Economic Style Electric Actuator

ITQ Series











ECONOMIC TYPE ITQ ELECTRIC ACTUATOR



ITQ 0020

- Suitable for small 1" ball valve automation.
- Very high efficiency & cyclic life.
- Free voltage (85~265 VAC,1Phase) and optional 24VAC/DC
- Very compact and light weight.

ISO F03 Flange

11X11mm Square Female Shaft with insert 9X9mm

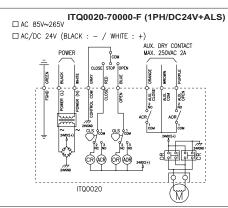
PERFORMANCE

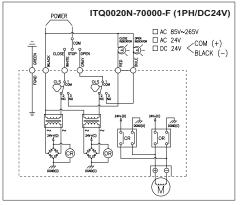
Model	Rate	Duty	Operating		Stem Adaption		Rated	current(۹)	Motor	Weight
	torque	cycle	time		(Square	24	24V		ase	insulation	(kgs)
	(Nm)	(%)	50Hz /60Hz	24DC(No Load)	Female shaft	AC	DC	110	220	class	
ITQ 0020	25	50	11	11	11 X 11 mm	0.60	0.55	0.16	0.08	E	1

STANDARD SPECIFICATION

WIRING

Enclosure	IP66, O-ring Sealed			
Main Power	Free Voltage(110/220VAC/1Ph/50/60Hz)			
Walli Fower	24 VAC/DC			
Duty cycle(on-off)	S2:30min			
Motor	DC motor			
Limit switches	2 ea for Open & Close (5A, 250VAC)			
(Option) Extra Limit switches	Relays for Open & Close (5A, 250VAC)			
Mounting	ISO F03, 11 X 11 - DP12			
Mounting	Square female Shaft with insert 9X9mm			
Travel angle	$90^{\circ}\text{C} \pm 5^{\circ}\text{C}$			
Cable entry & Wiring	1-PG11 Cable gland with wires 30cm long			
Surface protection	Polyester coating			
Ambient temperature	-10°C~ + 65°C			
Humidity(R.H)	90%			

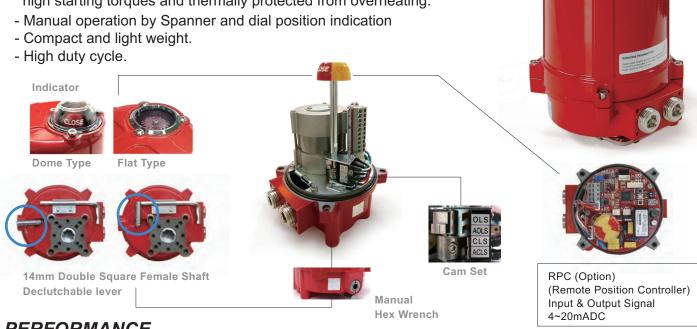




ITQ 0040

- Suitable for on-off small ball /plug valves and damper automation.

- By combination of spur gears, provide very high efficiency
- The motor is a specially designed induction motor that produces high starting torques and thermally protected from overheating.



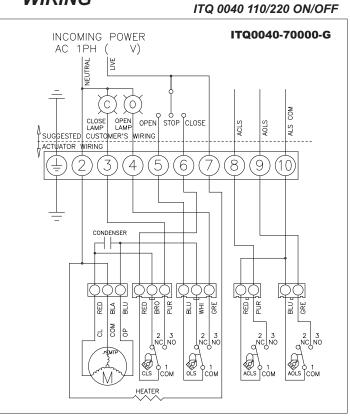
PERFORMANCE

Model	Rate	Duty	Operating time		Stem Adaption	Rated current(A)			current(A) M		Motor	Weight	No of		
	torque	cycle	EOU-	60Hz	24DC	C (Double square		1Phase 3P		3Phase		insulation	(kgs)	handwheel	
	(Nm)	(%)	DUHZ	оини	(No Load)	Female shaft	110	220	380	440	24V	class		turn	
ITQ 0040	40	50	14	12	12	14X14mm	0.27	0.18	N/A	N/A	8.0	E	3	7.5	

STANDARD SPECIFICATION

Enclosure	IP66, O-ring Sealed
Main Power	110/220VAC/1Ph/50/60Hz, 24VDC
Duty cycle(on-off)	S2 : 30min
Duty cycle(modulating)	S4:50%
Motor	Induction motor
Limit switches	2 ea for each travel
Space heater	2W
Manual operation	Declutchable Lever & shaft on bottom
Indicator	Continous Mechanical position indicator
Mounting	ISO F03/F04/F05/07 flange with double square female shaft
T ravel angle	90° ± 5°
Cable entries	2 - M20 X1.5(Option: 2-PF(PT)1/2")
T erminal block	Spring loaded push type
Surface protection	Anodized polyester coating
Ambient temperature	-20°C~+70°C
Humidity(R.H)	90%

WIRING



ECONOMIC TYPE ITQ ELECTRIC ACTUATOR



ITQ 0080

- Newly designed and developed for especially small ball & plug valves and damper automation.
- Self locking combination of spur and worm gears that require no brake
- The motor is a specially designed induction motor that produces high starting torques and thermally protected from overheating
- Mechanical Stopper bolts to provent from over travel
- Easy set cams without special tool.
- Manual operation by wrench directly to the worm gearbox and dial position indication



PERFORMANCE

Model	Rate	Duty	Operating time		Stem Adaption	Rated current(A)			Rated current(A)			Weight	No of		
	torque	cycle	EOLI-	50Hz 60Hz 24DC		(Double square	1Pha	ase	3Phase		DC	insulation	(kgs)	handwheel	
	(Nm)	(%)	DUHZ	оини	(No Load)	Female shaft	110	220	380	440	24V	class		turn	
ITQ 0080	80	50	16	14	12	17X17mm	0.97	0.52	0.52	0.56	3.8	E	3.5	7	

STANDARD SPECIFICATION

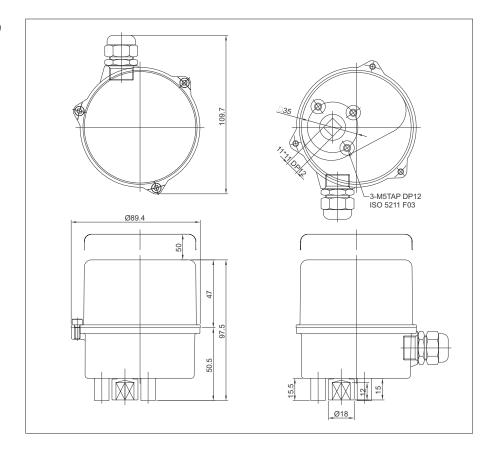
OPTION	AVAILABILE	(0080 Only)
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Enclosure	Weatherproof IP67, O-ring sealed
Main Power	110/220VAC/1Ph/50/60Hz, 380/440VAC/3Ph/50/60/Hz,24VDC
Duty cycle(on-off)	S2: 40%, Max 30 minutes
Motor	S4, 50%, 1200 start/Hour
Duty cycle(modulating)	Induction motor
Limit switches	2 ea for each travel end (1 each as dry contact)
Space heater	3W
Manual operation	By wrench (M6) directly to the worm gear
Indicator	Continous Mechanical position indicator
Mounting	ISO F05 & F07 flange with double square female shaft
Self locking	By means of worm gearing
Travel angle	90° ± 10° by external adjustable mechanical stopper
Cable entries	2 - M20 X 1.5 (option : 2- PF1/2)
Terminal block	Spring loaded push type
Surface protection	Anodized & polyester coating
Ambient temperature	-20°C~+70°C
Humidity(R.H)	90%

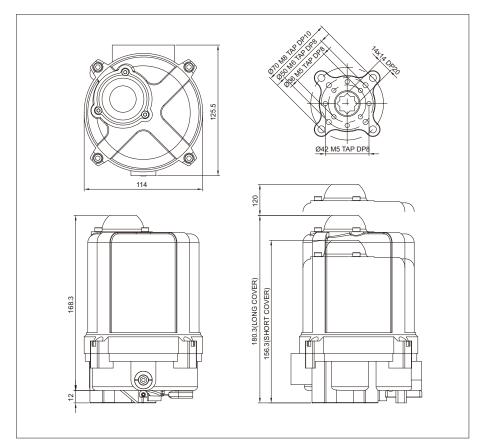
СТ	-Current transmitter (output signal : 4-20mA) -Zero / Span Adjustment
RPC	-Remote position controller (by input and output signal) -Input: 4-20mA, 0-10VDC, 2~10VDC, 1~5VDC, 0~5VDC -Output: 4-20mA, 0-10VDC, *Option: 0-10VDC, 2~10VDC, 1~5VDC, 0~5VDC -Auto-calibration -Reverse operating direction

DIMENSIONAL DRAWING

ITQ 0020







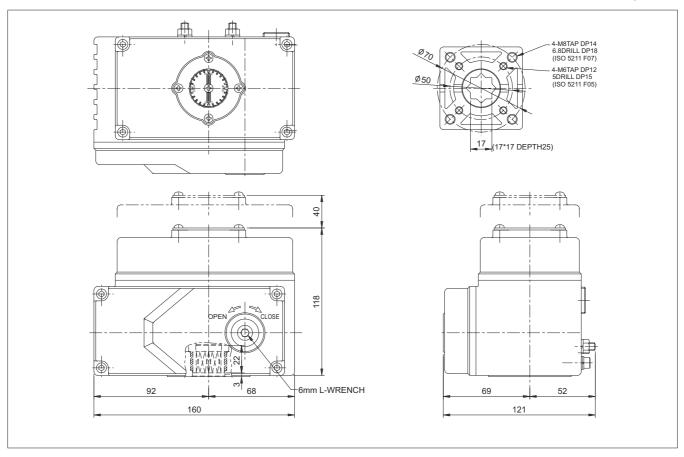
ITQ 0040



ECONOMIC TYPE ITQ ELECTRIC ACTUATOR

DIMENSIONAL DRAWING

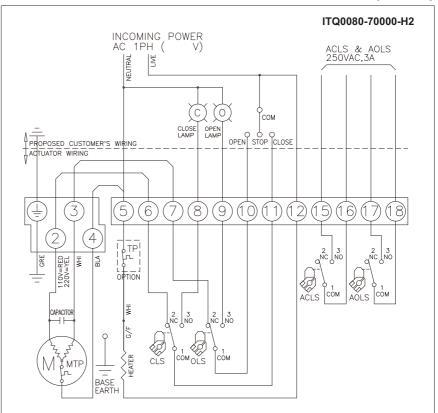
ITQ 0080



WIRING

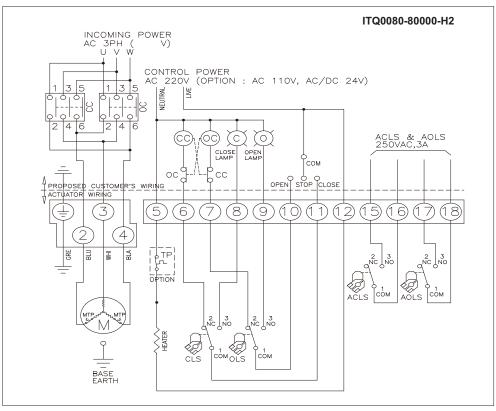
ITQ 0080 110/220 (On-Off)



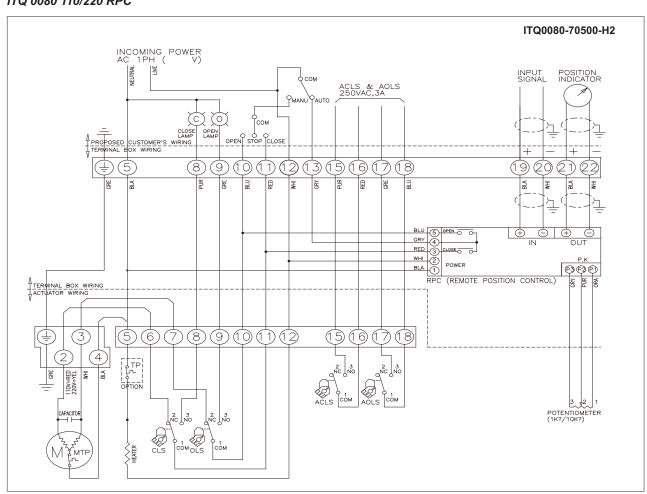


WIRING

ITQ 0080 380/440 ON/OFF



ITQ 0080 110/220 RPC





The details of this catalog are subject to change without prior notification.



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