

S11 3P

FIRST ELECTRIC ACTUATORS

for 3-way and 4-way mixing valves

FIRST®

3-POINT
CONTROL



STOP AT INTERMEDIATE
POSITIONS

EURONORM AXLE SYSTEM

ISO 5211



FIRŠT actuators, series S11 3P, are 3-point actuators designed for operating 3-way and 4-way mixing valves (DN 15 - DN 50).

- The FIRŠT S11 3P actuators have defined direction of rotation (90° rotating angle).
- Actuators are available with cable or Molex connection with manual control handle and are recommended for mixing applications.

OPERATION

S11 3P is an electric actuator designed for operating 3-way and 4-way rotary mixing valves. Actuators are controlled by 3-point SPDT signal. FIRŠT S11 3P actuators allow high regulating accuracy and easy installation with different mounting systems.

Actuators are available in 230 VAC 50 Hz or 24 VAC 50 Hz and are supplied with a 1,5 m attached connection cable or Molex connector. Actuator can be manually operated with handle and button on the cover.

Actuators S11 3P are recommended for mixing or diverting applications with FMV 130E, FMV 140E and FMV H-151E valves. Actuators can also be used with 2-way, 3-way and 6-way ISO 5211 F04 valves.

MAINTENANCE

Actuator requires no maintenance. The installation of suitable strainer is recommended.

TECHNICAL DATA: ACTUATOR

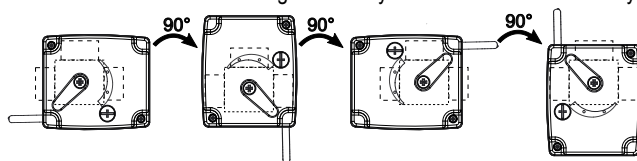
Control:	3-point SPDT
Supply voltage:	230 VAC 50 Hz / 24 VAC 50 Hz
Rotation time:	50s/90°, 75s/90°, 150s/90°
Power consumption:	3 VA (operation), 0 VA (stand by)
Max.Torque:	5 Nm / 10 Nm
Protection class:	II
Enclosure rating:	IP44 (cable connection) IP44 (specially sealed Molex cable)
Connection:	cable 1,5 m, 3x0,75 mm² / Molex connector
Direction of rotation:	defined 90° angle
Manual operation:	handle and push button
Position indicator:	handle with position indicator
Media temperature:	+2°C..+110°C
Ambient temperature:	0°C..+55°C
Storage temperature:	-10°C..+70°C
Humidity:	0%..80% R.H. (non condensed)



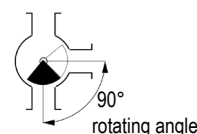
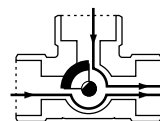
In accordance with LVD,
RoHS2, EMC

INSTALLATION POSITION

Actuator can be rotated on the mixing valve body to fit different installation layouts.

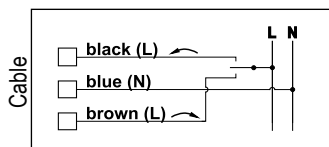


MIXING APPLICATION

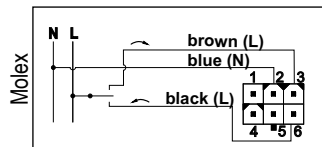


ELECTRICAL CONNECTION

3- point control SPDT.



3- point control SPDT.



SUITABLE VALVES

FMV130E



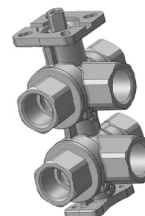
FMV140E



2-way ISO 5211 F04



6-way ISO 5211 F04



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Let First be your first choice.

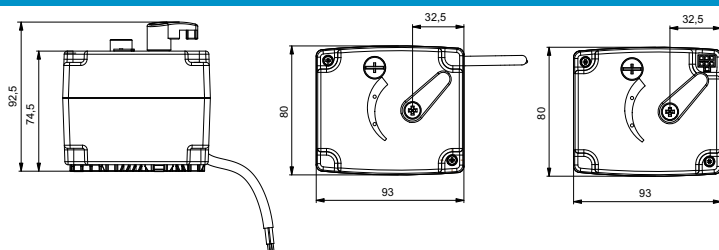


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for 3-way and 4-way mixing valves

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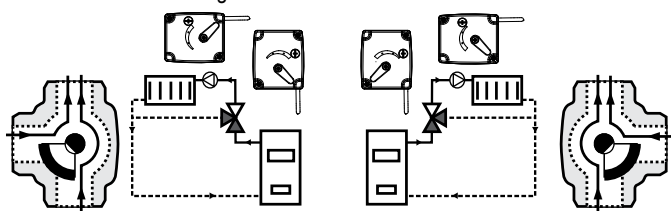


S11 3P

Code	Type	Voltage [V]	Rotation time [s]	Control signal	Connection	Max. torque [Nm]	Weight [kg]	Price (€)
12902	S11 3P 21500A-K	230 VAC 50 Hz	150s/90°	3-point SPDT	Cable	5 Nm	0,43 kg	
12903	S11 3P 21500A-M	230 VAC 50 Hz	150s/90°	3-point SPDT	Molex	5 Nm	0,35 kg	
12917	S11 3P 21503A-K	24 VAC 50 Hz	150s/90°	3-point SPDT	Cable	5 Nm	0,43 kg	
12918	S11 3P 21503A-M	24 VAC 50 Hz	150s/90°	3-point SPDT	Molex	5 Nm	0,35 kg	
12923	S11 3P 20750A-K	230 VAC 50Hz	75s/90°	3-point SPDT	Cable	5 Nm	0,43 kg	
12924	S11 3P 20750A-M	230 VAC 50Hz	75s/90°	3-point SPDT	Molex	5 Nm	0,35 kg	
12925	S11 3P 20753A-K	24 VAC 50 Hz	75s/90°	3-point SPDT	Cable	5 Nm	0,43 kg	
12926	S11 3P 20753A-M	24 VAC 50 Hz	75s/90°	3-point SPDT	Molex	5 Nm	0,35 kg	
12919	S11 3P 20500A-K	230 VAC 50Hz	50s/90°	3-point SPDT	Cable	5 Nm	0,43 kg	
12920	S11 3P 20500A-M	230 VAC 50Hz	50s/90°	3-point SPDT	Molex	5 Nm	0,35 kg	
12921	S11 3P 20503A-K	24 VAC 50 Hz	50s/90°	3-point SPDT	Cable	5 Nm	0,43 kg	
12922	S11 3P 20503A-M	24 VAC 50 Hz	50s/90°	3-point SPDT	Molex	5 Nm	0,35 kg	
12935	S11 3P 21500B-K	230 VAC 50 Hz	150s/90°	3-point SPDT	Cable	10 Nm	0,46 kg	
12936	S11 3P 21500B-M	230 VAC 50 Hz	150s/90°	3-point SPDT	Molex	10 Nm	0,38 kg	
12937	S11 3P 21503B-K	24 VAC 50 Hz	150s/90°	3-point SPDT	Cable	10 Nm	0,46 kg	
12938	S11 3P 21503B-M	24 VAC 50 Hz	150s/90°	3-point SPDT	Molex	10 Nm	0,38 kg	
12943	S11 3P 20750B-K	230 VAC 50 Hz	75s/90°	3-point SPDT	Cable	10 Nm	0,46 kg	
12944	S11 3P 20750B-M	230 VAC 50 Hz	75s/90°	3-point SPDT	Molex	10 Nm	0,38 kg	
12945	S11 3P 20753B-K	24 VAC 50 Hz	75s/90°	3-point SPDT	Cable	10 Nm	0,46 kg	
12946	S11 3P 20753B-M	24 VAC 50 Hz	75s/90°	3-point SPDT	Molex	10 Nm	0,38 kg	
12939	S11 3P 20500B-K	230 VAC 50 Hz	50s/90°	3-point SPDT	Cable	10 Nm	0,46 kg	
12940	S11 3P 20500B-M	230 VAC 50 Hz	50s/90°	3-point SPDT	Molex	10 Nm	0,38 kg	
12941	S11 3P 20503B-K	24 VAC 50 Hz	50s/90°	3-point SPDT	Cable	10 Nm	0,46 kg	
12942	S11 3P 20503B-M	24 VAC 50 Hz	50s/90°	3-point SPDT	Molex	10 Nm	0,38 kg	

Installation examples

S11 3P actuator with mixing valve.

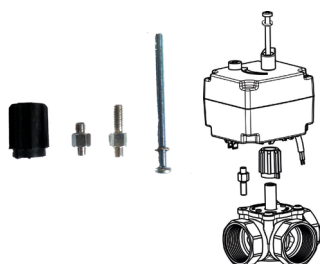


Features and options

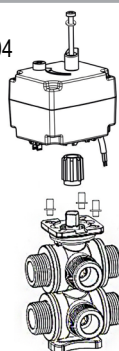
- **Power supply:** 230 VAC 50 Hz or 24 VAC 50 Hz
- **Different running times:** 150s/90°, 75s/90°, 50s/90°
- **Control signal:** 3-point
- **Connection:** cable 1,5 m (3x0,75 mm²) / Molex connector
- **Mounting kits** for assembling on mixing valves of other manufacturers

Adapter kits

Enclosed mounting kit, code 58104:
For FMV 130E and 140E



Optional mounting ISO F04 kit, code 58106: For FBV 660 and ISO 5211 F04



Optional mounting kit, code 58024: FIRŠT (ROTOMIX, ROTOMIX G), ESBE (VRG, VRB), LK ACASO (TERMOMIX), BARBERI, FEROTERM, PAW, EURONORM, ESBE, IMP, DANFOSS, BESSER, SELTRON, LOVATO, TUXHORN, STRAWA, CIMBERIO



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