

Rotary actuator in connection with a mounting kit for the motorisation of the most common mixing valves in HVAC systems

- Torque motor 10 Nm
- Nominal voltage AC 230 V
- Control 3-point
- with integrated auxiliary switch
- Running time motor 140 s



Technical data

Nominal voltage frequency 50/60 Hz Nominal voltage range AC 198264 V Power consumption in operation 3.5 W Power consumption for wire sizing 3.5 VA Auxiliary switch 1x SPDT, 0100% Switching capacity auxiliary switch 6 A (2 A inductive), AC 250 V (II, reinforced insulation) Switching points auxiliary switch 6 A (2 A inductive), AC 250 V (II, reinforced insulation) Switching points auxiliary switch Cable 1 m, 3x 0.75 mm² Connection auxiliary switch Cable 1 m, 3x 0.75 mm² Parallel operation No Functional data Torque motor 10 Nm Direction of motion motor clockwise rotation Manual override temporary and permanent gear train disengagement with rotary knob on the housing Angle of rotation 90° Running time motor 140 s / 90° Sound power level, motor 37 dB(A) Duty cycle value 75% (= active time 140 s / operating time 187 s) So Protection class IEC/EN II, reinforced insulation Pertection class IEC/EN II, reinforced insulation Degree of protection IEC/EN Pos	Electrical data	Nominal voltage	AC 230 V
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Connection supply / control Cable 1 m, 3x 0.75 mm² Connection auxiliary switch Cable 1 m, 3x 0.75 mm² Parallel operation No Functional data Torque motor 10 Nm Direction of motion motor clockwise rotation Manual override temporary and permanent gear train disengagement with rotary knob on the housing Angle of rotation 90° Running time motor 140 s / 90° Sound power level, motor 37 dB(A) Duty cycle value 75% (= active time 140 s / operating time 187 s) Position indication Reversible scale plate Protection class IEC/EN II, reinforced insulation Protection class auxiliary switch IEC/EN II, reinforced insulation Degree of protection IEC/EN IP40 EMC CE according to 2014/30/EU Low voltage directive CE according to 2014/35/EU Type of action Type 1.8 Rated impulse voltage supply / control 4 kV Pollution degree 3 Ambient humidity Max. 95% RH, non-condensing Ambient temperature 050°C [32122°F]		Switching capacity auxiliary switch	
Connection auxiliary switchCable 1 m, 3x 0.75 mm²Parallel operationNoFunctional dataTorque motor10 NmDirection of motion motorDirection of motion motorclockwise rotationManual overridetemporary and permanent gear train disengagement with rotary knob on the housingAngle of rotation90°Running time motor140 s / 90°Sound power level, motor37 dB(A)Duty cycle value75% (= active time 140 s / operating time 187 s)Position indicationReversible scale plateProtection class IEC/ENII, reinforced insulationPertection class auxiliary switch IEC/ENII, reinforced insulationDegree of protection IEC/ENIP40EMCCE according to 2014/30/EULow voltage directiveCE according to 2014/35/EUType of actionType 1.BRated impulse voltage supply / control4 kVPollution degree3Ambient humidityMax. 95% RH, non-condensing Ambient temperature050°C [32122°F]		Switching points auxiliary switch	Switching point adjustable 0100%
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Angle of rotation 90° Running time motor 140 s / 90° Sound power level, motor 37 dB(A) Duty cycle value 75% (= active time 140 s / operating time 187 s) Position indication Reversible scale plate Protection class IEC/EN II, reinforced insulation Protection class auxiliary switch IEC/EN II, reinforced insulation Degree of protection IEC/EN IP40 EMC CE according to 2014/30/EU Low voltage directive CE according to 2014/35/EU Type of action Type 1.B Rated impulse voltage auxiliary switch 4 kV Pollution degree 3 Ambient humidity Max.95% RH, non-condensing Ambient temperature 050°C [32122°F]		Direction of motion motor	clockwise rotation
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Safety dataProtection class IEC/ENII, reinforced insulationProtection class auxiliary switch IEC/ENII, reinforced insulationDegree of protection IEC/ENIP40EMCCE according to 2014/30/EULow voltage directiveCE according to 2014/35/EUType of actionType 1.BRated impulse voltage supply / control4 kVRated impulse voltage auxiliary switch4 kVPollution degree3Ambient humidityMax. 95% RH, non-condensingAmbient temperature050°C [32122°F]		Duty cycle value	
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Degree of protection IEC/ENIP40EMCCE according to 2014/30/EULow voltage directiveCE according to 2014/35/EUType of actionType 1.BRated impulse voltage supply / control4 kVRated impulse voltage auxiliary switch4 kVPollution degree3Ambient humidityMax. 95% RH, non-condensingAmbient temperature050°C [32122°F]	Safety data	Protection class IEC/EN	II, reinforced insulation
EMCCE according to 2014/30/EULow voltage directiveCE according to 2014/35/EUType of actionType 1.BRated impulse voltage supply / control4 kVRated impulse voltage auxiliary switch4 kVPollution degree3Ambient humidityMax. 95% RH, non-condensingAmbient temperature050°C [32122°F]		Protection class auxiliary switch IEC/EN	II, reinforced insulation
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Type of actionType 1.BRated impulse voltage supply / control4 kVRated impulse voltage auxiliary switch4 kVPollution degree3Ambient humidityMax. 95% RH, non-condensingAmbient temperature050°C [32122°F]		EMC	CE according to 2014/30/EU
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Pollution degree3Ambient humidityMax. 95% RH, non-condensingAmbient temperature050°C [32122°F]		Rated impulse voltage supply / control	4 kV
Ambient humidityMax. 95% RH, non-condensingAmbient temperature050°C [32122°F]		Rated impulse voltage auxiliary switch	4 kV
Ambient temperature 050°C [32122°F]		Pollution degree	3
		Ambient humidity	Max. 95% RH, non-condensing
Storage temperature 20, 20°C [32, 176°F]		Ambient temperature	
-5080 C [-221/6 F]		Storage temperature	-3080°C [-22176°F]
Servicing maintenance-free		Servicing	maintenance-free

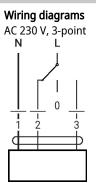


Technical data			
Weight	Weight 0.53 k	α	
-		5	
Housing colours	Housing cover orang	e	
	Housing base orang	e	
Safety notes			
Â	 This device has been designed for use in stationary l systems and must not be used outside the specified or in any other airborne means of transport. The actuator is to be protected against moisture. It i To calculate the torque required, the specifications s manufacturer must be observed. Only authorised specialists may carry out installation installation regulations must be complied with durir The installer must check for correct principle of oper The device does not contain any parts that can be re The device contains electrical and electronic comport household refuse. All locally valid regulations and re Caution: Power supply voltage! 	field of application, especially in aircraf is not suitable for outdoor applications. supplied by the mixing valve n. All applicable legal or institutional ng installation. ration after installation. eplaced or repaired by the user. nents and must not be disposed of as	
Product features			
Operating mode	The actuator is activated with a 3-point signal.		
Simple direct mounting	Simple direct mounting with only one screw. The stud bolt included in delivery serves as an anti-rotation device. The mounting orientation can be freely selected in steps of 90°.		
Manual override	Manual override with lever possible. Temporary gear train disengagement by pushing the rotary knob. Permanent disengagement by pushing and simultaneous rotating the rotary knob clockwise 90°.		
High functional reliability	The actuator switches off automatically when the end stops are reached.		
Accessories			
Mechanical accessories	Description	Time	
	Mounting kit for LK mixing valve	Type MS-NRA	
	Mounting kit for Barberi mixing valves	MS-NRB	
	Mounting kit for Honeywell/Centra DRMA mixing val		
	Mounting kit for Honeywell/Centra DRU mixing valve		
	Mounting kit for mixing valves with 12 mm round sha	ft MS-NRE	
	Mounting kit for ESBE mixing valves VRG/VRB/VRH	MS-NRE6	
	Mounting kit for Hora mixing valves	MS-NRH	
	Mounting kit for Siemens/Landis&Stäfa mixing valves	VCI/VBG/VBF MS-NRL	
	Mounting kit for Lazzari mixing valves	MS-NRLA	
	Mounting kit for Lovato mixing valves	MS-NRLO	
	Mounting kit for Satchwell MB mixing valves	MS-NRS	
	Mounting kit for Satchwell MBF mixing valves	MS-NRSF	
Electrical installation			
\wedge	Caution: Power supply voltage!		

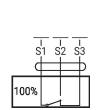




Electrical installation

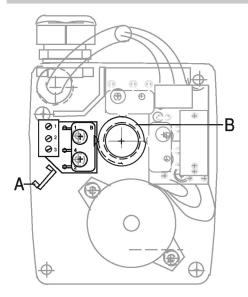


Auxiliary switch

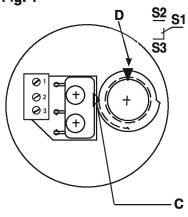


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Operating controls and indicators









Dimensions

