

SERIES 10



BASIC SERIES

- Very compact housing offering 10Nm torque output. Ideal for actuating your small bore valve sizes, such as brass, stainless or PVC ball valves.
- Multi Voltage 24VAC/DC or 95-265VAC voltage range, reducing stock required to be held to cover possible on site voltages.
- Fast Acting as standard with a Run Time of 5 seconds with option of 1 second version available.
- Available with internal super capacitor fitted for Failsafe functionality.

Version 001: 3/10/22 subject to change without notice

Technical Specifications											
Rated Torque Nm (in.lbs):	12Nm Break (106) / Run 10Nm (88)	Enclosure:	PC+ PET Plastic Housing **								
ISO 5211:	F03/05 x 11mm Output Drive	LED Status Light:	Yes, RGB Open, Close, Alarm.								
Voltage Range:	24VAC/DC, 95-265VAC, 12VDC	Run Time no load:	5 seconds								
Connecting Cable:	0.8m pre wired AC300V rated 7 core*	IP Rating:	IP67 / Nema 4x								
Working Angle Range:	0-270 degrees. Set via internal cams.	Temperature Range:	-20 > +80C ***								
Duty Cycle:	75% rated	Shock Resistance:	<300m/S2								
Sound Power Level:	Max50dB(A)	Vibration Rating:	10 to 55Hz, 1.5mm double amplitude								
Position Indicator:	Mechanical Flat Window. See above	Installation :	Vertical/Horizontal - not underslung								
Withstand Voltage:	500VAC for 1 minute.	Maintenance:	Maintenance Free - do not remove cover								
Insulation Resistance: 100MΩ/ 500VDC		Approvals:	TUV CE & EMC Certified, REACH, RoHS ****								
Explosion Proof:	No, not to be used in a hazardous location. Can only be used in safe area applications.										

- * Standard cable length is 0.8m, we can supply extended cables to the required length. Note cable extension at additional cost
- ** PC+PET plastic housing as standard. Aluminium cover will be made available for the Series 10 in the near future.
- *** Note that we can extend the lower temperature range through special lubricant and grease and upgraded heater system. Speak to your sales representative.
- **** AVA has began the process to have all of our electric actuators approved for UL and CSA

	Ма	in Order	ing C	Codes for I	Basic	Series:	Example : B106-PHB-11							
	S	eries >	Fu	ınction >		Voltage >	F	lousing >		Heater >		Wiring >		out Drive>
	В	Basic	10	On Off	1	220VAC	Р	*PC+PET	Н	*Included	А	3 Wire SPST	11	11mm
ľ			14	Failsafe	2	110VAC	А	Aluminium	0	Without	В	*3 Wire SPDT		
			19	Hi Speed	3	24VAC					G	2 wire		
	*For single voltage actuators, the actuator will not have an LED light. For multi voltage actuators the LED is standard. For 1 second operation, this is only available			4	24VDC	ا ا	New New	featur	e, we are adding	a QR lai	QR label to all of our products that will to have quicker and more direct access to ew purpose built QR website. Simpur Smart phone camera and you will be			
				5	95-265VAC		I supp	ort do	cuments via our r	new pu				
	with 24VDC single voltage motor. All actuators are as standard supplied with a heater.				6	24VAC/DC	It is can the QR code using your Smart phone camera and you will be taken directly to the specific actuator you have on site and will have access to Technical Datasheets, Firmware guides and product support videos.						e -	
	ССРР		100101.		7	12VDC						English version. Availa	able in Spani	ish



SERIES 10

SMART SERIES

- Introduces OLED screen with colour display, providing the user with visual display of actuator status including any Alert conditions that might occur.
- SmartMenu provides onboard Firmware and enables user to change certain parameters in the actuator including speed, angle, accuracy.
- Local Control as standard allows the user to operate the actuator open > close via the touch buttons.
- Increased functionality including Modulating, Failsafe Modulating, Modulating Hi Speed.
- For Multi Turn, Modbus and Timer series, see Series 20>110.



Technical Specifications:										
Rated Torque Nm (in.lbs):	12Nm Break (106) / Run 10Nm (88).	Alarm Relay:	Yes, option for fault alarm output							
ISO 5211:	F03/05 x 11mm Output Drive	LED Status Light:	Yes, RGB Open, Close, Alarm.							
Voltage Range:	24VAC/DC, 95-265VAC, 12VDC	Run Time no load:	5 seconds							
Connecting Cable:	0.8m pre wired AC300V rated 7 core*	3 Position Function:	Yes, setup via SmartMenu firmware							
Working Angle Range:	0-270 degrees. Set via digital encoder. Working angle can be digitally set via SmartMenu firmware.									
Duty Cycle:	75% rated - 100% rated for Modulating	Brushless Motor:	Yes, DC brushless motor							
Sound Power Level:	Max50dB(A)	Modulating Control:	Pre set at factory where applicable.							
Position Indicator:	Mechanical connected to digital encoder sensor	for accurate position se	ensing.							
Local Control:	Yes via SmartMenu using touch buttons Reverse Acting: Yes, set via SmartMenu									
Speed Control:	PWM or PULSE speed control via SmartMenu	Fail to 3rd Position:	Yes, set via SmartMenu							
Explosion Proof:	No, not to be used in a hazardous location. Can only be used in safe area applications.									

^{**} See previous page for details on options available on pre wired cable lengths, temperature rating, cover and upcoming approvals.

	See previous page for details on options available on pre-wired cable lengths, temperature rating, cover and upcoming approvals.													
	Mair	n Orderi	ng C	odes for Smart Serie	es: Example : S1010-6PHB-11									
	Se	Series > Function >		Voltage >		Housing >		Heater >		Wiring >		Output Drive		
	S10	Smart	10	On Off	4	24VDC	Р	PC+PET	Н	Included	Е	3 wire SPDT	11	11mm
			14	Failsafe	5	95-265VAC	А	Aluminium	0	Without	Р	4-20mA	Ala	arm Relay>
			19	Hi Speed	6	24VAC/DC			_		U	0-10V	А	Alarm
			25	Modulating	7	12VDC					V	2-10V		
			26	Modulating Failsafe			,				W	RS485 Modbus		
			29	Modulating Hi Speed								J		
			31	Modbus On Off	*For Smart series we only offer Multi Voltage versions, unless Hi Speed 24 second run time. Note that we cannot currently offer Hi Speed Failsafe								1	
			34	Modbus Failsafe						,				
			35	Modbus Modulating										



SERIES 10

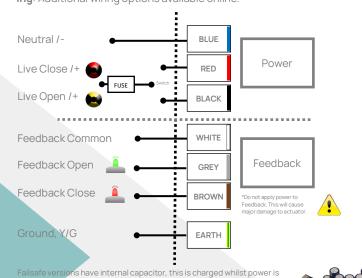
POWER & WIRING

All you need to know for sizing the correct power supply for the actuators you are installing including the power requirements when the actuator is running and what we would call Peak or maximum power requirements.



Power Ratings for most common series: including run torque and peak current for sizing power supply												
Code	Voltage	Power	Time	Fuse	Peak	Code	Voltage	Power	Time	Fuse	Peak	
B105-PHB-11	95-265VAC	12W	5s	1A	100W	S1025-5PHP/U-11	95-265VAC	12W	5s	1A	100W	
B106-PHB-11	24VAC/DC	12W	5s	5A	100W	S1025-6PHP/U-11	24VAC/DC	12W	5s	5A	100W	
B145-PHB-11	95-265VAC	20W	5s	1A	100W	S1026-5PHP/U-11	95-265VAC	20W	5s	1A	100W	
B146-PHB-11	24VAC/DC	20W	5s	5A	100W	S1026-6PHP/U-11	24VAC/DC	20W	5s	5A	100W	
B195-PHB-11	95-265VAC	50W	3s	1A	100W	S1029-5PHP/U-11	95-265VAC	50W	4s	1A	100W	
B194-PHB-11	24VDC	50W	1s	5A	100W	S1029-4PHP/U-11	24VDC	50W	4s	5A	100W	
S1010-5PHE-11	95-265VAC	12W	5s	1A	100W	S1031-5PHW-11	95-265VAC	12W	5s	1A	100W	
S1010-6PHE-11	24VAC/DC	12W	5s	5A	100W	S1031-6PHW-11	24VAC/DC	12W	5s	5A	100W	
S1014-5PHE-11	95-265VAC	20W	5s	1A	100W	S1034-5PHW-11	95-265VAC	20W	5s	1A	100W	
S1014-6PHE-11	24VAC/DC	20W	5s	5A	100W	S1034-6PHW-11	24VAC/DC	20W	5s	5A	100W	
S1019-5PHE-11	95-265VAC	50W	3s	1A	100W	S1035-5PHW-11	95-265VAC	50W	5s	1A	100W	
S1019-4PHE-11	24VDC	50W	1s	5A	100W	S1035-6PHW-11	24VDC	50W	5s	5A	100W	

Standard On Off, Failsafe and Hi-Speed Open/Close Wiring: Additional wiring options available online.



applied. When power is removed, the actuator will close or open depending on what you have ordered. Re-apply power and the capacitor will charge again and is always being charged when power is applied. When actuator is powered, heater is working.

Feedback Out

Feedback Common

WHITE

Control & Feedback

Feedback

Input In

Ground, Y/G

BROWN

Control & Feedback

RED

Standard Modulating including Failsafe and Hi-Speed Wiring: Additional wiring options available online.

FUSE

Power

Note that Black is not used as standard unless Alarm Relay option is selected. Separate wiring schematic available for actuators with alarm. For Series 10, you must order the specific Control you require, you cannot select between Control input via firmware as you can with Series 50-400.

Neutral /-

Live /+



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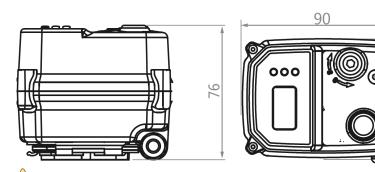
MATERIALS & DIMENSIONS

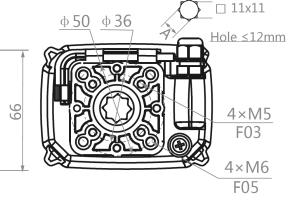
Below are the materials of construction, including any options available for this specific series. Dimensional drawing can also be found below detailing key dimension details including ISO 5211 mounting details.











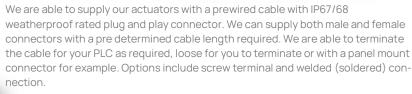


* Note that the Basic and Smart series are the same physical size.











To access our website for additional support documents, contact information and latest news, simply scan the QR code. You can find our list of official distributors at our website.

