EBA SERIES BALL VALVE ELECTRONIC RETURN ACTUATOR

2 Point Control 10 Nm



EBA...10 (S1) HN SERIES

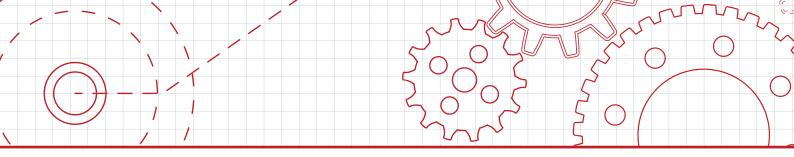
EBA electronic return ball valve actuators are especially designed and produced for applications in the HVAC systems. Our wide range of standard valve actuators has been developed to operate and position ball valves of different sizes.

PRODUCT FEATURE

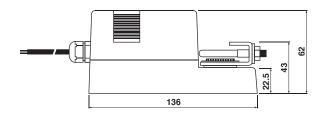
- Torque 10 Nm
- Valve size DN40(11/2") / DN50(2")
- Power supply AC/DC 24 V and AC 230 V
- Shaft dimensions □ 9.0 mm (fixed)
- Selectable direction of rotation of reversing actuator
- Actuator with 1 m cable connection

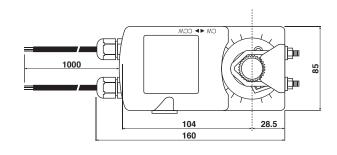
MODEL SELECTION TABLE

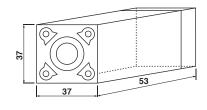
MODEL /TYPE	TORQUE	POWER SUPPLY	RUNNING TIME	RETURN	AUXILIARY SWITCH
EBA 1-10 HN	10 Nm	AC/DC 24V ± 10%	6570 sec	40 sec	-
EBA 1-10S1 HN	10 Nm	AC/DC 24V ± 10%	6570 sec	40 sec	1 x SPDT (Adjustable)
EBA 2-10 HN	10 Nm	AC 230V ± 10%	6570 sec	40 sec	-
EBA 2-10S1 HN	10 Nm	AC 230V ± 10%	6570 sec	40 sec	1 x SPDT (Adjustable)



DIMENSION (mm)





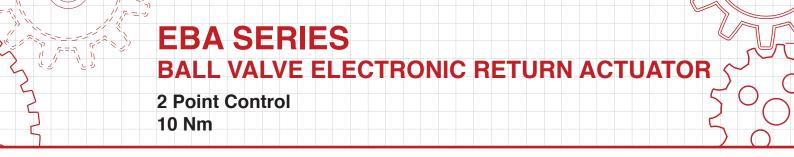


TECHNICAL SPECIFICATION

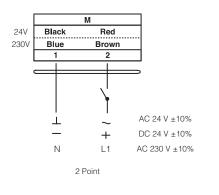
MODEL NUMBER	EBA 1-10 (S1) HN	EBA 2-10 (S1) HN	
TORQUE	10 Nm	10 Nm	
VALVE SIZE	DN40(1½") / DN50(2")	DN40(11/2") / DN50(2")	
SHAFT DIMENSION	□ 9.0 mm (fixed)*	□ 9.0 mm (fixed)*	
POWER SUPPLY	AC/DC 24 V ± 10%	AC 230 V ± 10%	
FREQUENCY	5060 Hz	5060 Hz	
CONTROL SIGNAL	2 point control	2 point control	
POWER CONSUMPTION			
• OPERATING	2.0 W	1.0 W	
END POSITION	3.0 W	1.0 W	
FOR WIRE SIZING	6.0 VA	4.0 VA	
ELECTRICAL CONNECTION	1 m Cable	1 m Cable	
AUXILIARY SWITCH RATING	2 (1.5) A, AC 250 V	2 (1.5) A, AC 250 V	
PROTECTION CLASS	Class III	Class II 🗆	
ANGLE OF ROTATION	90° (95° mechanical)	90° (95° mechanical)	
WEIGHT	1.1 Kg	1.1 Kg	
LIFE CYCLE	60,000 Rotation	60,000 Rotation	
SOUND LEVEL	40 dB	40 dB	
IP PROTECTION	IP54	IP54	
OPERATING TEMPERATURE	-30°50° as per IEC 721-3-3	-30°50° as per IEC 721-3-3	
NON-OPERATING TEMPERATURE	-30°+60° C / IEC 721-3-2	-30°+60° C / IEC 721-3-2	
AMBIENT HUMIDITY	5%95% rH non condensing / EN	5%95% rH non condensing / EN	
MAINTENANCE	Maintenance Free Maintenance Free		
MODE OF OPERATION	Type I / EN 60730-1	Type I / EN 60730-1	
EMC	CE & ISO 9000 EN / EEC	CE & ISO 9000 EN / EEC	

*Note that shaft dimension has a tolerance offset of \pm 0.2mm.

EBA SERIES BALL VALVE ELECTRONIC RETURN ACTUATOR 10Nm

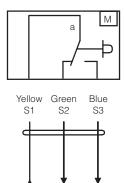


WIRING DIAGRAM EBA...10 (S1) HN POWER SUPPLY AC/DC 24 V OR AC 230V



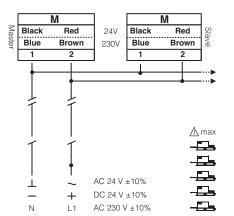
A Connect via safety isolating transformer

WIRING DIAGRAM EBA...10 (S1) HN AUXILIARY SWITCH



2 (1.5) A, AC 250 V Actuator at 0° position

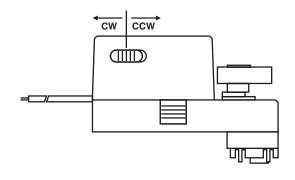
WIRING DIAGRAM EBA...10 (S1) HN PARALLEL CONNECTION



DIRECTION OF ROTATION EBA...10 (S1) HN

Default factory setting: CCW.

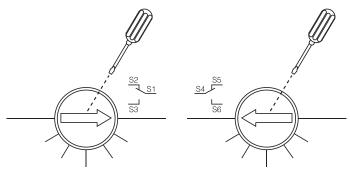
Direction of rotation can be change by toggling between CW/ CCW switch on the actuator's housing.



AUXILIARY SWITCH EBA...10 (S1) HN

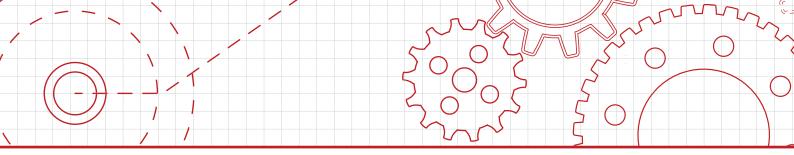
Switch **a** factory-set at 5° and 85°.

The auxiliary switch can be optimally adjusted between $0^{\circ}...90^{\circ}.$



REMARK

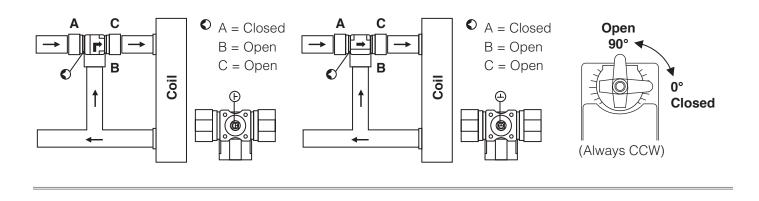
Parallel connection of EBA... 10 (S1) HN actuators are limited to 5. Power consumption must be observe.

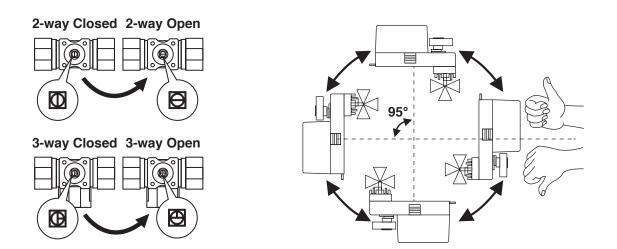


MIXING CLOSED

MIXING OPEN

ACTUATOR POSITION





IMPORTANT REMARK

For special requirement, consult your local Swisotec's representative.

This actuator includes electrical and electronic components and may not be disposed as household garbage. Please consider the local valid legislation.
AC / DC 24 V:
Connect via safety isolating transformer.
To isolate from the main power supply, the system must incorporate a device which disconnects the phase conductor (with at least a 3mm contact gap.)

The performance specifications are nominal and conform to acceptable industry standards. Swisotec shall not be liable for damages resulting from misapplication or misuse of its products.