

## COMPACT QUARTER TURN ELECTRIC ACTUATOR

### AVA-S6014 SMART FAILSAFE 50Nm

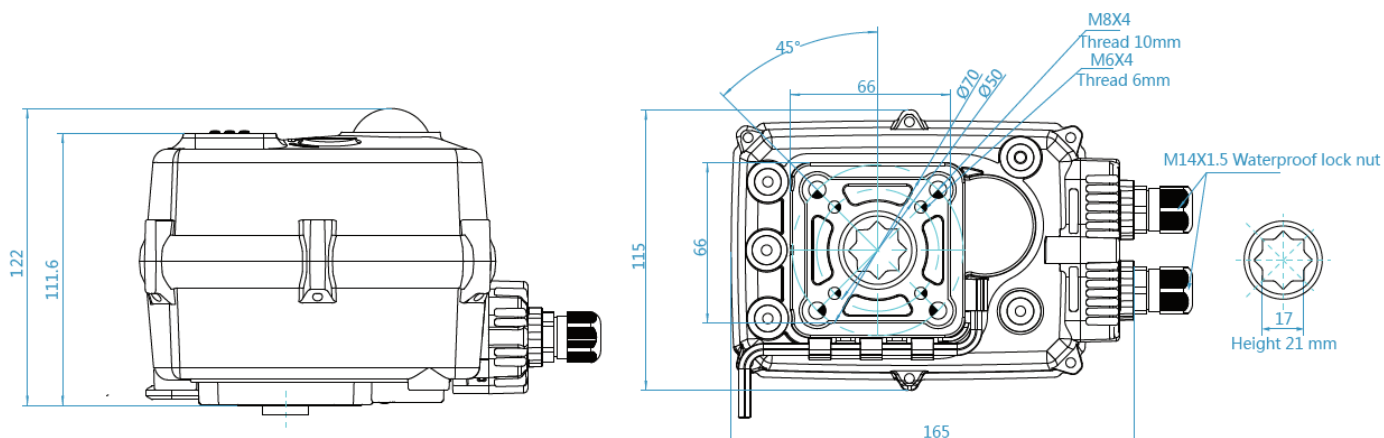


Model:	AVA-S6014 50Nm SMART FAILSAFE ELECTRIC ACTUATOR			
	AC	AC/DC	DC	DC
Rated Voltage	AC230V	AC/DC 24V	24VDC	N/A
Voltage Range	AC 95-265V/DC100-300V	AC18-26/DC22-32V	DC22-32V	N/A
Consumption	30W run, 3.9W hold	30W run, 3.9W hold	28W run, 2.10W hold	N/A
Peak current	0.52A @ 5ms 230V	4.5A @ 5ms 24VDC	4.5A for 5ms 24VDC	N/A
Fuse	2A	5A	10A	N/A
Maximum Break Torque Nm	60			N/A
Run & Reseat Torque Nm	50			N/A
Manual operation	Yes, by hexagonal wrench (supplied in clip) when no power. Local control via touch buttons under power.			
Run time	≈ 12 sec			≈ 12 secs
STANDARD FEATURES:				
Operating frequency	AC not continuous, 75% duty cycle but recommend allowing ≥1 min between cycles. DC is continuous.			
Position confirmation	Mechanically driven dome style visual 2 colour indicator			
Mounting restriction	None, can be mounted at any angle. Leave room for space to operate manually, and for electrical connection			
End Position indication	Micro-switches operated by adjustable internal cams , set slightly ahead of the final motor stop position.			
ISO:5211	F05/07 x 17mm octagon x 21mm deep			
Working Angle	Factory set at 90° ±2°, maximum angle of rotation 110° ±2°			
Failsafe Function	Internally fitted industrial battery, charged when power applied. Normally Closed, Open or Stay Put on power loss.			
Ingress protection	IP67			
Max media temp	>+ 80C			
Ambient temp	-20 to +80C			
Non-operating temp	≤ -40C to ≥80C			
Ambient humidity	5-95% RH non-condensing			
Explosion proof	No, prohibited. Do not use in hazardous areas			
Housing	ABS			
Weight	2.2kg			

Dimensions: (mm)

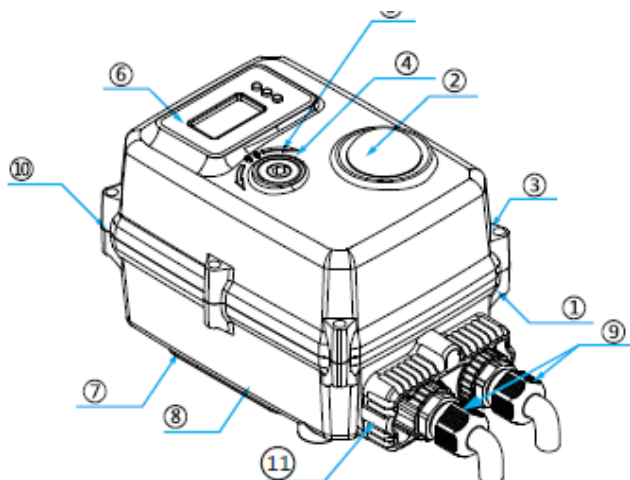
AVA-S6014 50Nm SMART FAILSAFE ELECTRIC ACTUATOR

## Dimension 【Female octagonal】



Materials:

AVA-S6014 50Nm SMART FAILSAFE ELECTRIC ACTUATOR



No	PART	MATERIAL
1	Housing	ABS
2	Indicator	Plastic
3	Screws	304
4	Manual Shaft	304
5	Manual Seal	NBR
6	Label	PVC
7	Allen Key	Steel
8	Base	ABS
9	Connector	Nylon
10	Seal	NBR
11	Terminal Cover	ABS

\* Note that screen only available on Smart series

Part Numbers:

AVA-S6014 50Nm SMART FAILSAFE ELECTRIC ACTUATOR

Model	Voltage	Housing	Heater	Control of on-off function
AVA-6014-	5 AC 95-265V	A ABS	0 None	E SPDT. Switchable +ve/ live Volt free end of travel confirmation
	6 DC 24V		H 5W/24kΩ	F SPDT. Switchable +ve/ live Relay position confirmation and alarm
				G SPST. Switchable +ve/ live Relay position confirmation and alarm

NOTE: UK STANDARD STOCK IS WITH WIRING 'E', ANY OTHERS ARE FACTORY OPTIONS. DETAILS AVAILABLE ON REQUEST.

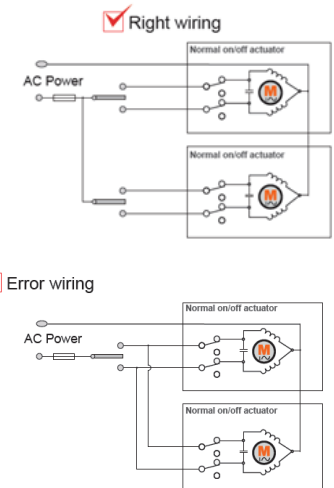
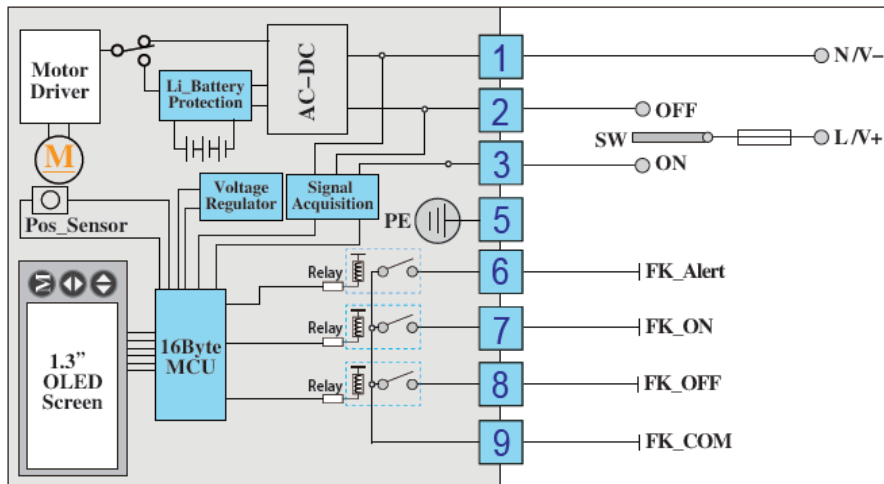


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Details are subject to change without notice in the interests of product development and improvement.

## AC Wiring Diagrams: AVA-S6014 50Nm SMART FAILSAFE ELECTRIC ACTUATOR

SPDT Wiring Type 'B'

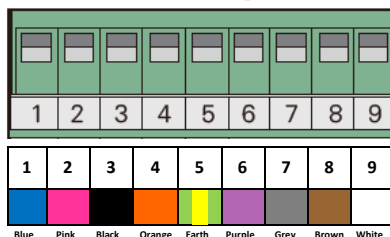


For actuators in parallel.

### Control instructions:

- ☐ SW is connected with **2**, the actuator will rotate clockwise. When the valve is closed, **9** is connect with **8**, giving signal of closing.
- ☐ SW is connected with **3**, the actuator will rotate anticlockwise. When the valve is open, **9** is connect with **7**, giving signal of opening.
- ※ Notice 1: **9** is not connected with **7** and **8**, when the actuator is rotating.
- ※ Notice 2: After power cut, the feedback and fault signal will disappear, **9** is not connected with **8** and **7**.
- ※ When actuator is stuck or switch fails to arrive by other faults, **6** connect with **9**, send alarm signal.

### 9P-5.08 Terminal diagram



### Control instructions:

SW1	SW2	Flow direction	Feedback signal
connect ↗	disconnect ↖	0°	<b>9</b> connect with <b>8</b>
disconnect ↖	connect ↗	90°	<b>9</b> connect with <b>7</b>
connect ↗	connect ↗	180° (could be free set by menu)	<b>9</b> connect with <b>7 8</b>
Alarm single			<b>9</b> connect with <b>6</b>

### Wiring instructions:

1. Fuse: please refer to manual for more parameters.
2. SW switching capability: please refer to manual for more parameters.
3. Feedback signal contact load capacity: 0.1A/250VAC 0.5A/30VDC.
4. Please make sure actuator connect ground reliably.

## OLED SCREEN USER GUIDE: AVA-S6014 50Nm SMART FAILSAFE ELECTRIC ACTUATOR



- M Key: to switch menus
- K2 Key: to switch Flash Item or adjust values
- K3 Key: to modulate numerical value
- Screen 1.3"OLED, Blue word against black background, 128X64

Please ask for separate user guide document detailing screen by screen options, specific to actuator function.



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