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No. 08190322KTN.UU45

KTN
Kara Technology News

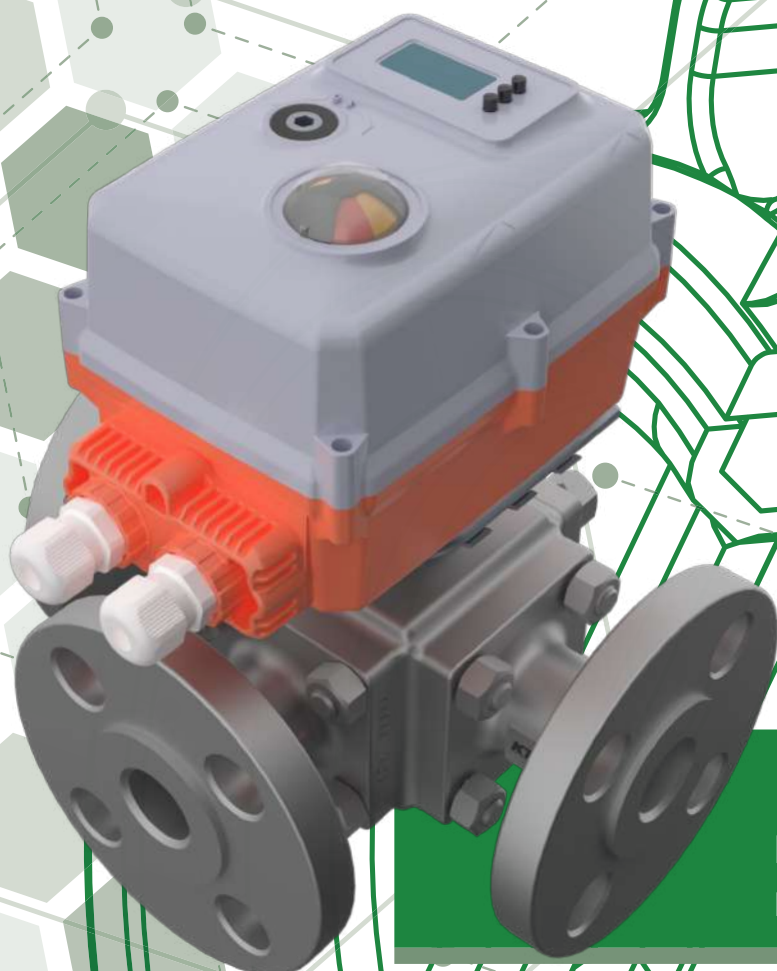


FIG. RGE S80
ELECTRIC ACTUATORS
BASIC / SMART | 80 N.m

KTN RGE SERIES 80

COMPACT ELECTRIC ACTUATOR 50Nm



BASIC SERIES:

- 80Nm torque output makes the Series 80 perfect for slightly larger size ball valves and butterfly valves.
- Introduces 'Wiring Box' and removes pre wired cable.
- Multi Voltage 24VAC/DC or 95-265VAC voltage range, reducing stock required to be held to cover possible on site voltages.
- Fast Acting option of 6 second version available. Standard run time is around 10-12 seconds.
- Available with internal super capacitor fitted for Failsafe functionality.

Technical Specifications

Rated Torque Nm (in.lbs):	90Nm Break (796) / Run 80Nm (708)	Enclosure:	PC+ PET Plastic Housing ** IP67/Nema 4X
ISO 5211:	F05/07 x 17mm Output Drive	LED Status Light:	Yes, RGB Open, Close, Alarm
Voltage Range:	24VAC/DC, 95-265VAC, 12VDC	Run Time no load:	10-12 seconds
Connecting Cable:	2xM14 Conduit Wiring Box	Weight:	2.2Kg (plastic) 3Kg (aluminium)
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 Dome Window. As 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. ⚠		

- * Series 80 doesn't have pre wired cable. Customer to supply and fit own cable as required. However, we can supply prewired, speak to your sales representative.
- ** PC+PET plastic cover as standard. Aluminium cover also available
- *** Note that we can extend the lower temperature range through special lubricant and grease and upgraded heater system. Speak to your sales representative
- **** KTN has began the process to have all of our electric actuators approved for UL and CSA

Main Ordering Codes for Basic Series: *indicates standard options for stock product

Example : B846-PHB-17

Series >	Function >	Voltage >	Housing >	Heater >	Wiring >	Output drive >
B	Basic	80 On Off 1 220 VAC	P PC+PET*	H Included*	A 3 wire SPST	17 17mm*
		84 Failsafe 2 110 VAC	A Aluminium	O Without	B 3 wire SPDT*	
		819 Hi Speed 3 24 VAC			G 2 wire	
		4 24 VDC				
		5 95-265 VAC*				
		6 24VAC/DC*				
		7 12VDC				

*For single voltage actuators, the actuator will not have an LED light. For multivoltage actuators the LED is standard. For 1 second operation, this is only available with 24VDC single voltage motor. All actuators are as standard supplied with a heater. ⚠

KTN RGE SERIES 80

COMPACT ELECTRIC ACTUATOR 50Nm



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, Modbus RS485/RTU, Multi Turn and Timer series.

Technical Specifications

Rated Torque Nm (in.lbs):	90Nm Break (796) / Run 60/80Nm (708)	Alarm Relay:	Yes, option for fault alarm output
ISO 5211:	F05/07 x 17mm Output Drive	LED Status Light:	Yes, RGB Open, Close, Alarm.
Voltage Range:	24VAC/DC, 95-265VAC, 12VDC	Run Time no load:	10-12 seconds
Connecting Cable:	2xM14 Conduit Wiring Box*	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 sensing		
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.

Main Ordering Codes for Smart Series: *indicates standard options for stock product

Example : S8025-6PHP-17

Series >		Function >		Voltage >		Housing >		Heater >		Wiring >		Output drive >	
S80	Smart	10	On Off	4	24 VDC	P	*PC+PET	H	*Included	E	*3 wire SPDT	17	*17mm
		14	Failsafe	5	95-265VAC	A	Aluminium	O	Without	P	4-20mA	Alarm Relay>	
		19	Hi Speed	6	24VAC/DC*					U	0-10V	A	Alarm
		25	Modulating	7	12VDC					V	2-10V		
		26	Modulating failsafe							W	RS485 Modbus		
		29	Modulating Hi Speed										
		31	Modbus On Off										
		34	Modbus Failsafe										
		35	Modbus Modulating										

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COMPACT ELECTRIC ACTUATOR 50Nm

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POWER & WIRING:

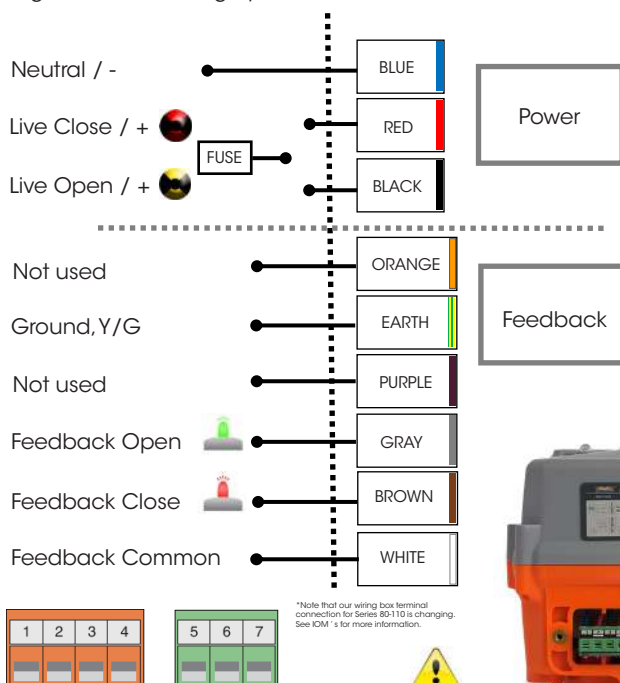
All you need to know for sizing the correct power supply for the actuators you are installing including the power requirements when the actuator is running and what we would call Peak or maximum power requirements.

Our complete range covers **10 - 400Nm**

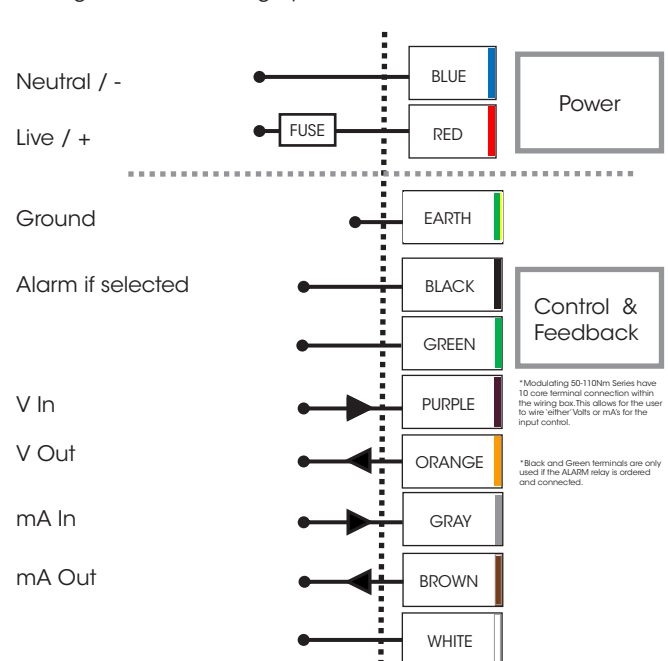
Power Ratings for most common series: including run torque and peak current for sizing power supply

Code	Voltage	Power	Time	Fuse	Peak	Code	Voltage	Power	Time	Fuse	Peak
B805-PHB-11	95-265 VAC	60W	10s	4A	2.5A	S5025-5PHP/U-14	95-265VAC	40W	12s	4A	3A
B806-PHB-11	24VAC/DC	60W	10s	4A	2.5A	S5025-6PHP/U-14	24VAC/DC	40W	12s	4A	3A
B845-PHB-11*	95-265 VAC	60W	10s	4A	2.5A	S5026-5PHP/U-14	95-265 VAC	40W	12s	10A	3A
B846-PHB-11*	24VAC/DC	60W	10s	4A	2.5A	S5026-6PHP/U-14	24VAC/DC	40W	12s	10A	3A
B8195-PHB-11	95-265 VAC	60W	6s	4A	2.5A	S5029-5PHP/U-14	95-265 VAC	40W	5s	10A	3A
B8194-PHB-11	24VDC	60W	6s	4A	2.5A	S5029-4PHP/U-14	24VDC	40W	5s	10A	3A
S8010-5PHE-11	95-265 VAC	60W	10s	4A	2.5A	S5031-5PHW-14	95-265 VAC	40W	12s	4A	3A
S8010-6PHE-11	24VAC/DC	60W	10s	4A	2.5A	S5031-6PHW-14	24VAC/DC	40W	12s	4A	3A
S8014-5PHE-11*	95-265 VAC	60W	10s	4A	2.5A	S5034-5PHW-14	95-265 VAC	40W	12s	10A	3A
S8014-6PHE-11*	24VAC/DC	60W	10s	4A	2.5A	S5034-6PHW-14	24VAC/DC	40W	12s	10A	3A
S8019-5PHE-11	95-265 VAC	60W	6s	4A	2.5A	S5035-5PHW-14	95-265 VAC	40W	12s	4A	3A
S8019-4PHE-11	24VDC	60W	6s	4A	2.5A	S5035-6PHW-14	24VDC	40W	12s	4A	3A

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



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





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.

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

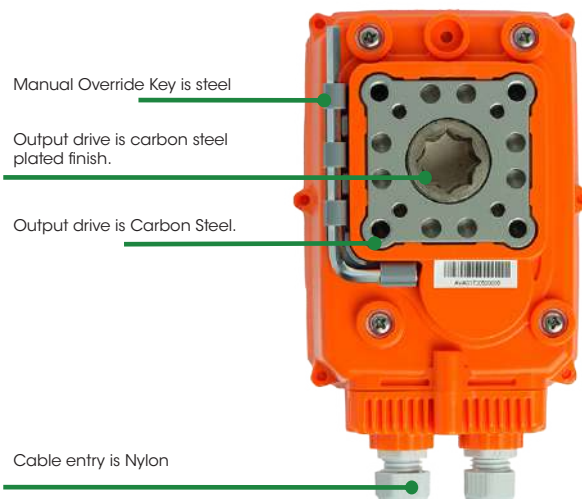


Cover and base is PC+PET

Screen has UV rated cover. Labels are PVC. Touch buttons on Smart series are rubber

Manual override shaft is plated steel, seal is NBR rubber.

Transparent AS plastic dome indicator.

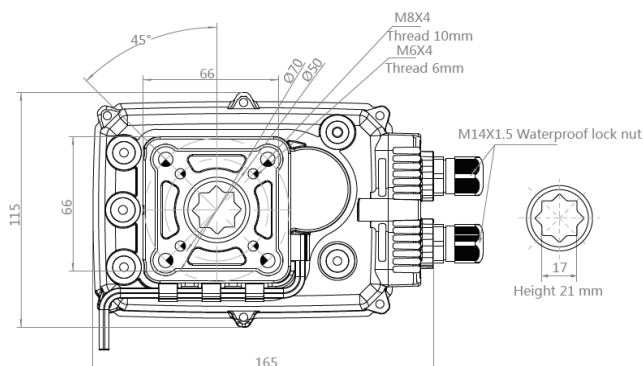
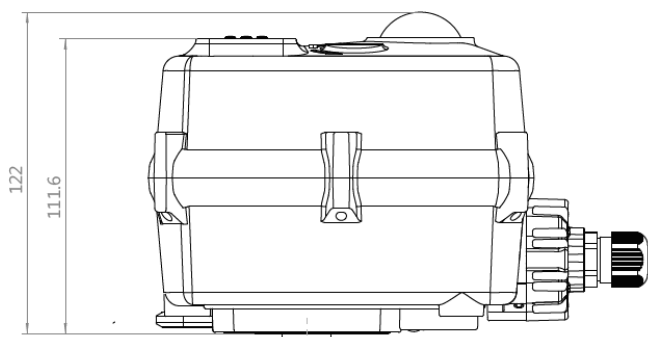


Manual Override Key is steel

Output drive is carbon steel plated finish.

Output drive is Carbon Steel.

Cable entry is Nylon



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



We are able to supply our actuators with a prewired cable with IP67/68 weatherproof rated plug and play connector. We can supply both male and female connectors with a pre determined cable length required. We are able to terminate the cable for your PLC as required, loose for you to terminate or with a panel mount connector for example. Options include screw terminal and welded (soldered) connection.



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