

540 VALVE WITH SA ACTUATOR

FEATURES

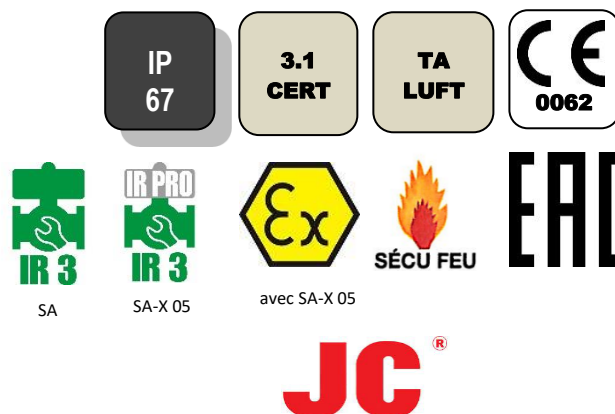
The 540+SA ball valve is designed for automatic opening/closing of unloaded industrial fluid lines up to a pressure of 40 bar. The 540 is a full-bore split-body valve with CE, ATEX, fire safety, SIL and ISO 15848-1 fugitive emission approvals. Dimensions are standardised to EN 558-1 series 27 The ISO 5211 plate enables direct mounting of the SA actuator. It is perfectly suited to both indoor and outdoor industrial use.

AVAILABLE MODELS

540 AIT: carbon steel body PN40 DN15 to 40.

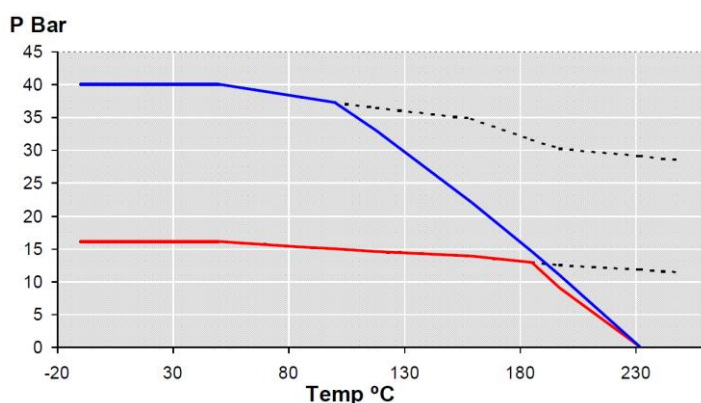
540 IIT: stainless steel body PN40 DN15 to 40.
PN16 RF flange connection.

Voltages: 12 V DC, 24 V AC-DC, and 230 V AC.



LIMITS OF USE

Max. allowable pressure (PS)	40 bar (20°C)
Min./max. allowable temperature (TS)	<u>Steel</u> : -20° / +230°C <u>St steel</u> : -50°C / +230°C
Room temperature	- 20°C / + 70°C
Duty cycle	S2 – 70%



DN15 to DN40 PN40



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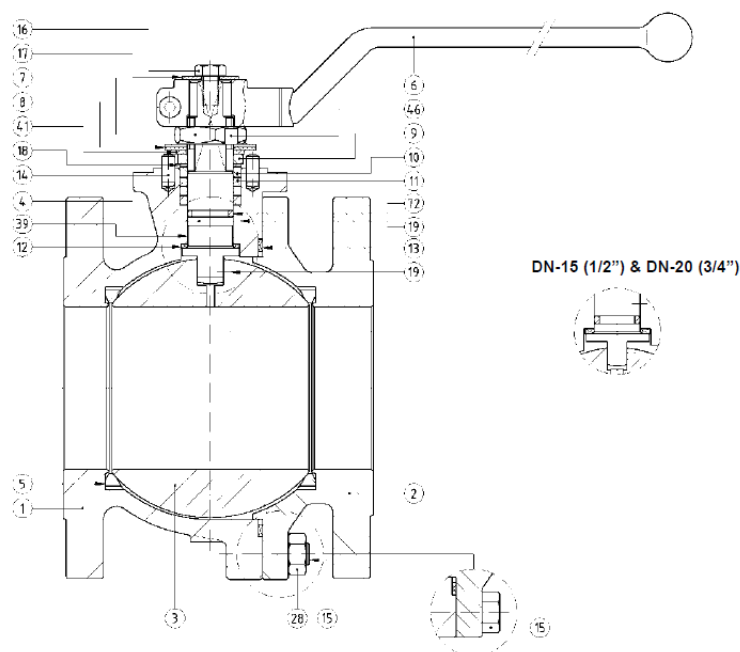
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		Ref.	TDS540+SA ENG
		Rev.	02
		Date	05/2024

540 VALVE WITH SA ACTUATOR

DIRECTIVES AND DEVELOPMENT STANDARDS

	Standard	NB	Standard	
Directive PED 2014/68	DN 15 and 20: excluded	BV 0062	Valve testing	EN 12266
	DN 25 and 40: Category III		Material certificate	EN 10204
Design	EN 1983 et ISO 17292		Alloy grade	EN 1503-1
Dimensions	EN 12516-1		Face-to-face dimensions	EN 558-1 série 27
Flange dimensions	EN 1092-1		Fugitive emissions	EN 15848-1
Fire safe	ISO 10497 (2004)		Level SIL 3 (valve only)	EN 61508
Motor connection	ISO 5211		Actuator	EN 15714-2
ATEX Directive 14/34	Valve		II 2G/D Tx for zones 1,2,21 and 22	
	Actuator (option SA-X)	KEMA 0344	II 2G EEx d II B T4 for zones 1 and 2	

CONSTRUCTION



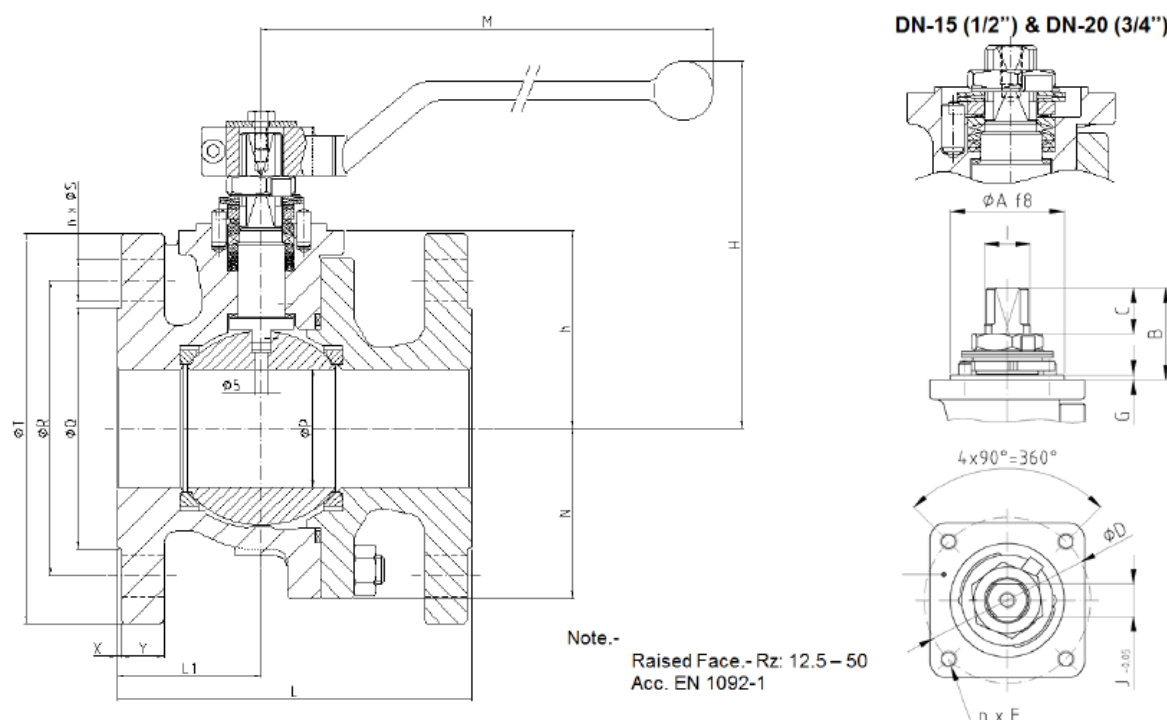
N°	Item	516 AIT	516 IIT	N°	Item	516 AIT	516 IIT
1	Body	Steel 1.0619	St steel 1.4408	14	End Stop	Carbon steel	St steel
2	Ends	Steel 1.0619	St steel 1.4408	15	Body bolt	DIN 933 A4-70	
3	Ball	A 351 Gr. CF8M		16	Handle screw	DIN 933 A4-70	
4	Stem	St steel A 479 Tp.316		17	Washer	Galvanised steel	AISI 304
5	Seat	PTFE		18	Thrust washer	PTFE+25% GF	
6	Lever	Nodular cast iron		19	Antistatic device	St steel	
8	Belleville washer	Steel	Steel ENP	28	Nut	DIN 933 A4-70	
9	Stop plate	Steel	St steel 304	39	Stem bushing	PTFE+25% GF	
10	Valve spacer	AISI 303	AISI 316	41	Spacer	Carbon steel	AISI 304
11	Gland packing	Graphite		46	Washer	AISI 304	
12	Antifriction ring	PTFE+25% GF		72	O ring	FKM	
13	O ring	Inox 316L + PTFE + graphite		89	ID plate	St steel	

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DIMENSIONS (mm) and WEIGHT (kg)



DN	15	20	25	32	40
ΦP	15	20	25	32	40
L	115	120	125	130	140
L1	53	52	49	54	55
ΦR	65	75	85	100	110
n x Φ S	4x14	4x14	4x14	4x18	4x18
Φ T	95	105	115	140	150
H	110	117	129	131	148
M	164	164	164	210	213
ISO	F05	F05	F05	F05	F07
B	11,2	13,2	22,7	32	41,5
C	5,7	9,2	10,2	13,7	19,2
I	M12	M12	M12	M16	M18
J	9	9	9	12	13
Weight	2,8	2,8	5	7	9

FLOW RATE Kv (m³/h)

DN	15	20	25	32	40
Kv	20	40	75	130	170

VALVE SEAT OPTIONS

Sealing	PTFE	PTFE + fiberglass	PTFE + graphite	PTFE+st steel
TS	-20°C/+230°C	-20°C/+230°C	-20°C/+260°C	-20°C/+260°C
Code	516AIT or IIT	516AIGF or IIGF	516AICG or IICG	516AIS or IIS

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540 VALVE WITH SA ACTUATOR

ACTUATION WITH SA

Suggested standard SA actuation under the following conditions:

- Electric actuator with an IP 67 epoxy-coated aluminium enclosure and steel gears
- A minimum 1.3 safety factor compared with the valve nominal torque rating
- A maximum pressure differential up/downstream of 10 bar (=ΔP)
- Electric actuator mounted with stainless steel bracket and coupler according to the EN 15081 standard

Electric actuator, insulated with stainless steel bracket and coupler according to the EN 15661 standard						
DN	Actuator	Power	Intensity 230V CA	Intensity 24V CA-CC	Operating Time*	Standard equipment of the actuator
15	SA 03	18 W	100 mA	800 mA	12 s	2 adjustable limit switches 2 dry auxiliary switches 2W anti-condensation heater Actuator thermal cut-out Manual override by key Backlit position indicator (except for SA-X) Electrical connection: 2 gland packs M20x1.5
20	SA 03	18 W	100 mA	800 mA	12 s	
25	SA 03	18 W	100 mA	800 mA	12 s	
32	SA 05	6 W	28 mA	1,8 mA	17 s	
40	SA 05	6 W	28 mA	1,8 mA	17 s	
50	See 540 + NA					
65						
80						
100						

*Unloaded operating time is given for information purposes only. It may vary depending on the medium
For any other working conditions, please contact us

ACTUATION OPTIONS

There are many different options. Please contact our commercial department.

1	2	3	4	5
SA 05 S: Slow closing electric actuator 70 s	SA 05 PCU: Regulation actuator 4-20 mA or 0-10 V	SA 05 RBP: Safety actuator with an integrated battery emergency shutdown	SA 05 X: Actuator for use in ATEX zones 1 and 2	SR 05: Safety spring return actuator
				
6	SA PUI electric actuator with a feedback potentiometer			
7	Electric actuator sized for a maximum pressure differential up/downstream over 10 bar (=ΔP)			
8	NA electric actuator with a declutchable manual override by handwheel			

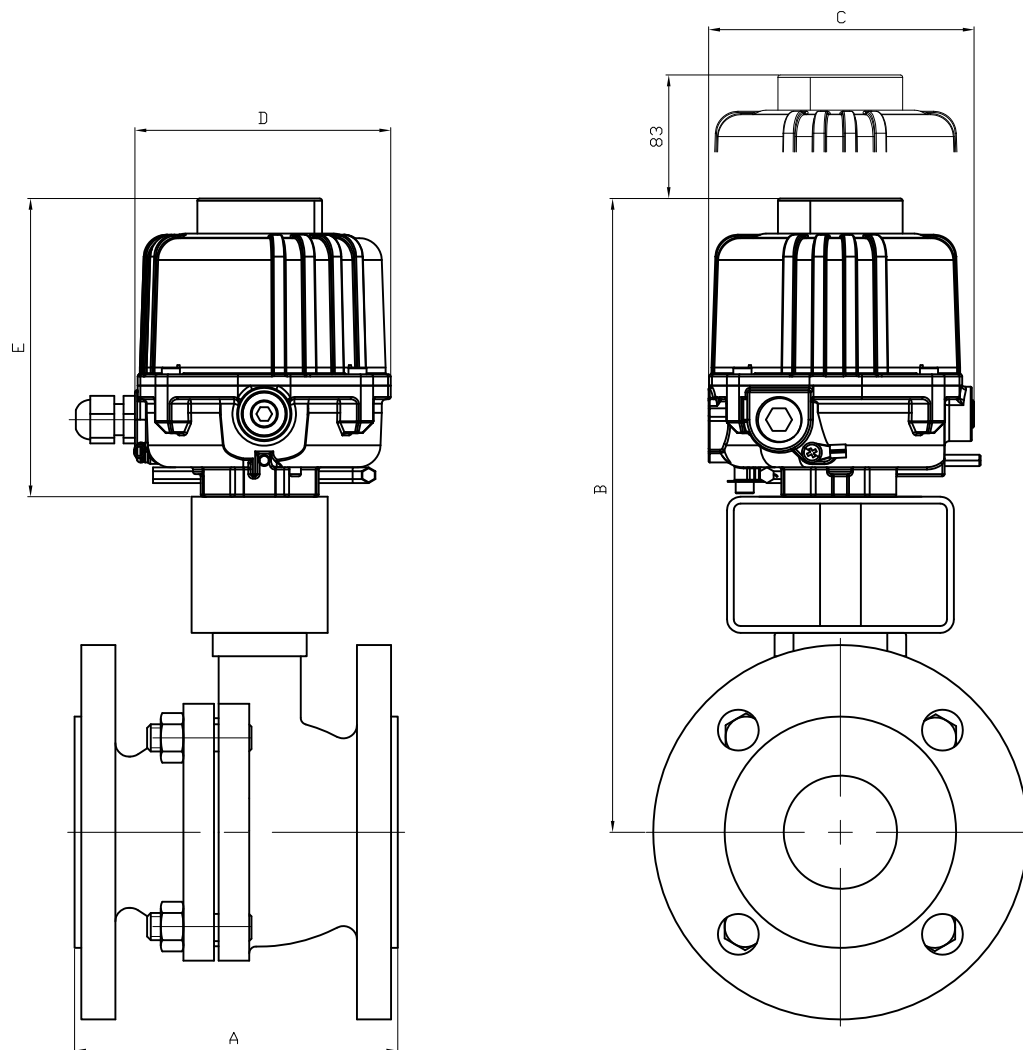
ATEX ZONES INSTALLATION

It is compulsory to specify if the installation of the automatic valve 540+SA-X will take place in ATEX zones 1 or 2 while making the order. Our services will proceed to the mounting check and a grounding strip installation and edit a mounting certificate. Those operations are performed by our proper engineers. Please contact us for further details. Following the ATEX zone mounting and maintenance, special instructions for motorised valves are also compulsory. The ATEX gland packs and sealing plugs are not provided. Please use the following codes:

ATEX aluminium gland pack M20x1.5	Code 980179	Aluminium plug M20x1.5 ATEX	Code 980180
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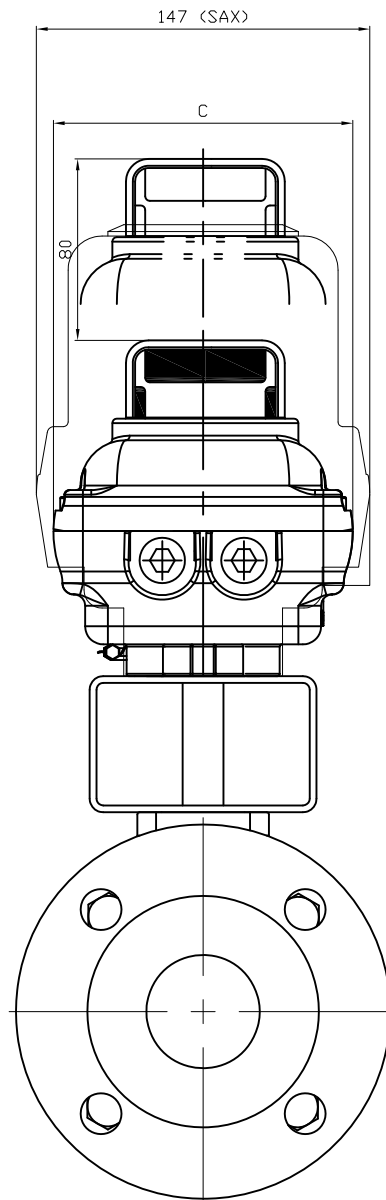
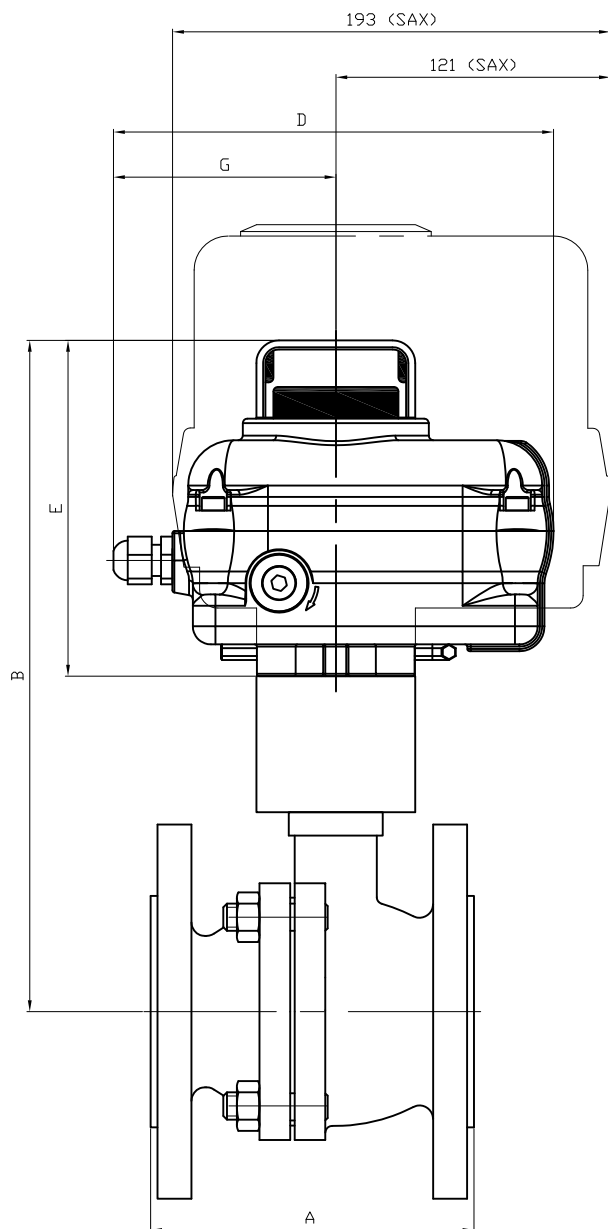
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DN	15	20	25
SERVO	SA03	SA03	SA03
A	115	120	125
B	237.5	244.5	249.5
C	117	117	117
D	113	113	113
E	131.5	131.5	131.5
POIDS KG	4.5	5.3	6.7

Informations données à titre indicatif et sous réserve de modifications éventuelles

Ech: /	Date :05/03/2018	Dessiné par : E.D.	Tolérances générales : +/- 0.2	Modifications	Date	REV.
ROBINET A TOURNANT SHERIQUE 516-540JC/BALL VALVE 516-540JC + SERVOMOTEUR SA03/ELECTRICAL ACTUATOR SA03				Matière :		
				Poids (Kg) :		
				Traitement : SANS		
				45, Rue du Ruisseau		
				38297 SAINT QUENTIN FALLAVIER		
				Plan n° Ens 1313		



DN	15	20	25	32	40
SERVO	SA05X	SA05X	SA05X	SA05-SA05X	SA05-SA05X
A	115	120	125	130	140
B	-	-	-	279.5	289
B(SAX)	306	312	317	325.5	335
C	127	127	127	127	127
D	170	170	170	170	170
E	-	-	-	153	153
E(SAX)	199	199	199	199	199
G	100	100	100	100	100
POIDS KG	-	-	-	10.2	12.2
POIDS(SAX) KG	7.8	8.6	10	12	14

Informations données à titre indicatif et sous réserve de modifications éventuelles

Ech: /	Date :06/03/2018	Dessiné par : E.D.	Tolérances générales : +/- 0.2	Modifications	Date	REV.
ROBINET A TOURNANT SHERIQUE 516-540JC/BALL VALVE 516-540JC + SERVOMOTEUR SA05-SA05X/ELECTRICAL ACTUATOR SA05-SAX05				Matière :		
				Poids (Kg) :		
				Traitement : SANS		
				45, Rue du Ruisseau		
38297 SAINT QUENTIN FALLAVIER				Plan n° Ens 1314		

SA 03 ELECTRIC ACTUATOR

FEATURES

The SA03 electric actuator is intended for motorising under on/off operation the 1/4 turn valves with a torque of at most 30 Nm. With a compact construction and epoxy-coated aluminium housing, it is especially well suited for motorising small diameter ball valves. Backlit dome position indicator. IP67 leak-tightness: it can be used both indoors and outdoors. Compliant with the EN 15714-2 standard.

AVAILABLE MODELS

Supply voltages: 230V AC and 24V AC/DC

LIMITS OF USE

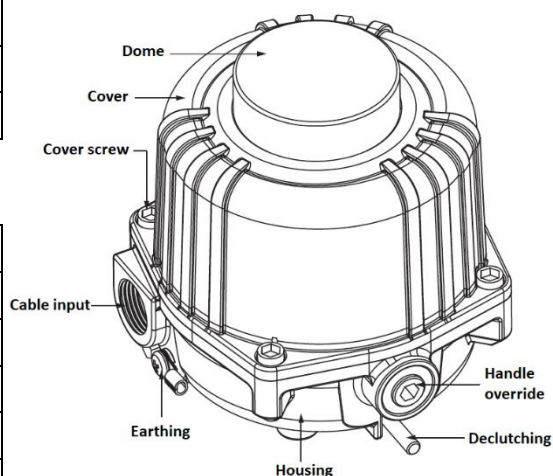
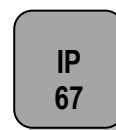
IP Code	IP 67
Ambient temperature	- 20°C / + 70°C
Service factor	<u>S2</u> : 15 minutes / <u>S4</u> : 50%

MECHANICAL FEATURES

Gear box	treated steel pinions	
Torque	30 Nm	
Angle of rotation	90° +/- 5°	
Manoeuvring time	24V AC/DC	230V AC
	<u>AC</u> : 9 s / <u>DC</u> : 7 s	12 s
ISO 5211	F03 / F05 star 11	
Declutching	key-controlled	
Override control	using a 6 mm hex key	
Weight	1.5 kg	

ELECTRICAL FEATURES

Power	18 W	
Current	24V AC/DC	230V AC
	0.8 A	0.1 A
Motor protection	thermal	
Limit switches	2 adjustable switches	
Auxiliary switches	2 adjustable dry switches 250V AC 5A	
Anti-condensation	2x1.5W heater	
Electrical connection	2 x M20 x 1.5 (one PE and one plug provided)	



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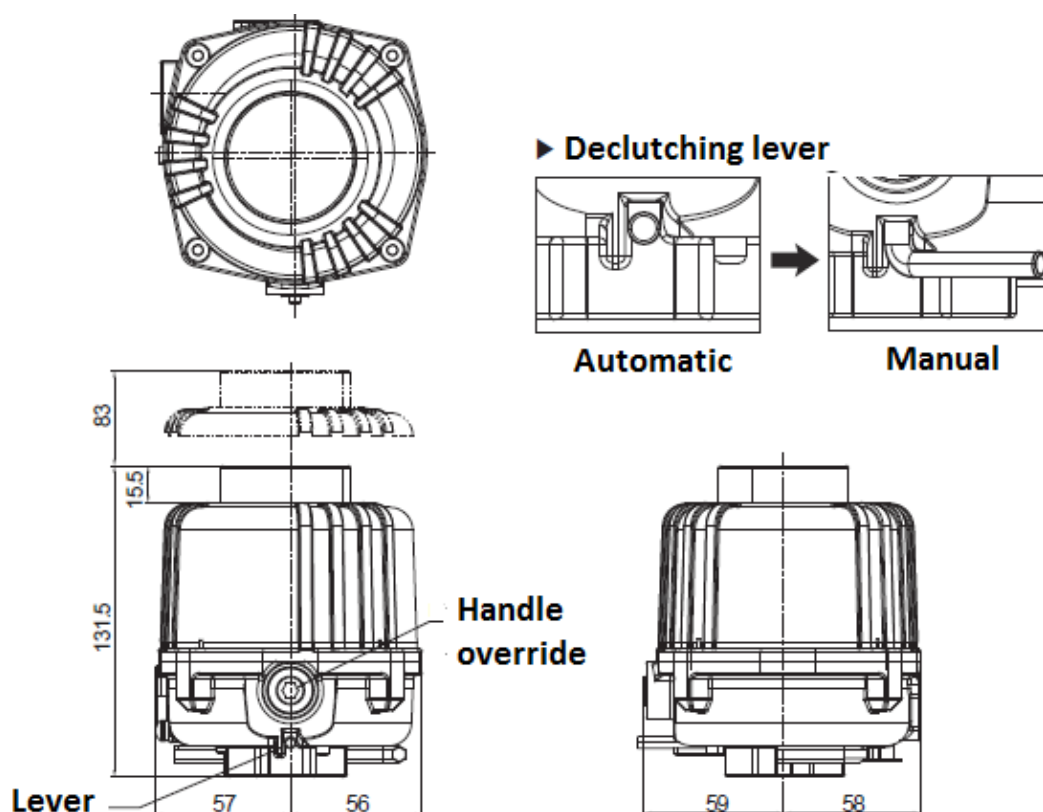


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SA 03 ELECTRIC ACTUATOR

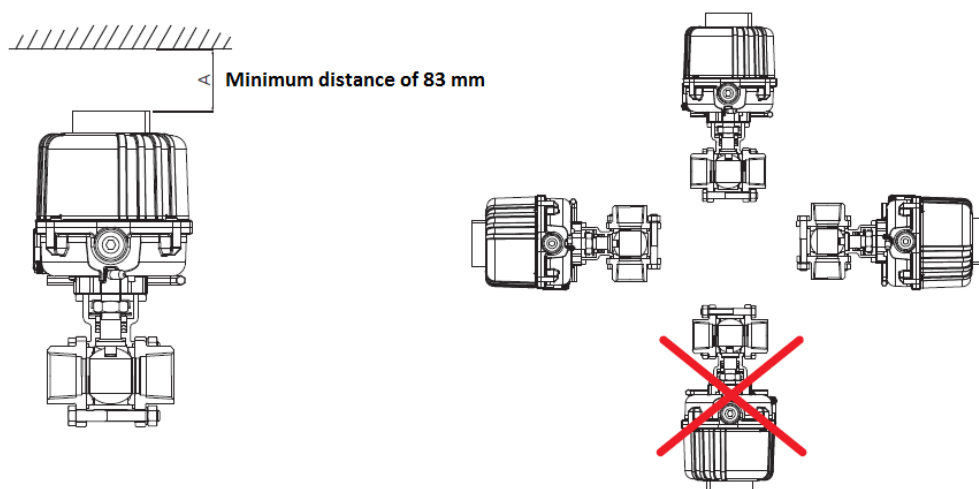
DIMENSIONS (mm)



CONSTRUCTION

No.	Item	Material
1	Housing	Epoxy-coated aluminium alloy
2	Cover	Epoxy-coated aluminium alloy
3	Cover screw	Stainless steel
4	Dome	polycarbonate

ASSEMBLY POSITIONS



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SA 03 ELECTRIC ACTUATOR

GUARANTEE

Before any contact with our services, identify the type of actuator.

SECTORIEL actuators have a 12-month guarantee from the delivery date. The parts admitted as faulty by an assessment at our facility will be replaced at our expense. Complaints generated by incorrect use or a modification of the actuator, cannot be taken into account.

VERIFICATIONS AND ACCEPTANCE

At acceptance, check that:

- the packaging is in good condition,
- the actuator is as ordered,
- the equipment is not damaged.

It is recommended to install the actuator as soon as accepted and not to leave it unused. If the equipment has to be stored, it must be in a dry place protected from weather.

PRECAUTIONS FOR OPERATION

Before installing, make sure that the installation is completely depressurized and brought to ambient temperature.

Do not install this actuator in a zone classified as explosive (ATEX).

The IP Code of the actuator is IP67 for interior or exterior mounting. Do not install this actuator in a marine environment and do not immerse it.

The actuator must not be powered during installation and maintenance of the valve on the pipework, and of the actuator on the valve.

Before proceeding to the electrical connection, check the supply voltage of the actuator.

Do not mount the actuator in series or in parallel with other electrical motors. If need be, use relays.

Do not mount the actuator on valves with higher torque than the nominal torque of the actuator.

INSTALLATION AND OPERATION

Install the actuator on the valve (already done for the units assembled in our workshops)

Perform the electrical wiring as shown on the diagram below

Adjust the switch stops (already done for the units assembled in our workshops).

View the movement of the valve using the indicator light on the cover.

SA03 actuator: to use the manual override, first disconnect the electrical power, then turn the hollow hex-head screw with a hex key.

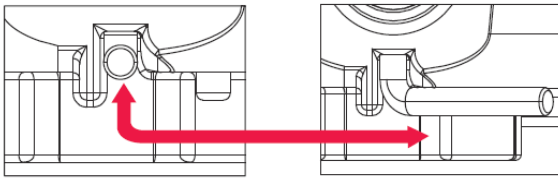
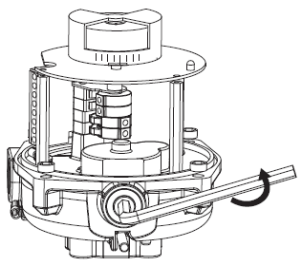
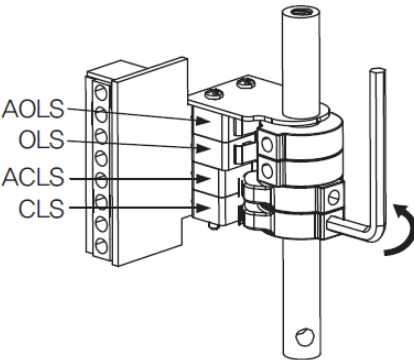
Reposition the manual override after use.

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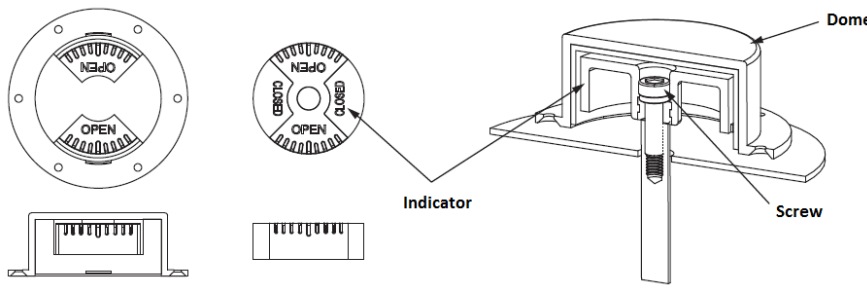
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SA 03 ELECTRIC ACTUATOR

SWITCH SETTING

1. Switch the actuator to manual mode	2. Turn the key to bring the valve, successively, in the open and closed positions, and to set the switches as shown below.							
 Auto Manual								
	The cams are attached to the drive stem							
	Clockwise rotation = valve closing. The micro-switch stops the actuator.							
	Anti-clockwise rotation = valve opening. The micro-switch stops the actuator.							
	<table> <tr> <td>CLS</td><td>Closing switch</td></tr> <tr> <td>OLS</td><td>Opening switch</td></tr> <tr> <td>ACSL</td><td>Auxiliary closing switch</td></tr> <tr> <td>OCSL</td><td>Auxiliary opening switch</td></tr> </table>	CLS	Closing switch	OLS	Opening switch	ACSL	Auxiliary closing switch	OCSL
CLS	Closing switch							
OLS	Opening switch							
ACSL	Auxiliary closing switch							
OCSL	Auxiliary opening switch							

SETTING THE POSITION INDICATOR

	The position of the valve is indicated by the indicator. If its alignment is incorrect, remove the cover and proceed to its setting by unscrewing the attachment screw.
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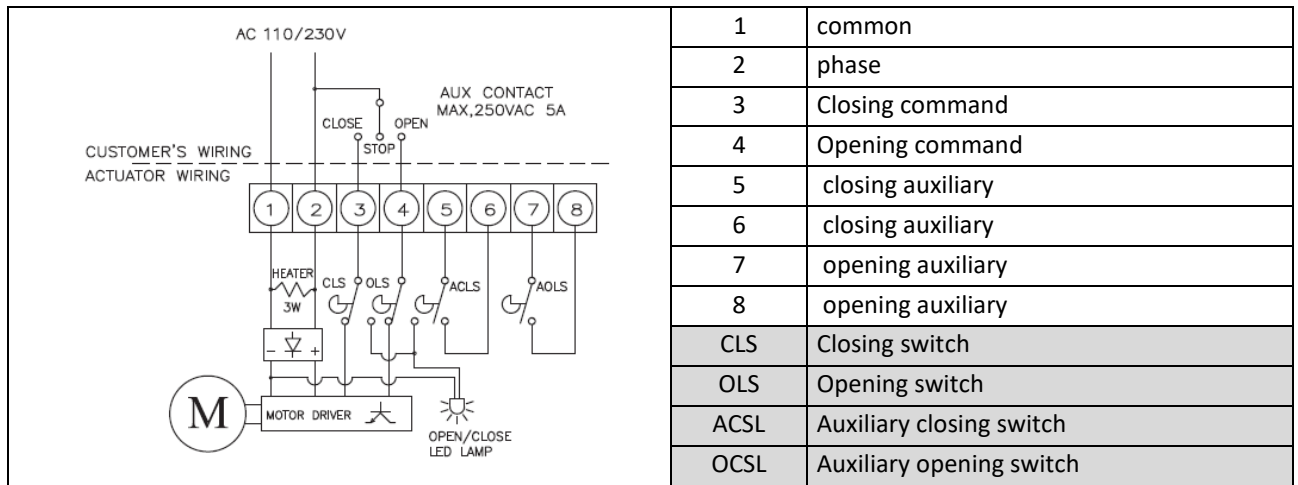
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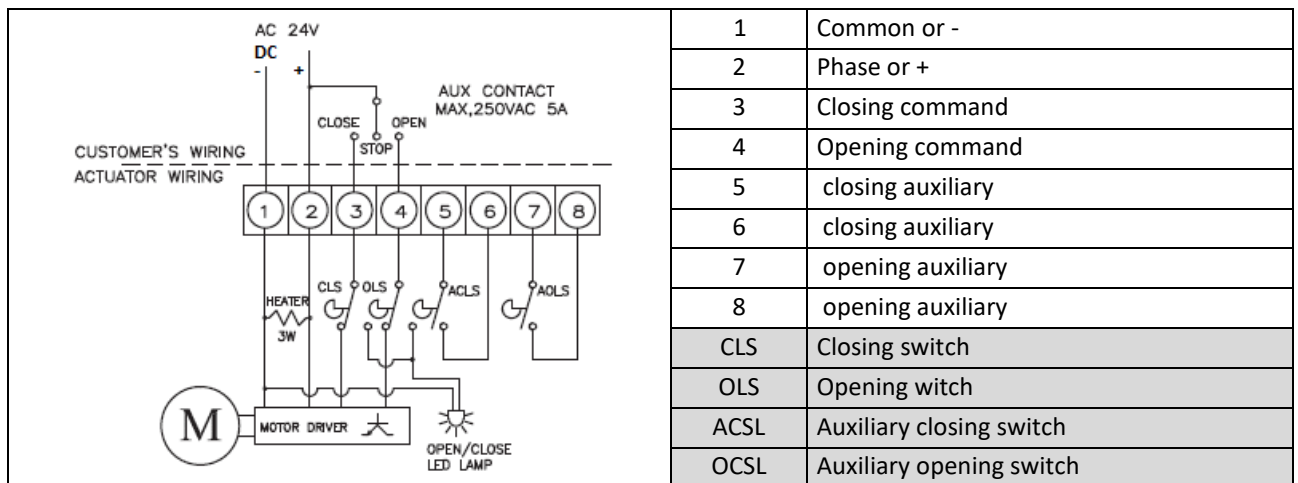
SA 03 ELECTRIC ACTUATOR

ELECTRICAL WIRING

Wiring for 110/230V AC voltages



Wiring for 24V AC/DC voltages



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SA 05 ELECTRIC ACTUATOR

FEATURES

The SA 05 electric actuator is intended for motorising industrial 1/4" turn valves. The torque is of 50 Nm. With a compact, robust construction and IP67 epoxy-coated aluminium housing, the SA actuator is especially well suited for motorising ball valves and butterfly valves installed in workshops or outdoors. The SA 05 has a manual key control and a 3D visual position indicator. Compliant with the EN 15714-2 standard.

AVAILABLE MODELS

Supply voltages: 230 Vac (50-60Hz), 24 Vac/dc and 12 Vdc.

Options: 110 Vac, feedback potentiometer, local command.



LIMITS OF USE

IP Code	IP 67
Ambient temperature	- 20°C / +70°C
Service factor	S2 : 15mn - S4 : 50%

MECHANICAL FEATURES

Gear box	treated steel pinions
Torque	50 Nm
Angle of rotation	90° +/- 5°
Declutching	Without
Override control	by key (except for SA 05 S)



Actuator	SA 05			SA 05 S	
Voltage	230V AC	24V AC/DC	12V DC	230V AC	24V AC/DC
Torque (Nm)	50				
Manoeuvring time (s)	17	10	11	100	100
ISO 5211	F03/F05/F07 star 14				

ELECTRICAL FEATURES

Motor protection	Thermal switch	Anti-condensation	5W heater
Limit switches	2 adjustable switches	Electrical connection	2 x P.E. M20x1.5
Auxiliary switches	2 adjustable dry switches		

Actuator	SA 05			SA 05 S	
Voltage	230V AC	24V AC/DC	12V DC	230V AC	24V AC/DC
Power (W)	6 W	15 W	6 W	6 W	6 W
Current (A)	0.23	1.8	3.2	0.23	1.8

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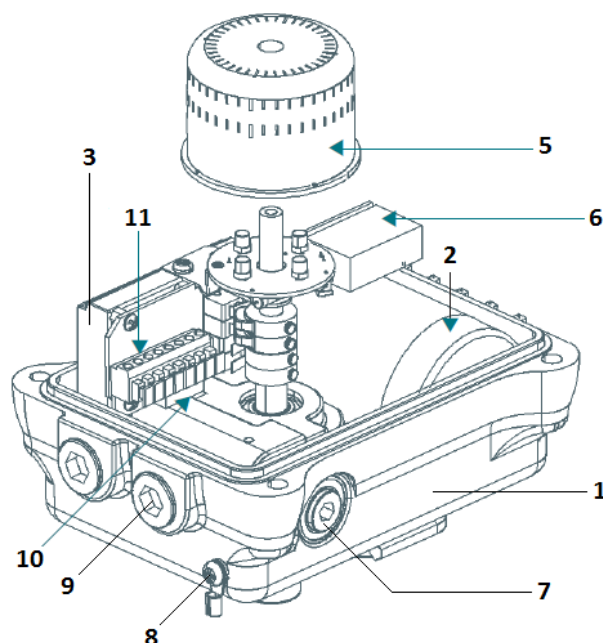
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SA 05 ELECTRIC ACTUATOR

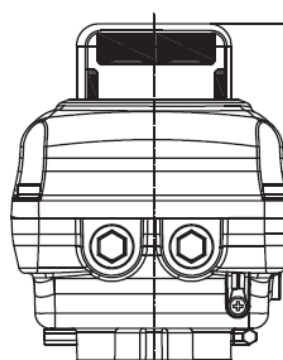
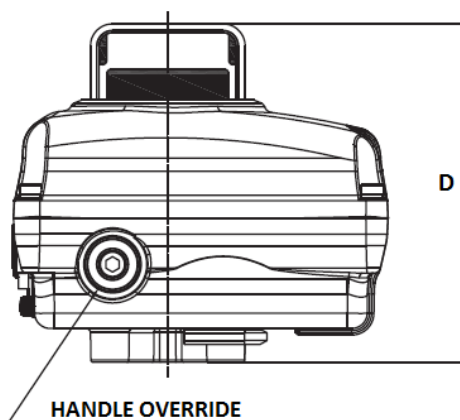
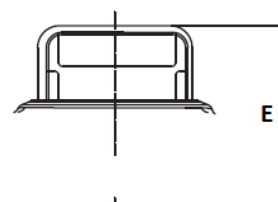
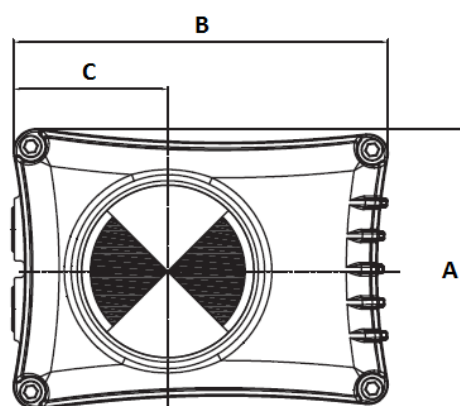
CONSTRUCTION

1	Housing	Polyester-coated aluminium
2	Electrical motor	
3	Gear box	Treated steel pinions
4	Cover	Polyester-coated aluminium
5	Position indicator	Polycarbonate plastic
6	Condenser	
7	Handle override	
8	Earthing	
9	Cable inlet	
10	Anti-condensation heater	
11	Terminal box	



DIMENSIONS (mm) AND WEIGHT (kg)

Dimensions (mm)	A	B	C	D	E	Weight (kg)
SA 05	127	170	70	153	80	3.2



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SA 05 ELECTRIC ACTUATOR

WIRING DIAGRAM 230V AC 50Hz/60Hz

1	common	CLS : Close Limit Switch (250VAC 3A) OLS : Open Limit Switch (250VAC 3A) ACLS : Aux Close Limit Switch (250VAC 3A) AOLS : Aux Open Limit Switch (250VAC 3A) TP : Thermal Protector (250VAC 3A) RM : Motor Regulation
2	Anti-condensation heater	
3	closing command	
4	opening command	
5	closing auxiliary	
6	closing auxiliary	
7	opening auxiliary	
8	Opening auxiliary	

WIRING DIAGRAM 24V AC/DC-12V DC

1	Common or +	CLS : Close Limit Switch (250VAC 3A) OLS : Open Limit Switch (250VAC 3A) ACLS : Aux Close Limit Switch (250VAC 3A) AOLS : Aux Open Limit Switch (250VAC 3A) TP : Thermal Protector (250VAC 3A) RM : Motor Regulation
2	Closing command	
3	Opening command	
4	closing auxiliary	
5	opening auxiliary	
6	Auxiliaries common	
7	Anti-condensation heater power supply	
8	Anti-condensation heater power supply	

OPTIONS

1	SA 05 X: version for ATEX zone
2	SA 05 PIU: version with feedback potentiometer
3	SA 05 CPT: version with position transmitter 4-20 mA
4	SA 05 PCU: version with adjustment card 0-10, 2-10V, 2-20 mA, 4-20 mA
5	SA 05 LCU: version with local control
6	SA 05 RBP: version with in-built fail safe/security

Information given as an indication only, and subject to possible modifications



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SA 05-X ELECTRIC ACTUATOR

FEATURES

SA05-X electric actuators are intended for motorising 1/4" turn valves in explosive zones. The torque is of 50 Nm. The protection mode is a "d" explosion-proof. With a compact, robust construction and IP67 epoxy-coated aluminium housing, the SA05-X actuator is especially well suited for motorising ball valves and butterfly valves installed in difficult atmospheres. The SA05-X has a manual key control and a 3D visual position indicator. Compliant with the EN 15714-2 standard.

AVAILABLE MODELS

Supply voltages: 230V AC (50-60Hz), 24V AC/DC.

LIMITS OF USE

IP Code	IP 67
Ambient temperature	- 20°C / +55°C
Service factor	S2: 15mn - S4: 50%



ATEX APPROVAL

Protection mode	"d" according to the EN 60079-1 standard
Category of material	2
Operation zones	1G and 2G
Marking	II 2 G Ex d IIB T4 (ON KEMA no. 0344)



MECHANICAL FEATURES

Gear box	treated steel pinions
Torque	50 Nm
Angle of rotation	90° +/- 5°
Declutching	Without
Override control	By key

Actuator	SA 05-X (50Hz)		SA 05-X (60Hz)
Voltage	230V AC	24V AC/DC	230V AC
Torque (Nm)	50		50
Manoeuvring time (s)	17	10	14
ISO 5211	F03/F05/F07 star 14		

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SA 05-X ELECTRIC ACTUATOR

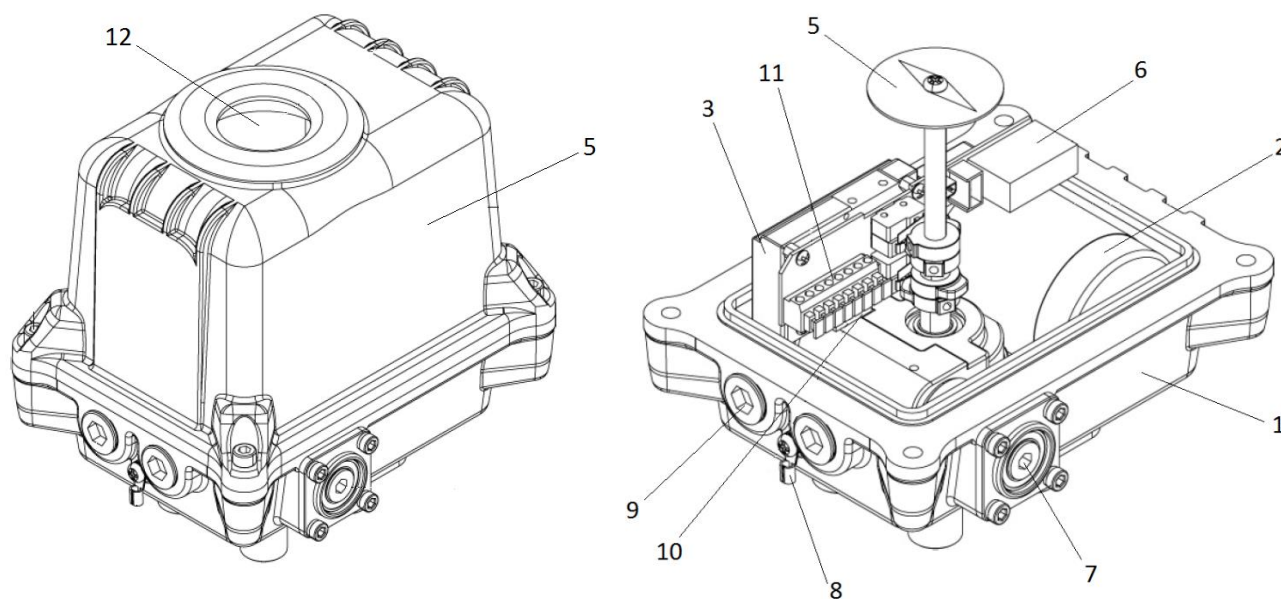
ELECTRICAL FEATURES

Motor protection	Thermal switch	Anti-condensation	5W heater
Limit switches	2 adjustable switches	Electrical connection	2 x C.G. M20x1.5 ATEX (NOT SUPPLIED on option)
Auxiliary switches	2 adjustable dry switches		

Actuator	SA 05 X	
Voltage	230V AC	24V AC/DC
Power (W)	6 W	6 W
Current (A)	0.23	1.8

CONSTRUCTION

1	Housing	Polyester-coated aluminium
2	Electrical motor	
3	Gear box	Treated steel pinions
4	Cover	Polyester-coated aluminium
5	Position indicator	Polycarbonate plastic
6	Condenser	
7	Handle override	
8	Earthing	
9	Cable inlet	
10	Anti-condensation heater	
11	Terminal box	
12	Indicator light	Toughened glass



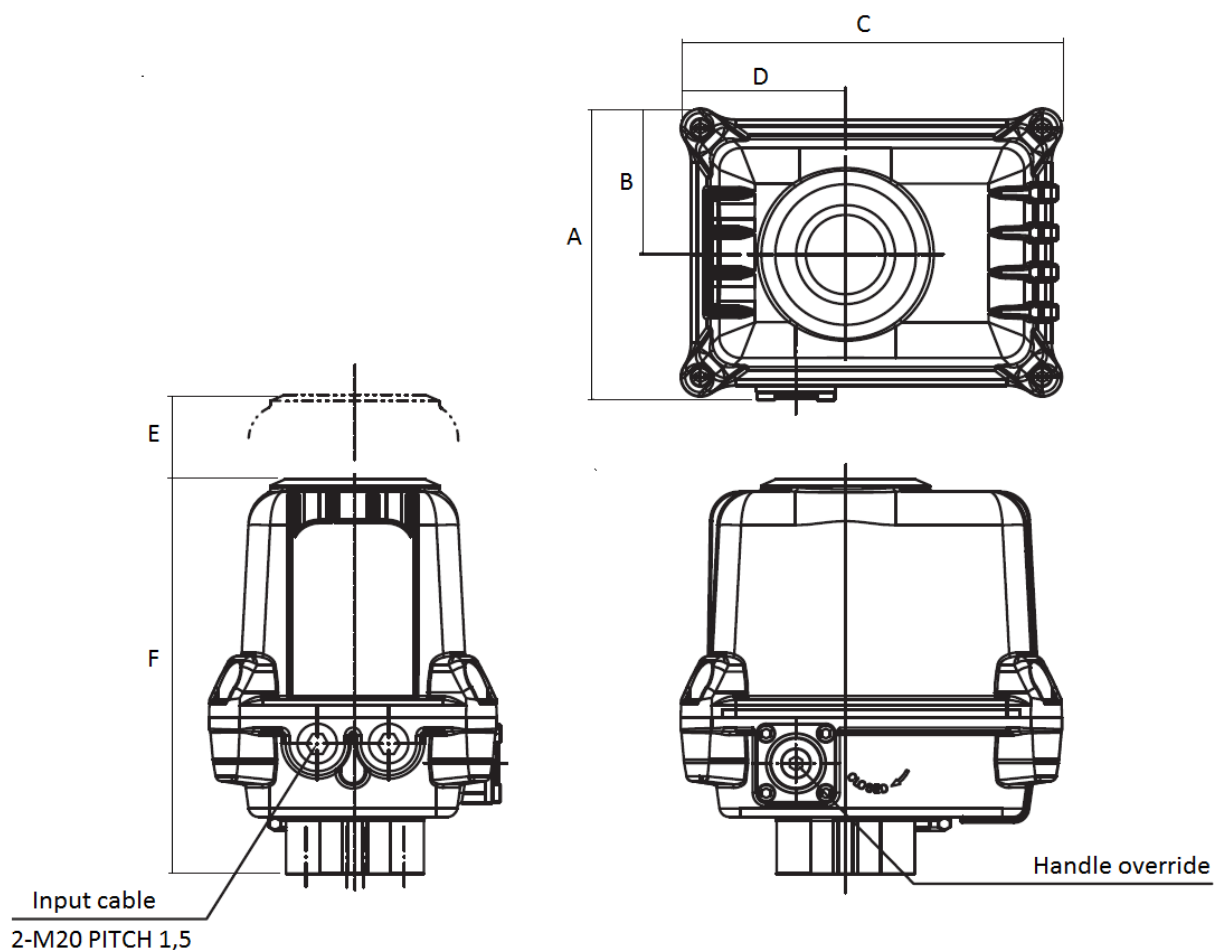
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SA 05-X ELECTRIC ACTUATOR

DIMENSIONS (mm) AND WEIGHT (kg)

Dimensions (mm)	A	B	C	D	E	F	Weight (kg)
SA05-X	147	73	193	83	100	199	5



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SA 05-X ELECTRIC ACTUATOR

WIRING DIAGRAM 230V AC 50Hz/60Hz

1	common	CLS : Close Limit Switch (250VAC 3A) OLS : Open Limit Switch (250VAC 3A) ACLS : Aux Close Limit Switch (250VAC 3A) AOLS : Aux Open Limit Switch (250VAC 3A) TP : Thermal Protector (250VAC 3A) RM : Motor Regulation
2	Anti-condensation heater	
3	closing command	
4	opening command	
5	closing auxiliary	
6	closing auxiliary	
7	opening auxiliary	
8	Opening auxiliary	

WIRING DIAGRAM 24V AC/DC

1	Common or +	CLS : Close Limit Switch (250VAC 3A) OLS : Open Limit Switch (250VAC 3A) ACLS : Aux Close Limit Switch (250VAC 3A) AOLS : Aux Open Limit Switch (250VAC 3A) TP : Thermal Protector (250VAC 3A) RM : Motor Regulation
2	Closing command	
3	Opening command	
4	closing auxiliary	
5	opening auxiliary	
6	Auxiliaries common	
7	Anti-condensation heater power supply	
8	Anti-condensation heater power supply	

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