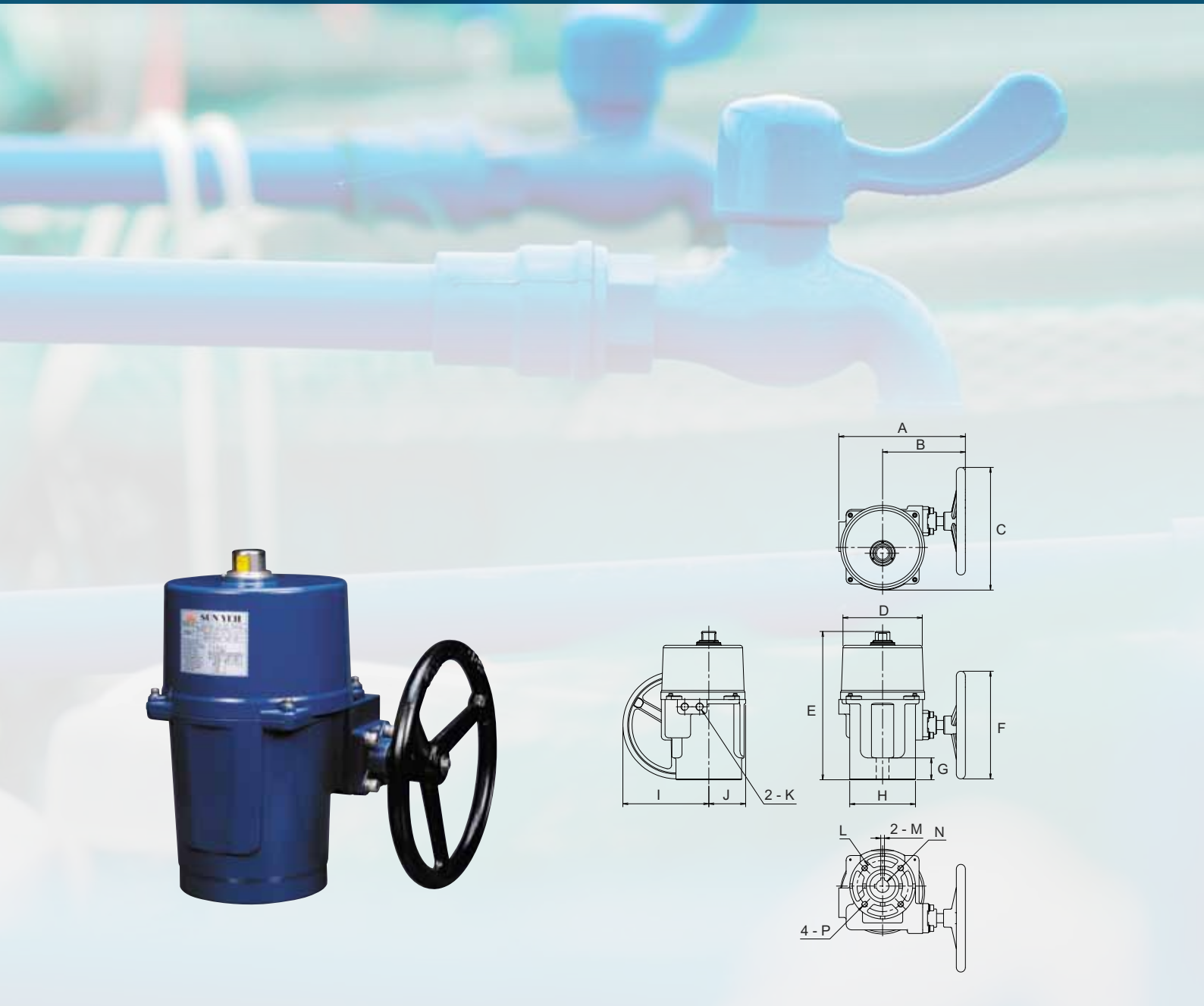
• Note: with torque switch A=460

inch ▼

Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Flange Type
OM-4~OM-6	15.51	10.83	11.515	Ø8.54	12.48	Ø7.52	1.57	Ø4.92	7.24	4.33	1/2PS	1.378	Ø4.015	M10*1.5	F10

• Note: with torque switch A=18.11

OM-4~OM-6



Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N _{Max}	P	Flange Type
OM-7~OM-8	347	227	336	Ø217	406	Ø295	60	Ø180	235	101	1/2PS	Ø125	10	Ø35	M12*1.75	F12
	347	227	336	Ø217	406	Ø295	60	Ø180	235	101	1/2PS	Ø140	10	Ø35	M16*2.0	F14

● Note: with torque switch A=435

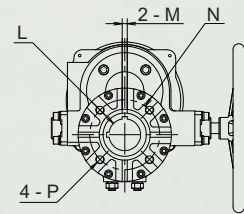
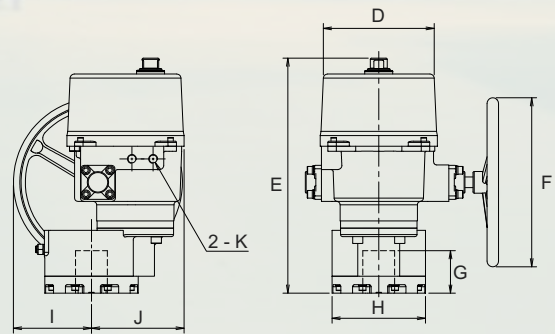
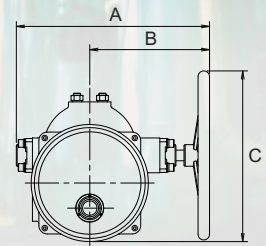
Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N _{Max}	P	Flange Type
OM-7~OM-8	13.66	8.94	13.23	Ø8.54	15.98	Ø11.61	2.36	Ø7.09	9.25	3.98	1/2PS	Ø4.92	0.393	Ø1.378	M12*1.75	F12
	13.66	8.94	13.23	Ø8.54	15.98	Ø11.61	2.36	Ø7.09	9.25	3.98	1/2PS	Ø5.51	0.393	Ø1.378	M16*2.0	F14

● Note: with torque switch A=17.13

OM-7~OM-8



Outline Dimensions



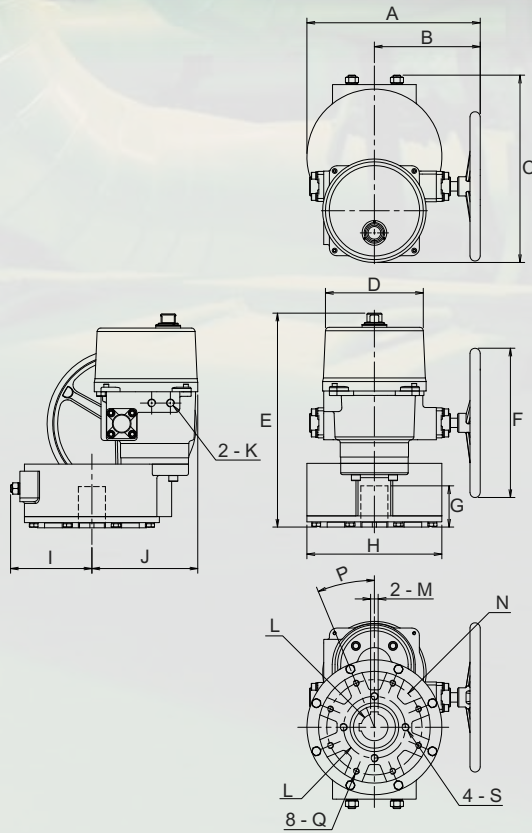
mm ▾

Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Flange Type
OM-9~OM-12	455	282	402	Ø261	554	Ø398	100	Ø220	184	218	1/2PS	Ø75	12	Ø165	M20*2.5	F16

inch ▾

Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Flange Type
OM-9~OM-12	17.91	11.1	15.83	Ø10.28	21.81	Ø15.67	3.94	Ø8.66	7.24	8.58	1/2PS	Ø2.95	0.472	Ø6.496	M20*2.5	F16

OM-9~OM-12



Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P ISO 5211	Q	R	S	Flange Type
OM-13	462	282	500	Ø261	571	Ø398	110	Ø360	217	283	1/2PS	Ø72	20*12	Ø254	22.5°	M16*2.0	Ø165	M20*2.5	F16 / F25

Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P ISO 5211	Q	R	S	Flange Type
OM-13	18.19	11.1	19.69	Ø10.28	22.48	Ø15.67	4.33	Ø14.17	8.54	11.14	1/2PS	Ø2.834	0.787*0.472	Ø10	22.5°	M16*2.0	Ø6.5	M20*2.5	F16 / F25

OM-13



Motor Data

Run : Full Load Ampere
 Lock : Locked Rotor Ampere

AC/DC 12V/24V, 1-Phase

Model	Max Torque		Speed (Sec/90°)	Power (Watts)	Current AC/DC 12V			Current AC/DC 24V		
	Nm	lb-in			Run	Start	Lock	Run	Start	Lock
BM-2	-	-	-	-	-	-	-	-	-	-
OM-A	50	443	20s	10W	1.3A	1.5A	2.8A	0.8A	0.9A	1.6A
OM-A-M	50	443	20s	10W	1.3A	1.5A	2.8A	0.8A	0.9A	1.6A
OM-1	35	310	15s	10W	1.9A	2.0A	2.8A	1.1A	1.1A	1.6A
OM-2	90	797	15s	40W	3.4A	5.2A	16.5A	2.2A	4.5A	14.5A
OM-3	150	1328	22s	40W	4.4A	4.9A	16.5A	2.4A	5.0A	14.5A
OM-4	400	3542	16s	80W	16.1A	16.1A	33.0A	8.5A	9.2A	30.0A
OM-5	500	4427	22s	80W	14.1A	13.5A	33.0A	7.5A	9.0A	30.0A
OM-6	650	5756	28s	80W	12.3A	12.5A	33.0A	7.0A	8.5A	30.0A
OM-7	1000	8855	46s	80W	-	-	-	6.8A	7.8A	30.0A
OM-8	1500	13282	46s	80W	-	-	-	8.1A	8.0A	30.0A
OM-9	2000	17709	58s	80W	-	-	-	8.8A	11.0A	26.0A
OM-10	2500	22137	58s	80W	-	-	-	11.8A	11.0A	26.0A
OM-11	3000	26564	58s	220W	-	-	-	15.1A	11.0A	33.0A
OM-12	3500	30991	58s	220W	-	-	-	17.8A	12.0A	33.0A
OM-13	-	-	-	-	-	-	-	-	-	-

AC 110V/220V, 1-Phase

Model	Max Torque		Speed (Sec/90°)		Power (Watts)	Current AC 110V/120V			Current AC 220V/240V		
	Nm	lb-in	60 Hz	50 Hz		Run	Start	Lock	Run	Start	Lock
BM-2	120	1063	8s	10s	40W	1.3A	1.6A	1.6A	0.6A	0.9A	0.9A
OM-A	50	443	20s	24s	10W	0.6A	0.6A	0.7A	0.3A	0.4A	0.5A
OM-A-M	50	443	20s	24s	10W	0.6A	0.6A	0.7A	0.3A	0.4A	0.5A
OM-1	35	310	12s	13s	10W	0.6A	0.6A	0.7A	0.3A	0.4A	0.4A
OM-2	90	797	15s	17s	40W	1.0A	1.8A	1.6A	0.5A	0.8A	0.9A
OM-3	150	1328	22s	26s	40W	1.2A	1.8A	1.6A	1.0A	1.2A	0.9A
OM-4	400	3542	16s	18s	80W	1.9A	3.8A	3.6A	1.1A	2.0A	2.2A
OM-5	500	4427	22s	25s	80W	2.0A	3.8A	3.6A	1.1A	2.0A	2.2A
OM-6	650	5756	28s	31s	80W	2.1A	3.8A	3.6A	1.1A	2.0A	2.2A
OM-7	1000	8855	46s	55s	120W	3.1A	8.5A	9.0A	1.4A	4.1A	5.0A
OM-8	1500	13282	46s	55s	120W	3.3A	9.0A	9.0A	1.6A	4.4A	5.0A
OM-9	2000	17709	58s	70s	180W	3.3A	5.8A	5.9A	2.1A	3.8A	3.6A
OM-10	2500	22137	58s	70s	180W	4.0A	6.5A	5.9A	2.3A	4.0A	3.6A
OM-11	3000	26564	58s	70s	180W	4.5A	3.5A	5.9A	2.5A	4.2A	3.6A
OM-12	3500	30991	58s	70s	220W	4.0A	8.0A	7.5A	2.4A	4.4A	4.8A
OM-13	4500	39846	80s	95s	220W	4.2A	8.0A	7.5A	2.4A	4.8A	4.8A

Line of rugged industrial electric actuator in the aluminum case. IP67 alternative IP68 possible, valves interface according to ISO5211. All models have a permanent mechanical position indicator in the casing cover of the actuator. Manual emergency override (except OOMA)

article	spezifikation	
<i>Incl. Heater – Heating Thermostat – Additional Limit Switches</i>		
<i>M20x1,5 conduit entrance</i>		
OOM1-H-ABC11	24V AC/DC	35Nm
OOM1-C-ABC11	110V AC	35Nm
OOM1-E-ABC11	230V AC	35Nm
OOM1-G-ABC11	380V AC 3PH	35Nm
OOMA-H-ABC11	24V AC/DC	50Nm
OOMA-C-ABC11	110V AC	50Nm
OOMA-E-ABC11	230V AC	50Nm
OOMA-G-ABC11	380V AC 3PH	50Nm
OOMAM-H-ABC11	24V AC/DC	50Nm
OOMAM-C-ABC11	110V AC	50Nm
OOMAM-E-ABC11	230V AC	50Nm
OOMAM-G-ABC11	380V AC 3PH	50Nm
OOMF-H-ABC11	24V AC/DC	65Nm
OOMF-C-ABC11	110V AC	65Nm
OOMF-E-ABC11	230V AC	65Nm
OOMF-G-ABC11	380V AC 3PH	65Nm
OOM2-H-ABC11	24V AC/DC	90Nm
OOM2-C-ABC11	110V AC	90Nm
OOM2-E-ABC11	230V AC	90Nm
OOM2-G-ABC11	380V AC 3PH	90Nm
OOMG-H-ABC11	24V AC/DC	120Nm
OOMG-C-ABC11	110V AC	120Nm
OOMG-E-ABC11	230V AC	120Nm
OOMG-G-ABC11	380V AC 3PH	120Nm

Line of rugged industrial electric actuator in the aluminum case. IP67 alternative IP68 possible, valves interface according to ISO5211. All models have a permanent mechanical position indicator in the casing cover of the actuator. Manual emergency override (except OOMA)

article	spezifikation	
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Incl. Heater – Heating Thermostat – Additional Limit Switches – Torque Switches
M20x1,5 conduit entrance

OOM3-H-ABCP111	24V AC/DC	150Nm
OOM3-C-ABCP111	110V AC	150Nm
OOM3-E-ABCP111	230V AC	150Nm
OOM3-G-ABCP111	380V AC 3PH	150Nm
OOM4-H-ABCP211	24V AC/DC	400Nm
OOM4-C-ABCP211	110V AC	400Nm
OOM4-E-ABCP211	230V AC	400Nm
OOM4-G-ABCP211	380V AC 3PH	400Nm
OOM5-H-ABCP211	24V AC/DC	500Nm
OOM5-C-ABCP211	110V AC	500Nm
OOM5-E-ABCP211	230V AC	500Nm
OOM5-G-ABCP211	380V AC 3PH	500Nm
OOM6-H-ABCP211	24V AC/DC	650Nm
OOM6-C-ABCP211	110V AC	650Nm
OOM6-E-ABCP211	230V AC	650Nm
OOM6-G-ABCP211	380V AC 3PH	650Nm
OOM7-H-ABCP311	24V AC/DC	1000Nm
OOM7-C-ABCP311	110V AC	1000Nm
OOM7-E-ABCP311	230V AC	1000Nm
OOM7-G-ABCP311	380V AC 3PH	1000Nm
OOM8-H-ABCP311	24V AC/DC	1500Nm
OOM8-C-ABCP311	110V AC	1500Nm
OOM8-E-ABCP311	230V AC	1500Nm
OOM8-G-ABCP311	380V AC 3PH	1500Nm
OOM9-H-ABCP311	24V AC/DC	2000Nm
OOM9-C-ABCP311	110V AC	2000Nm
OOM9-E-ABCP311	230V AC	2000Nm
OOM9-G-ABCP311	380V AC 3PH	2000Nm
OOM10-H-ABCP311	24V AC/DC	2500Nm
OOM10-C-ABCP311	110V AC	2500Nm
OOM10-E-ABCP311	230V AC	2500Nm
OOM10-G-ABCP311	380V AC 3PH	2500Nm
OOM11-H-ABCP311	24V AC/DC	3000Nm
OOM11-C-ABCP311	110V AC	3000Nm
OOM11-E-ABCP311	230V AC	3000Nm
OOM11-G-ABCP311	380V AC 3PH	3000Nm
OOM12-H-ABCP311	24V AC/DC	3500Nm
OOM12-C-ABCP311	110V AC	3500Nm
OOM12-E-ABCP311	230V AC	3500Nm
OOM12-G-ABCP311	380V AC 3PH	3500Nm
OOM13-H-ABCP311	24V AC/DC	4000Nm
OOM13-C-ABCP311	110V AC	4000Nm
OOM13-E-ABCP311	230V AC	4000Nm
OOM13-G-ABCP311	380V AC 3PH	4000Nm

Line of rugged industrial electric actuator in the aluminum case. IP67 alternative IP68 possible, valves interface according to ISO5211. All models have a permanent mechanical position indicator in the casing cover of the actuator. Manual emergency override (except OOMA)

article	spezifikation	
Actuators without options		
OOM1-H	24V AC/DC	35Nm
OOM1-C	110V AC	35Nm
OOM1-E	230V AC	35Nm
OOM1-G	380V AC 3PH	35Nm
OOMA-H	24V AC/DC	50Nm
OOMA-C	110V AC	50Nm
OOMA-E	230V AC	50Nm
OOMA-G	380V AC 3PH	50Nm
OOMAM-H	24V AC/DC	50Nm
OOMAM-C	110V AC	50Nm
OOMAM-E	230V AC	50Nm
OOMAM-G	380V AC 3PH	50Nm
OOMF-H	24V AC/DC	65Nm
OOMF-C	110V AC	65Nm
OOMF-E	230V AC	65Nm
OOMF-G	380V AC 3PH	65Nm
OOM2-H	24V AC/DC	90Nm
OOM2-C	110V AC	90Nm
OOM2-E	230V AC	90Nm
OOM2-G	380V AC 3PH	90Nm
OOMG-H	24V AC/DC	120Nm
OOMG-C	110V AC	120Nm
OOMG-E	230V AC	120Nm
OOMG-G	380V AC 3PH	120Nm
OOM3-H	24V AC/DC	150Nm
OOM3-C	110V AC	150Nm
OOM3-E	230V AC	150Nm
OOM3-G	380V AC 3PH	150Nm
OOM4-H	24V AC/DC	400Nm
OOM4-C	110V AC	400Nm
OOM4-E	230V AC	400Nm
OOM4-G	380V AC 3PH	400Nm
OOM5-H	24V AC/DC	500Nm
OOM5-C	110V AC	500Nm
OOM5-E	230V AC	500Nm
OOM5-G	380V AC 3PH	500Nm

Line of rugged industrial electric actuator in the aluminum case. IP67 alternative IP68 possible, valves interface according to ISO5211. All models have a permanent mechanical position indicator in the casing cover of the actuator. Manual emergency override (except OOMA)

article	spezifikation	
OOM6-H	24V AC/DC	650Nm
OOM6-C	110V AC	650Nm
OOM6-E	230V AC	650Nm
OOM6-G	380V AC 3PH	650Nm
OOM7-H	24V AC/DC	1000Nm
OOM7-C	110V AC	1000Nm
OOM7-E	230V AC	1000Nm
OOM7-G	380V AC 3PH	1000Nm
OOM8-H	24V AC/DC	1500Nm
OOM8-C	110V AC	1500Nm
OOM8-E	230V AC	1500Nm
OOM8-G	380V AC 3PH	1500Nm
OOM9-H	24V AC/DC	2000Nm
OOM9-C	110V AC	2000Nm
OOM9-E	230V AC	2000Nm
OOM9-G	380V AC 3PH	2000Nm
OOM10-H	24V AC/DC	2500Nm
OOM10-C	110V AC	2500Nm
OOM10-E	230V AC	2500Nm
OOM10-G	380V AC 3PH	2500Nm
OOM11-H	24V AC/DC	3000Nm
OOM11-C	110V AC	3000Nm
OOM11-E	230V AC	3000Nm
OOM11-G	380V AC 3PH	3000Nm
OOM12-H	24V AC/DC	3500Nm
OOM12-C	110V AC	3500Nm
OOM12-E	230V AC	3500Nm
OOM12-G	380V AC 3PH	3500Nm
OOM13-H	24V AC/DC	4000Nm
OOM13-C	110V AC	4000Nm
OOM13-E	230V AC	4000Nm
OOM13-G	380V AC 3PH	4000Nm

Line of rugged industrial electric actuator in the aluminum case. IP67 alternative IP68 possible, valves interface according to ISO5211. All models have a permanent mechanical position indicator in the casing cover of the actuator. Manual emergency override (except OOMA)

article	spezifikation	
Optionen		for Models
SYOM-A	Innenraumheizung <i>Space Heater</i>	Alle Modelle/all models
SYOM-B	Heizungsthermostat <i>Heater Thermostat</i>	Alle Modelle/all models
SYOM-C	Zusätzliche Endschalter <i>Additional Limit Switches</i>	Alle Modelle/all models
SYOM-P1	Drehmomentschalter <i>Torque Switches</i>	OMF bis/to OM3 (incl. OMG)
SYOM-P2		OM4 bis/to OM6 – incl.
SYOM-P3		OM7 bis/to OM13 – incl.
SYOM-D	Stellungsrückmeldung 4-20mA <i>Current Position Transmitter</i>	Alle Modelle
SYOM-E1.1	Positionierer 4-20mA	OMA / OMAM / OM1
SYOM-E1.2	<i>Modulating Controller</i>	OMF bis/to OM13
SYOM-E2.1	Positionierer 0-10V	OMA / OMAM / OM1
SYOM-E2.2	<i>Modulating Controller</i>	OMF bis/to OM13
SYOM-F1	75% Einschaltdauer	OMA / OMAM / OM1
SYOM-F2	<i>75% Duty cycle IEC Standard</i>	OMF bis/to OM13
SYOM-G1.1	Potentiometer 1K <i>Potentiometer</i>	OMA / OMAM / OM1
SYOM-G1.2	Potentiometer 1K <i>Potentiometer</i>	OM2 bis/to OM13
SYOM-G2.1	Potentiometer 5K <i>Potentiometer</i>	OMA / OMAM / OM1
SYOM-G2.2	Potentiometer 5K <i>Potentiometer</i>	OM2 bis/to OM13
SYOM-H1	Zwischenkreisverschaltung	OMA / OMAM / OM1
SYOM-H2	<i>Coupling Wiring</i>	OMF bis/to OM-13
SYOM-I1		M20
SYOM-I2	Kabeldurchführung	1/2" PS
SYOM-I3	<i>Conduit Entrance</i>	3/4" PF
SYOM-I4		1/2" NPT
SYOM-L	Motorisoliationsklasse <i>Motor Insulation H class</i>	OM-A bis/to OM-3
SYOM-N1	Lokale Steuereinheit <i>Local Control Unit 1 Phase</i>	OMA / OMAM / OM1
SYOM-N2		OMF / OM2 / OMG
SYOM-N3		OM4 / OM5 / OM6
SYOM-N4		OM7 / OM8
SYOM-N5		OM9 bis OM13
SYOM-O1	Lokale Steuereinheit <i>Local Control Unit 3 Phasen</i>	OMF / OM2 / OMG / OM3
SYOM-O2		OM4 / OM5 / OM6
SYOM-O3		OM7 / OM8
SYOM-O4		OM9 bis OM13
SYOM-Q1	Kettenrad <i>Chainwheel</i>	OMF / OM2 / OMG / OM3
SYOM-Q2		OM4 / OM5 / OM6
SYOM-Q3		OM7 / OM8
SYOM-Q4		OM9 bis OM13
SYOM-R1	Kette (pro Meter)	OMF bis/to OM6 (incl. OMG)
SYOM-R2	<i>Chain (per meter)</i>	OM7 bis/to OM13
SYOM-S1	Schutzklasse IP68	OMF bis OM- (incl. OMG)
SYOM-S2	<i>Water Proof Rating IP68</i>	OM4 bis/to OM6
SYOM-S3		OM7 / OM8
SYOM-T1	Anschlussdose	OMA / OMAM / OM1
SYOM-T2	<i>Wiring Box</i>	OMF bis/to OM13
SYOM-U	Stellzeit justierbar	OM2 bis/to OM13

Line of rugged industrial electric actuator in the aluminum case. IP67 alternative IP68 possible, valves interface according to ISO5211. All models have a permanent mechanical position indicator in the casing cover of the actuator. Manual emergency override (except OOMA)

article	spezifikation	
SYOM-J1.1		OM 1
SYOM-J1.2		OMA / OMAM
SYOM-J1.3	Epoxy Beschichtung	OM2-3
SYOM-J1.4	Epoxy coating	OM4-6
SYOM-J1.5		OM7-8
SYOM-J1.6		OM9-13
SYOM-K1.1	Edelstahl 316 Gehäuse	OM1
SYOM-K1.2	Stainless Steel 316 Housing	OM2-3
SYOM-K1.3		OM4-6



J+J[®] Deutschland GmbH
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2012

**Spring
Return
Actuator**





General Information

Standard Capability

- Duty cycle rating : 50% (Conform to IEC standard)
- Two-position control

Ambient Temperature Range

- Temperature : -30°C ~ +65°C / -22°F ~ +149°F
- Humidity : 30% ~ 95%

Enclosure

- IP67 、 NEMA 4X : Water-proof and dust-proof enclosure.
- Material : Dry powder coating aluminum alloy.

Lubrication

- Gear trains have been already lubricated sufficiently with anti-high temperature lubricant at the factory.

Position Indicator

- All models have continuous mechanism position indicator on the top of actuator cover.

Certificates

- CE
- CSA (Conforming to the test standard of outdoor usage.)
- RoHS Compliance

Specifications

Model	Max Torque		Power (Watts)	Weight				Standard Mounting				
	N.m	lb.in		Standard		W / Manual Override		Mounting Flange (ISO 5211)	Shaft		Depth Of Shaft	
				Kg	lb	Kg	lb		mm	inch	mm	inch
S500	50	443	50	27	60	37	82	F07	17	0.67	30	1.18
S1300	130	1151	130	57	126	74	163	F10	22	0.87	39	1.54
S2000	200	1771	130	95	209	135	298	F12	27	1.06	45	1.77
S2600	260	2302	130	95	209	135	298	F12	27	1.06	45	1.77

Important Notices and Maintenance

Manual Override

After using the manual override for positioning, the user must manually drive the actuator back to its fully-closed position before the actuator restarts. This is a safety feature.

- Check for correct voltage prior to wiring.
- Turn power off before servicing or for maintenance purpose.
- Use sealant to seal conduit connections after wiring to prevent dusting or water contamination.
- The angle of electric actuator installation must be between 0~180 degree. Do not install upside down or below the horizontal.
- Not intended for vacuum spaces and avoid installing near explosive atmospheres.
- Actuators should be placed at clean and dry place for storage, and protected with outer carton from being affected by great temperature difference or serious vibration.
- Connect the ground wire to PE inside the electric actuator.
- The warranty period is one year.

Option Items

Space heater

A space heater can increase the internal temperature and keep dry inside actuator to avoid the freezing lubricant and moisture causing actuator failure under low temperature or high humidity. Heater is not recommended if the ambient temperature is above 35°C/95°F. However, when the temperature varies much from day to night or between summer and winter, heater and thermostat (25±5°C/77±9°F) are recommended.



AC/DC 24V

AC 220V

AC 110V

AC 380V~440V/3PH

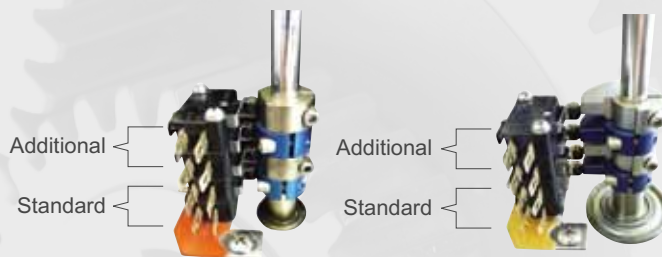
Heater thermostat

The option can switch the heater off when the temperature inside the actuator is over 25°C/77°F.



Additional limit switches

The standard model equips with the 1st & 2nd switches for fully-open and fully-closed. The option consists of the 3rd & 4th auxiliary switches which provide dry contacts for fully-open and fully-closed.



S500

S1300~S2600

Current position transmitter

The option can provide 4-20mA output signal and suit for two-position control units.



The picture is based on AC 110/220V

Floating controller

The actuator can be controlled by external controller to open, close and stop at any position between 0 and 90 degree and will fail clockwise to the end position on loss of power.

(Based on the standard running direction that the actuator fails clockwise on loss of power.)



The picture is based on AC 110/220V

Modulating controller

Actuator can be operated according to input signal and provide the output signal for feedback.

Input signal : 4-20mA, 1-5V, 2-10V
Output signal : 4-20mA, 2-10V



The picture is based on AC 110/220V

Operating direction

Standard : Fail clockwise on loss of power.
Optional : Fail counter-clockwise on loss of power.



Standard



Optional

Manual override



Standard :
Without manual override



Optional :
With manual override

Potentiometer unit (1K or 5K)



The option can be ordered with two-position control actuators. The selection has 1k or 5k ohm resistance values. It provides feedback signal for position indicator.

Various voltage

- AC/DC 24V
- AC 110/220V, 1-Phase
- AC 220/380/440V, 3-Phase

Conduit entrance

- Standard : 1/2" NPT
- Optional : 3/4" NPT
M20

Enclosure

Nylon coating
E.D. coating
Epoxy coating

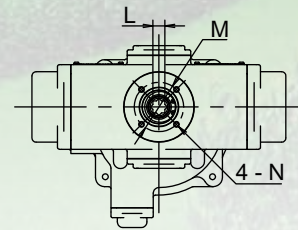
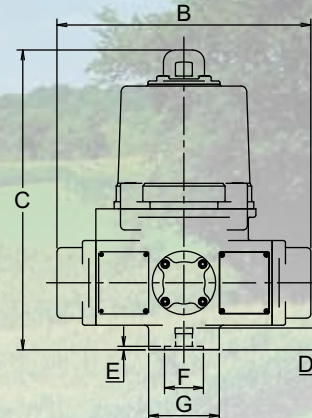
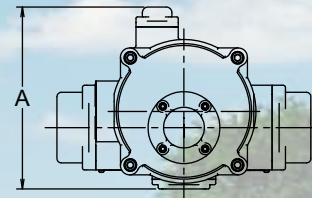
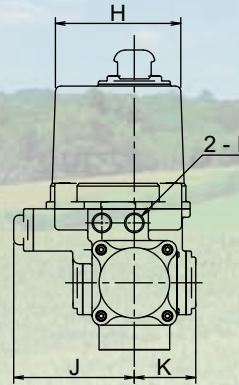


Outline Dimensions

- Running direction is based on viewing actuator from the top.
- Drawings are based on the standard running direction that the actuator fails clockwise on loss of power.



Standard



mm

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Flange Type
S500	258	360	425	31	5	Ø55	Ø100	Ø178	1/2"NPT	171	87	17	Ø70	M8*1.25	F07
S1300	365	462	503	41	5	Ø70	Ø140	Ø265	1/2"NPT	247	110	22	Ø102	M10*1.5	F10
S2000	438	600	577	46	6	Ø85	Ø170	Ø305	1/2"NPT	305	133	27	Ø125	M12*1.75	F12
S2600	438	600	577	46	6	Ø85	Ø170	Ø305	1/2"NPT	305	133	27	Ø125	M12*1.75	F12

C=462—S500 : With DC Power Supply C=462

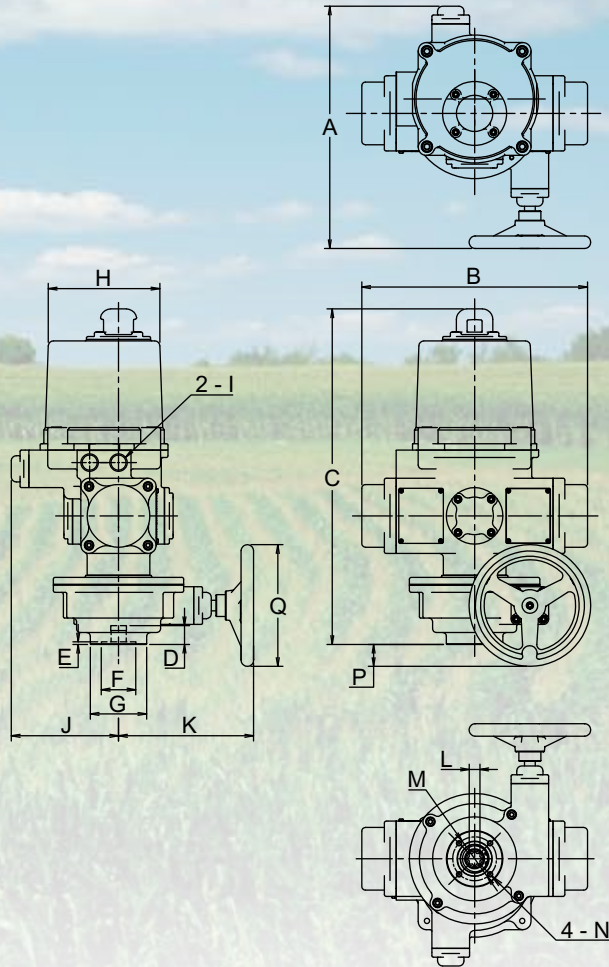
inch

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Flange Type
S500	10.157	14.173	16.732	1.220	0.197	Ø2.165	Ø3.937	Ø7.008	1/2"NPT	6.732	3.425	0.669	Ø2.756	M8*1.25	F07
S1300	14.370	18.189	19.803	1.614	0.197	Ø2.756	Ø5.511	Ø10.433	1/2"NPT	9.724	4.331	0.866	Ø4.016	M10*1.5	F10
S2000	17.244	23.622	22.717	1.811	0.236	Ø3.346	Ø6.693	Ø12.008	1/2"NPT	12.008	5.236	1.063	Ø4.921	M12*1.75	F12
S2600	17.244	23.622	22.717	1.811	0.236	Ø3.346	Ø6.693	Ø12.008	1/2"NPT	12.008	5.236	1.063	Ø4.921	M12*1.75	F12

C=462—S500 : With DC Power Supply C=18.189



W / Manual Override



mm

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	Flange Type
S500	387	360	535	30	4	Ø55	Ø90	Ø178	1/2"NPT	171	216	17	Ø70	M8*1.25	35	Ø194	F07
S1300	484	462	638	41	5	Ø70	Ø125	Ø265	1/2"NPT	247	237	22	Ø102	M10*1.5	68	Ø295	F10
S2000	589	600	732	45	5	Ø85	Ø150	Ø305	1/2"NPT	305	284	27	Ø125	M12*1.75	109	Ø398	F12
S2600	589	600	732	45	5	Ø85	Ø150	Ø305	1/2"NPT	305	284	27	Ø125	M12*1.75	109	Ø398	F12

C=462—S500 : With DC Power Supply C=572

inch

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	Flange Type
S500	15.236	14.173	21.063	1.181	0.157	Ø2.165	Ø3.543	Ø7.008	1/2"NPT	6.732	8.504	0.669	Ø2.756	M8*1.25	1.378	Ø7.638	F07
S1300	19.055	18.189	25.118	1.614	0.197	Ø2.756	Ø4.921	Ø10.433	1/2"NPT	9.724	9.331	0.866	Ø4.016	M10*1.5	2.677	Ø11.614	F10
S2000	23.189	23.622	28.819	1.772	0.197	Ø3.346	Ø5.906	Ø12.008	1/2"NPT	12.008	11.181	1.063	Ø4.921	M12*1.75	4.291	Ø15.669	F12
S2600	23.189	23.622	28.819	1.772	0.197	Ø3.346	Ø5.906	Ø12.008	1/2"NPT	12.008	11.181	1.063	Ø4.921	M12*1.75	4.291	Ø15.669	F12

C=462—S500 : With DC Power Supply C=22.520



Motor Data

Run : Full Load Ampere
 Lock : Locked Rotor Ampere

AC 110 / 120V, 1-Phase

Model	Operating Time (Sec / 90°)		Current (60Hz / 50Hz)			
			AC 110V		AC 120V	
	Motor(50Hz / 60Hz)	Spring	Run	Lock	Run	Lock
S500	7 / 9	3	1.0A / 1.3A	2.0A / 2.2A	1.0A / 1.3A	2.0A / 2.2A
S1300	7 / 9	8	2.6A / 4.5A	10A / 10.5A	3.8A / 6.9A	11A / 11.5A
S2000	11 / 13	12	2.6A / 4.5A	10A / 10.5A	3.8A / 6.9A	11A / 11.5A
S2600	14 / 17	12	2.6A / 4.5A	10A / 10.5A	3.8A / 6.9A	11A / 11.5A

AC 220 / 240V, 1-Phase

Model	Operating Time (Sec / 90°)		Current (60Hz / 50Hz)			
			AC 220V		AC 240V	
	Motor(50Hz / 60Hz)	Spring	Run	Lock	Run	Lock
S500	7 / 9	3	0.6A / 0.7A	1.0A / 1.2A	0.7A / 0.8A	1.3A / 1.5A
S1300	7 / 9	8	1.5A / 2.2A	5.0A / 5.1A	2.1A / 3.8A	5.6A / 5.7A
S2000	11 / 13	12	1.5A / 2.2A	5.0A / 5.1A	2.1A / 3.8A	5.6A / 5.7A
S2600	14 / 17	12	1.5A / 2.2A	5.0A / 5.1A	2.1A / 3.8A	5.6A / 5.7A

AC 380 / 440V, 3-Phase

Model	Operating Time (Sec / 90°)		Current (60Hz / 50Hz)			
			AC 380V		AC 440V	
	Motor(50Hz / 60Hz)	Spring	Run	Lock	Run	Lock
S500	7 / 8.5	3	0.4A / 0.4A	0.5A / 0.6A	0.3A / 0.4A	0.5A / 0.6A
S1300	7 / 8.5	8	1.0A / 1.5A	2.8A / 3.0A	0.7A / 1.0A	2.1A / 2.2A
S2000	11 / 13	12	1.0A / 1.5A	2.8A / 3.0A	0.7A / 1.0A	2.1A / 2.2A
S2600	14 / 17	12	1.0A / 1.5A	2.8A / 3.0A	0.7A / 1.0A	2.1A / 2.2A

AC / DC 24V, 1-Phase

Model	Operating Time (Sec / 90°)		Current	
			AC / DC 24V	
	Motor	Spring	Run	Lock
S500	7	3	3.0A	4.0A
S1300	8	3	9.0A	19.0A
S2000	11	3	9.0A	19.0A
S2600	17	3	9.0A	19.0A



Line of industrial electric actuator with safety function by means of spring force. All models have a permanent mechanical position indicator in the casing cover of the actuator. Cable gland M20,
Casing: Dry powder coating aluminum alloy, IP67, valves interface according to ISO5211,
The operating instructions must be observed!

article	spezifikation
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Inkl. Innenraumheizung – Heizungsthermostat – zusätzliche Endschalter
Incl. Heater – Heating Thermostat – Additional Limit Switches

SS500-H-ABC11	24V AC/DC	50Nm
SS500-C-ABC11	110V AC	50Nm
SS500-E-ABC11	230V AC	50Nm
SS500-G-ABC11	380V AC 3PH	50Nm
SS1300-H-ABC11	24V AC/DC	130Nm
SS1300-C-ABC11	110V AC	130Nm
SS1300-E-ABC11	230V AC	130Nm
SS1300-G-ABC11	380V AC 3PH	130Nm
SS2000-H-ABC11	24V AC/DC	200Nm
SS2000-C-ABC11	110V AC	200Nm
SS2000-E-ABC11	230V AC	200Nm
SS2000-G-ABC11	380V AC 3PH	200Nm
SS2600-H-ABC11	24V AC/DC	260Nm
SS2600-C-ABC11	110V AC	260Nm
SS2600-E-ABC11	230V AC	260Nm
SS2600-G-ABC11	380V AC 3PH	260Nm

Actuators without options

SS500-H	24V AC/DC	50Nm
SS500-C	110V AC	50Nm
SS500-E	230V AC	50Nm
SS500-G	380V AC 3PH	50Nm
SS1300-H	24V AC/DC	130Nm
SS1300-C	110V AC	130Nm
SS1300-E	230V AC	130Nm
SS1300-G	380V AC 3PH	130Nm
SS2000-H	24V AC/DC	200Nm
SS2000-C	110V AC	200Nm
SS2000-E	230V AC	200Nm
SS2000-G	380V AC 3PH	200Nm
SS2600-H	24V AC/DC	260Nm
SS2600-C	110V AC	260Nm
SS2600-E	230V AC	260Nm
SS2600-G	380V AC 3PH	260Nm

Line of industrial electric actuator with safety function by means of spring force. All models have a permanent mechanical position indicator in the casing cover of the actuator. Cable gland M20,
Casing: Dry powder coating aluminum alloy, IP67, valves interface according to ISO5211,
The operating instructions must be observed!

article	spezifikation		
Options	for Models		
SYS-A	Innenraumheizung <i>Space Heater</i>		Alle Modelle <i>all models</i>
SYS-B	Heizungsthermostat <i>Heater Thermostat</i>		Alle Modelle <i>all models</i>
SYS-C	Zusätzliche Endschalter <i>Limit Switches</i>	Additional	Alle Modelle <i>all models</i>
SYS-D	Stellungsrückmeldung 4-20mA <i>Current Position Transmitter</i>		Alle Modelle <i>all models</i>
SYS-E1	Positionierer 1/ Ausgang 4-20mA <i>Modulating Controller 4-20mA</i>		Alle Modelle <i>all models</i>
SYS-G1.1	Potentiometer 1K <i>Potentiometer</i>		S500
SYS-G1.2	Potentiometer 1K <i>Potentiometer</i>		S1300-S2600
SYS-G2.1	Potentiometer 5K <i>Potentiometer</i>		S500
SYS-G2.2	Potentiometer 5K <i>Potentiometer</i>		S1300-S2600
SYS-I1		M20	
SYS-I2	Kabeldurchführung <i>Conduit Entrance</i>	1/2" PS	Alle Modelle <i>all models</i>
SYS-I3		3/4" PF	
SYS-I4		1/2" NPT	

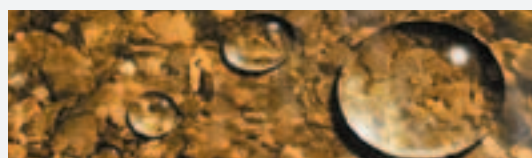


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www.juj-deutschland.de | info@juj-deutschland.de



2013

Compact
Electric Actuator
T Series







General Information and Options

Standard

Models	T6				T15			
Torque Max.	6 N·m (53 lb·in)				15 N·m (132 lb·in)			
Power Supply	110V AC	220V AC	24V AC/DC	12V DC	110V AC	220V AC	24V AC/DC	12V DC
Weight	1.5 kgs (3.3 lb)							
Mounting Flange	ISO 5211 F03/F05							
Manual Override	√							
Duty Cycle	30%							
Control	ON-OFF							
Top Cover	Plastic							
Environmental Rating	MEMA 5, IP67							
Ambient Temperature	-10°C ~ +65°C (14°F ~ 149°F)							
Conduit Entrance	1/4" PF (Max. Internal Diameter : 8mm)							

Option

Top Cover/ Environmental Rating	Aluminum Alloy, Electrostatic Paint / NEMA 4X, IP67, -30°C ~ +65°C (-22°F ~ 149°F)
Mounting Flange	ISO 5211 F04
Conduit Entrance (1-PG11 cable gland with wires 1m long)	  <p>Note : The cable gland and cable only suit for indoor use. For outdoor using please replace suitable cable gland and cable.</p>

Motor data

110V AC, 1-Phase	Model	Speed(90°)		Motor Power(W)	Current			
		60Hz	50Hz		Run(60Hz/50Hz)		Start	Lock
	T6	8s	11s	5	0.3A	0.4A	0.4A	0.3A
	T15	19s	22s	5	0.3A	0.4A	0.4A	0.3A

220V AC, 1-Phase	Model	Speed(90°)		Motor Power(W)	Current			
		60Hz	50Hz		Run(60Hz/50Hz)		Start	Lock
	T6	8s	11s	5	0.2A	0.3A	0.3A	0.3A
	T15	19s	22s	5	0.2A	0.3A	0.3A	0.3A

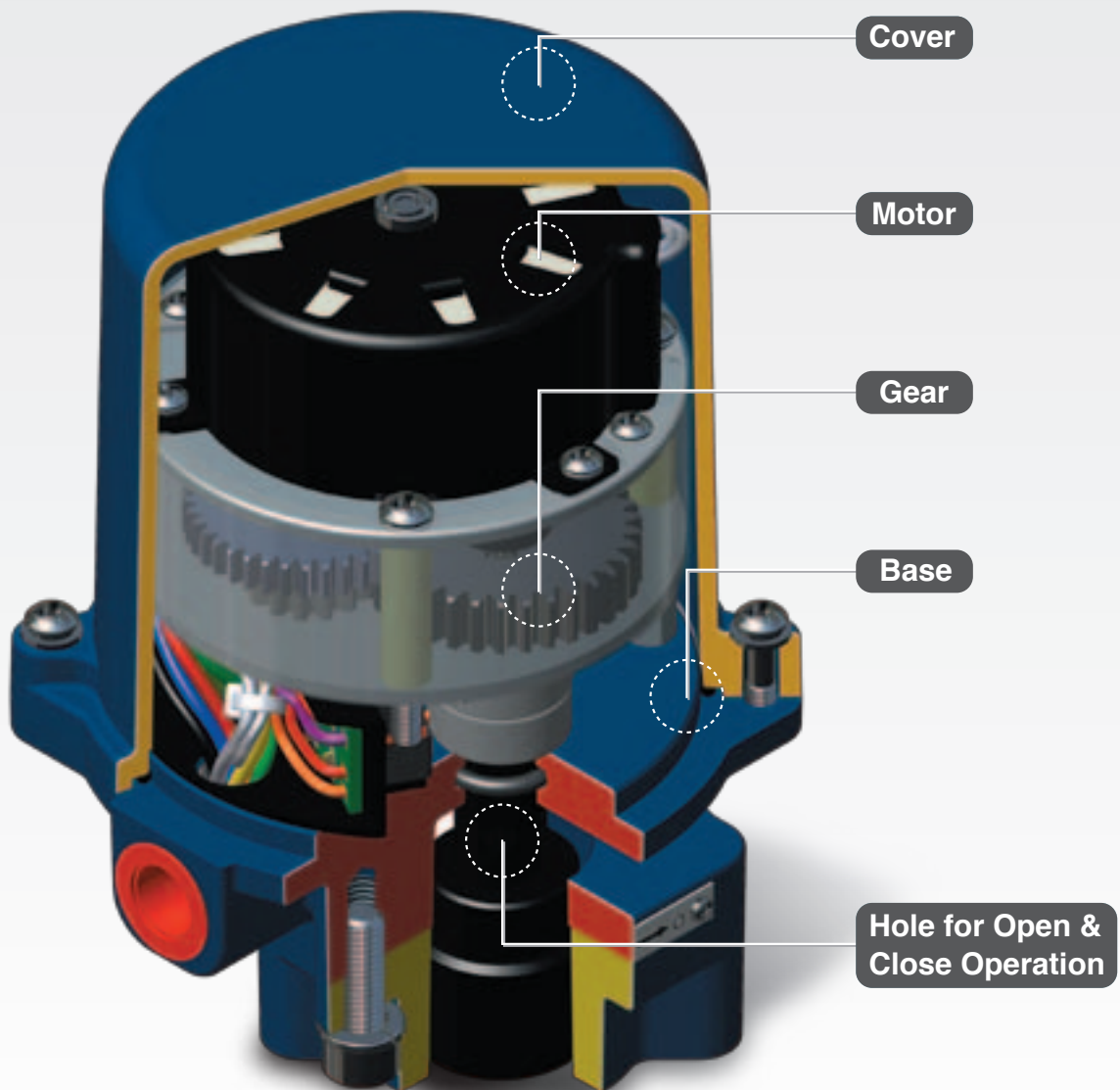
24V AC	Model	Speed(90°)		Motor Power(W)	Current			
		60Hz	50Hz		Run(60Hz/50Hz)		Start	Lock
	T6	8s	11s	5	1.1A	1.5A	1.5A	1.5A
	T15	19s	22s	5	1.1A	1.5A	1.5A	1.5A

24V DC	Model	Speed(90°)	Motor Power(W)	Current		
				Run	Start	Lock
	T6	7s	5	0.32A	2.3A	3.1A
	T15	16s	5	0.28A	2.04A	3.1A

12V DC	Model	Speed(90°)	Motor Power(W)	Current		
				Run	Start	Lock
	T6	8s	5	0.41A	2.92A	4.1A
	T15	18s	5	0.34A	2.66A	4.1A

Run : Full Load Ampere

Lock : Locked Rotor Ampere

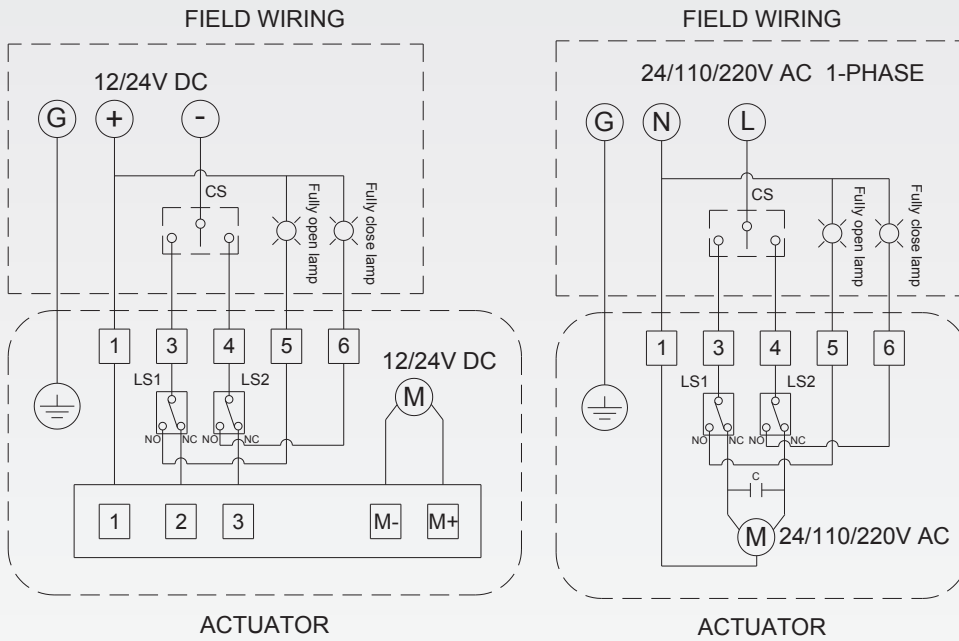


Important Notices and Maintenance

- Check for correct voltage prior to wiring.
- Turn power off before servicing or for maintenance purpose.
- Use sealant to seal conduit connections after wiring to prevent dusting or water contamination.
- The angle of electrical actuator installation must be between 0~180 degree. Do not install upside down or below the horizontal.
- When more than one electric actuator needed to operate simultaneously, please connect with individual cables to avoid parallel connection.
- Not intended for vacuum spaces and avoid installing near explosive atmospheres.
- Actuator should be placed at clean and dry place for storage, and protected with outer carton from being affected by great temperature difference or serious vibration.
- To avoid functional failure caused by statics, do not touch any components on the PCB with metal tools or bare hands.
- Please connect the ground wire to PE inside the electric actuator.
- The warranty period is one year.



Wiring Diagram

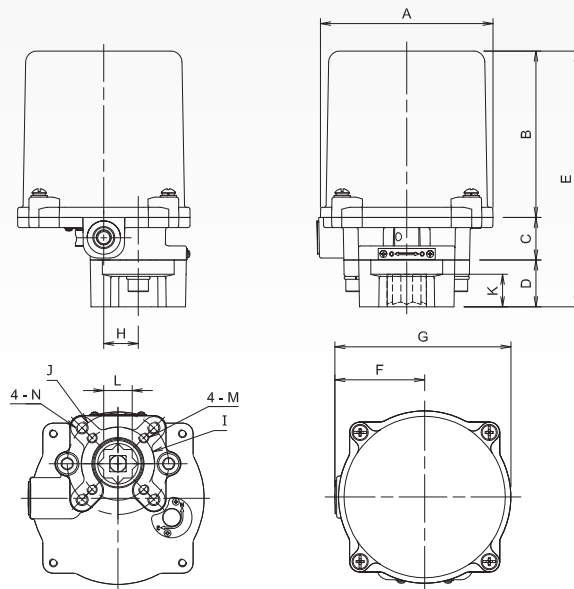


● Use proper wire size and fuse to prevent actuator failure. The data is provided below to assist on the selection of the proper wire and fuse.

Wire Gage	Max Current	Fuse
24(0.205mm ²)	3A	2A

TERMINALS:
 N connects to 1.
 L connects to 3 for OPEN.
 L connects to 4 for CLOSE.
 LS - Limit switch.
 CS - Control switch or relay.

Outline Dimensions



Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Flange Type
T6, T15	ø85	82	21	23	126	44	87	17	ø36	ø50	16	14	M5 x 0.8	M6 x 1.0	F03 / F05

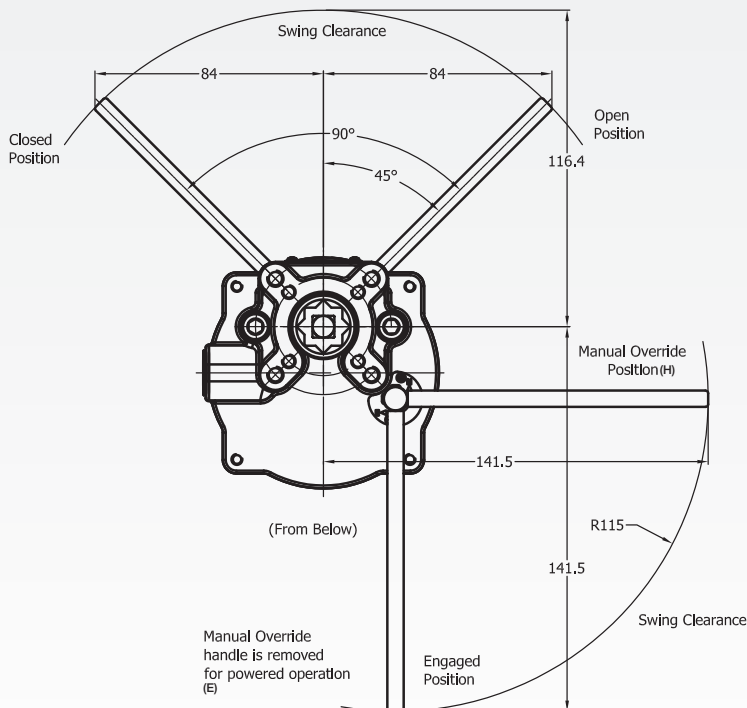
Note : The dimension is based on 110/220V AC actuator, for 24V AC/DC and 12V DC types the "B" will be 113mm and "E" will be 157mm

Installation

- Remove actuator cover. **CAUTION** : Be sure power is off at the main power box.
- Wire actuator using the wiring diagram inside cover.
- Turn on power to actuator. **CAUTION** : Use extreme caution as there are live circuits that could cause electrical shock or death.
- Replace cover and secure cover screw. Fit securing bolts/studs and tighten down to the required torque.

Thread Size	Torque (N·m)
M4	1.3

Steps of Manual Operation



- Using attached tool to switch the actuator from electrical operation (E) to manual operation (H).
 - Utilizing manual override to operate open or close.
- Note : After using the manual override for positioning, switch it back to electrical operation (E) to allow the actuator function again under power.

Receiving/Inspection

Carefully inspect for shipping damage. Damage to the shipping carton is usually a good indication that it has received rough handling. Report all damage immediately to the freight carrier and your seller.

After unpacking the product and information packet, please take care to save the shipping carton and any packing material in case of product return or replacement. Verify that the item on the packing list or bill of lading is the same as your own documentation. If there is any discrepancy, please contact with the seller.

Storage

If the actuator cannot be installed immediately, store it in a dry place, it must be protected from excess moisture, dust, and weather until you are ready to connect cables.

If the actuator has to be installed but cannot be cabled, please don't remove the plastic transit cable entry plugs. When the actuator has to be cabled, it is recommended to replace to suitable water-proof plugs with IP protection.

Compact actuator for small torques.

Casing: Dry powder coating aluminum alloy, IP67, Nema 5X, valve interface according to ISO5211, F03/F05

article	spezifikation
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Inkl. Innenraumheizung – Heizungsthermostat – zusätzliche Endschalter
Incl. Heater – Heating Thermostat – Additional Limit Switches

TT6-I-B111	12V DC	6Nm
TT6-A-B111	24V AC	6Nm
TT6-B-B111	24V DC	6Nm
TT6-C-B111	110V AC	6Nm
TT6-E-B111	230V AC	6Nm
TT15-I-B111	12V DC	15Nm
TT15-A-B111	24V AC	15Nm
TT15-B-B111	24V DC	15Nm
TT15-C-B111	110V AC	15Nm
TT15-E-B111	230V AC	15Nm

Actuators without options

TT6-I	12V DC	6Nm
TT6-A	24V AC	6Nm
TT6-B	24V DC	6Nm
TT6-C	110V AC	6Nm
TT6-E	230V AC	6Nm
TT15-I	12V DC	15Nm
TT15-A	24V AC	15Nm
TT15-B	24V DC	15Nm
TT15-C	110V AC	15Nm
TT15-E	230V AC	15Nm

Options

for Models

SYT-B1	Schutzart IP67 Nema 4x Housing	Alle Modelle <i>all models</i>
SYT-C1	Montage Flansch F04 (ISO5211) mounting flange F04 (ISO5211)	Alle Modelle <i>all models</i>
SYT-I1	Gewinde Kabeleingang conduit entrance	PG11 Alle Modelle <i>all models</i>
SYT-I2		1/4" PF



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