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Economic Style Electric Actuator

ITQ Series

ITQ

INNOBIZ
기술혁신형중소기업

INTERNATIONAL
BS EN ISO 9001:2000
UKAS QUALITY MANAGEMENT

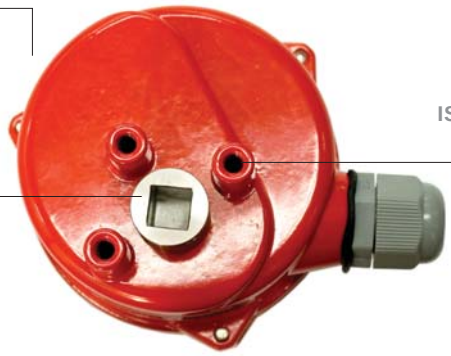
CE KTL

ECONOMIC TYPE ITQ ELECTRIC ACTUATOR

PG11 Cable Gland with Wires

ITQ 0020

- Suitable for small 1” ball valve automation.
- Very high efficiency & cyclic life.
- Free voltage (87~270 VAC,1Phase) and optional 24V AC/DC
- Very compact and light weight.



ISO F03 Flange

9X9mm
Square Female Shaft

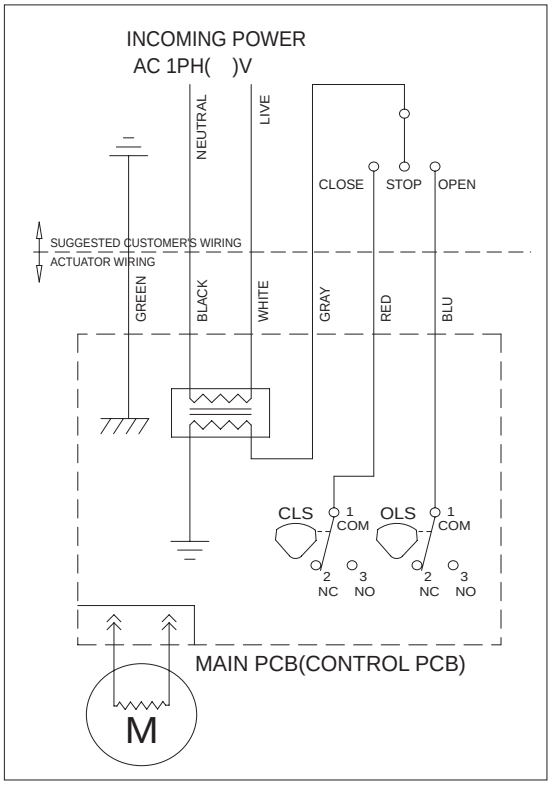
PERFORMANCE

Model	Rate torque (Nm)	Duty cycle (%)	Operating time 50Hz /60Hz	Stem Adaption (Square Female shaft	Rated current 24V AC	Rated current 24V DC	Rated current 1Phase 110	Rated current 1Phase 220	Motor insulation class	Weight (kgs)
ITQ 0020	25	50	11	9 X 9 mm	0.60	0.55	0.16	0.08	E	1

STANDARD SPECIFICATION

Enclosure	IP66, O-ring Sealed
Main Power	Free Voltage (110/220VAC/1Ph/50/60Hz) 24V AC/DC
Duty cycle(on-off)	S2 : 50%
Motor	DC motor
Limit switches	1 ea for Open & Close (5A, 250VAC)
Extra Limit switches	Relays for Open & Close (5A, 250VAC)
Mounting	ISO F03, 9 X 9 - DP12 Square female Shaft
Travel angle	$90^0C \pm 5^0C$
Cable entry & Wiring	1-PG11 Cable gland with wires 30cm long
Surface protection	Polyester coating
Ambient temperature	-10^0C ~ + 65^0C
Humidity(R.H)	90%

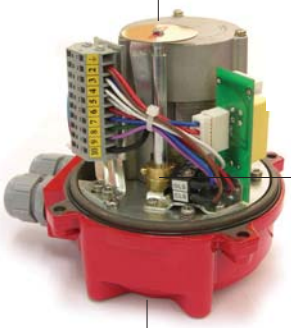
WIRING *ITQ 0020 free voltage (110/220VAC)*



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.
- Manual operation by Spanner and dial position indication
- Compact and light weight.
- High duty cycle.

Indicator



14mm Double Square Female Shaft

Cam Set

PERFORMANCE

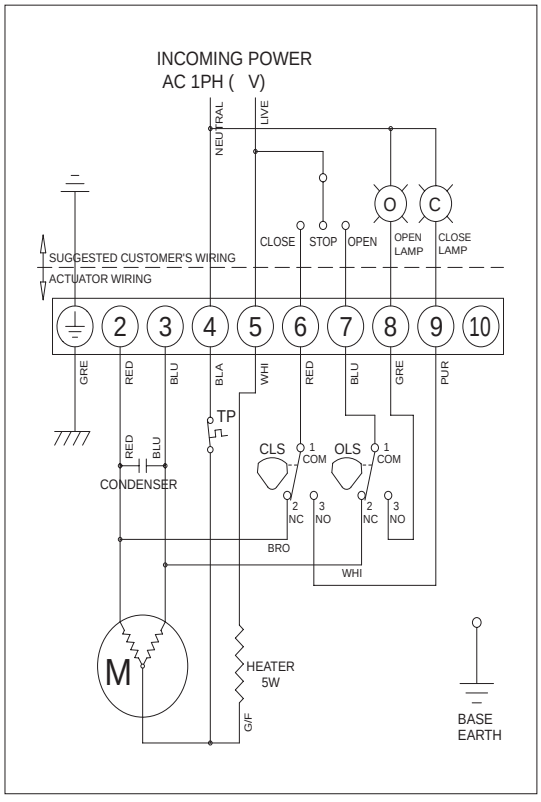
Model	Rate torque (Nm)	Duty cycle (%)	Operating time		Stem Adaption (Double square Female shaft	Rated current					Motor insulation class	Weight (kgs)	No of handwheel turn
						1Phase		3Phase		DC			
			50Hz	60Hz		110	220	380	440	24V			
ITQ 0040	40	50	14	12	14X14mm	0.27	0.18	N/A	N/A	0.8	E	3	7.5

STANDARD SPECIFICATION

Enclosure	IP66, O-ring Sealed
Main Power	110/220VAC/1Ph/50/60Hz, 24V DC
Control power	110/220VAC/1Ph/50/60Hz
Duty cycle(on-off)	S2 : 50%, max 30minutes
Motor	Induction motor
Limit switches	1 ea for each travel (No extra switch)
Space heater	2W
Manual operation	Extruded shaft on bottom
Indicator	Continous Mechanical position indicator
Mounting	ISO F03 & F05 flange with double square female shaft
Travel angle	$90^{o} \pm 10^{o}$
Cable entries	2 - PG 13.5
Terminal block	Spring loaded push type
Surface protection	Anodized polyester coating
Ambient temperature	$-20^{o}C$~$+70^{o}C$
Humidity(R.H)	90%

WIRING

ITQ 0040 110/220 ON/OFF



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 torque (Nm)	Duty cycle (%)	Operating time		Adaption (Double square Female shaft	Rated current					Motor insulation class	Weight (kgs)	No of handwheel turn
						1Phase		3Phase		DC			
			50Hz	60Hz		110	220	380	440	24V			
ITQ 0080	80	50	16	14	17X17mm	0.97	0.52	0.52	0.56	0.8	E	3.5	7

STANDARD SPECIFICATION

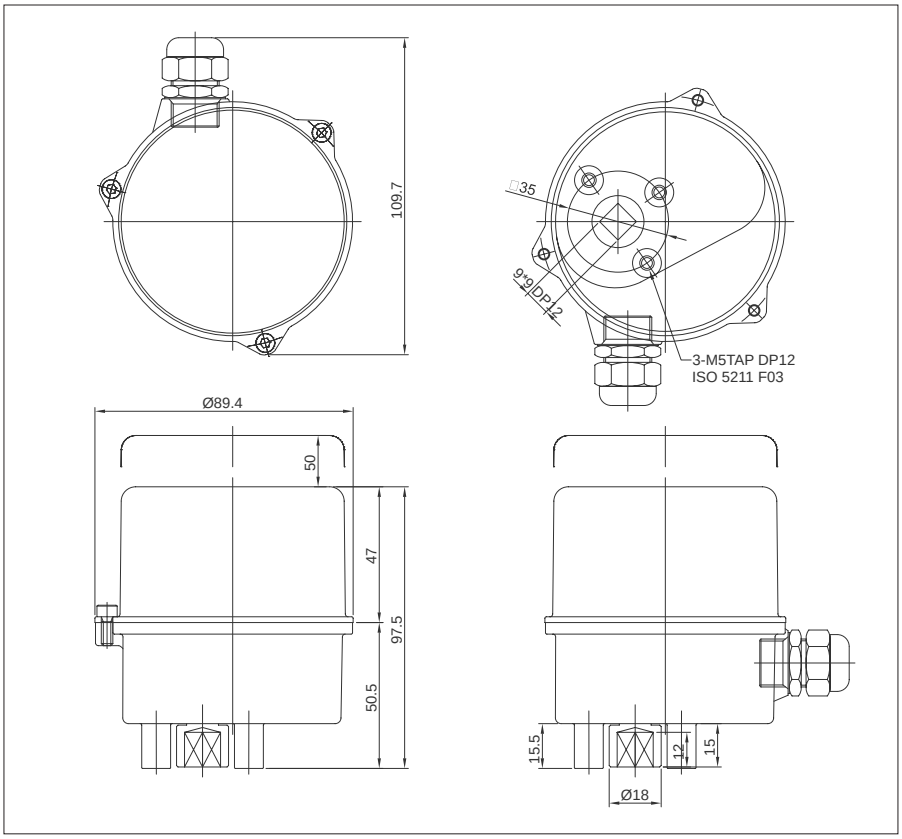
Enclosure	Weatherproof IP67, O-ring sealed
Main Power	110/220VAC/1Ph/50/60Hz, 380/440VAC/3Ph/50/60/Hz,24VDC
Control power	110/220VAC/1Ph/50/60Hz
Duty cycle(on-off)	S2 : 40%, Max 30 minutes
Motor	S4, 50%, 1200 start/Hour
Duty cycle(modulating)	Induction motor
Limit switches	2 ea for each travel end (1 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	$90^0 \pm 10^0$ 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	-20^0C~$+70^0$C
Humidity(R.H)	90%

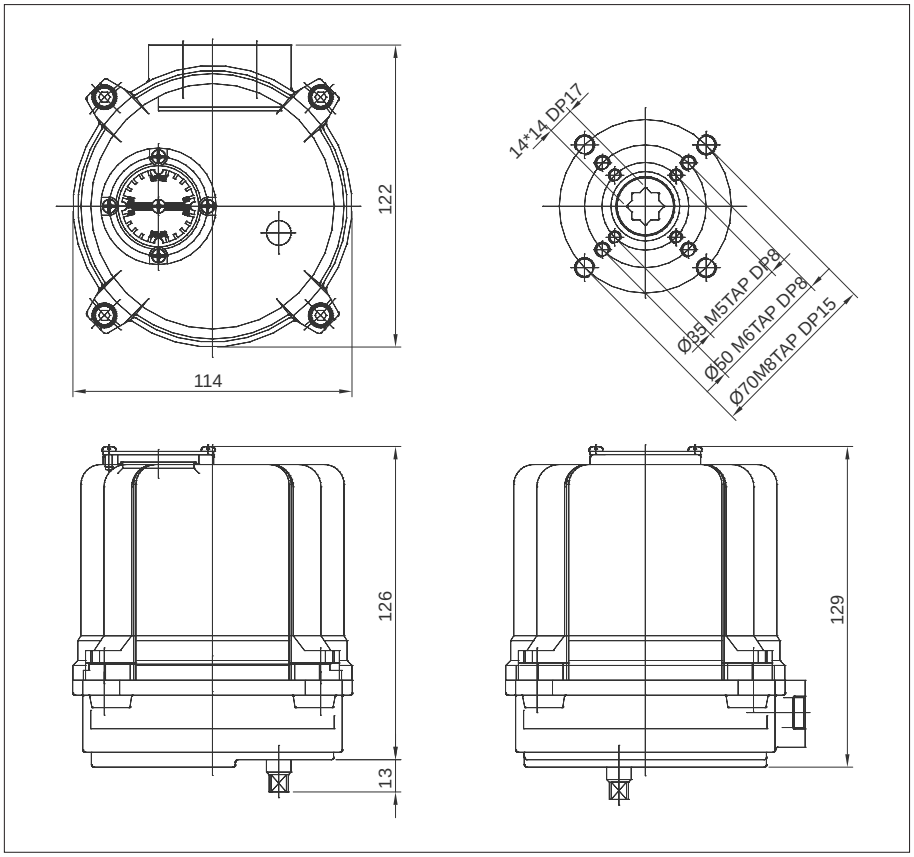
OPTION AVAILABILE (0080 Only)

PK	-Potentiometer kit (output signal : 0~1 Kohm) -High resolution potentiometer
CT	-Current transmitter (output signal : 4-20mA) -Zero / Span Adjustment -Convertable DIP Switch (4 wire to 2 wire)
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, 2~10VDC, 1~5VDC, 0~5VDC -Auto-calibration -Reverse operating direction

DIMENSIONAL DRAWING

ITQ 0020

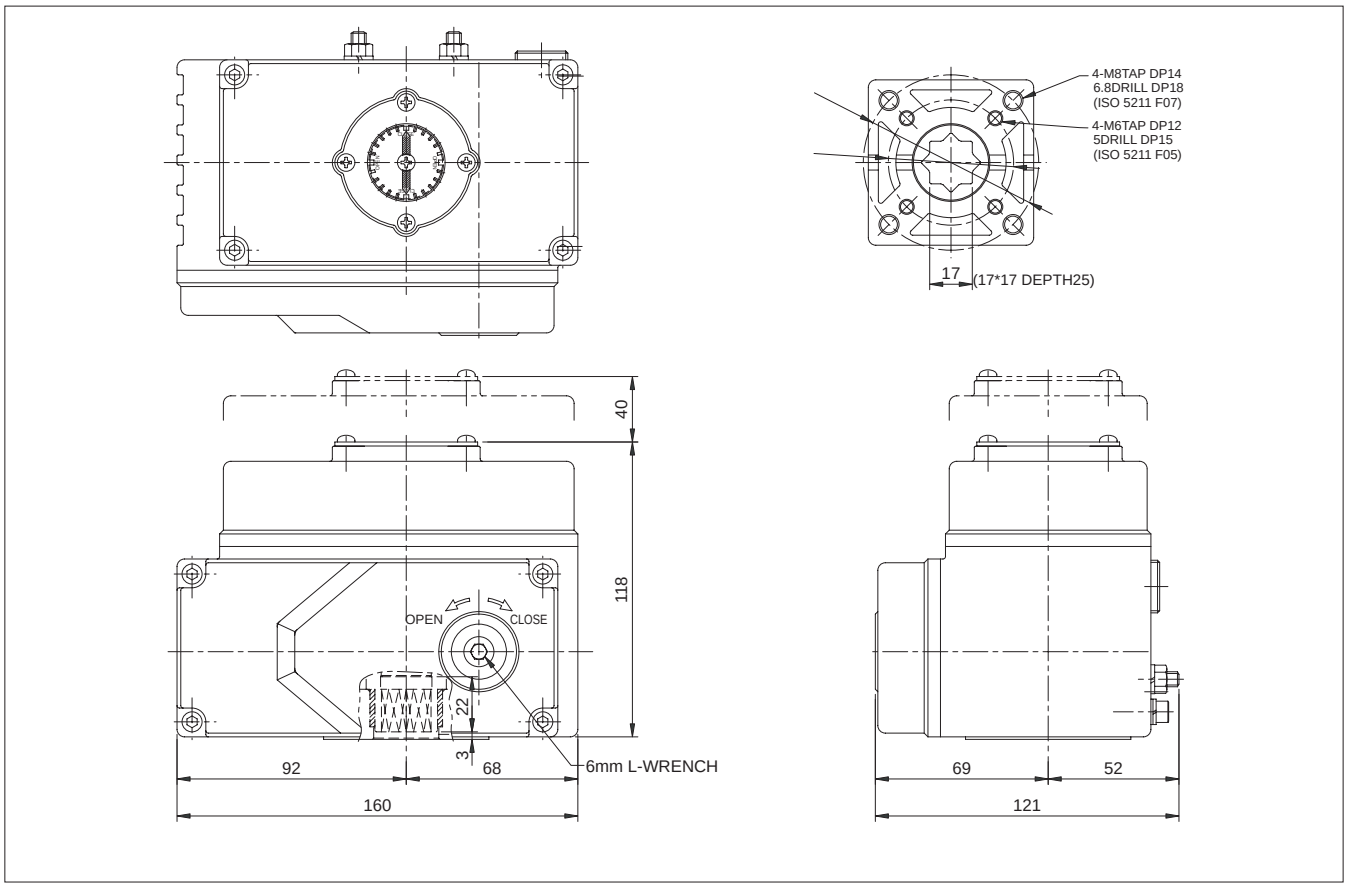




ITQ 0040

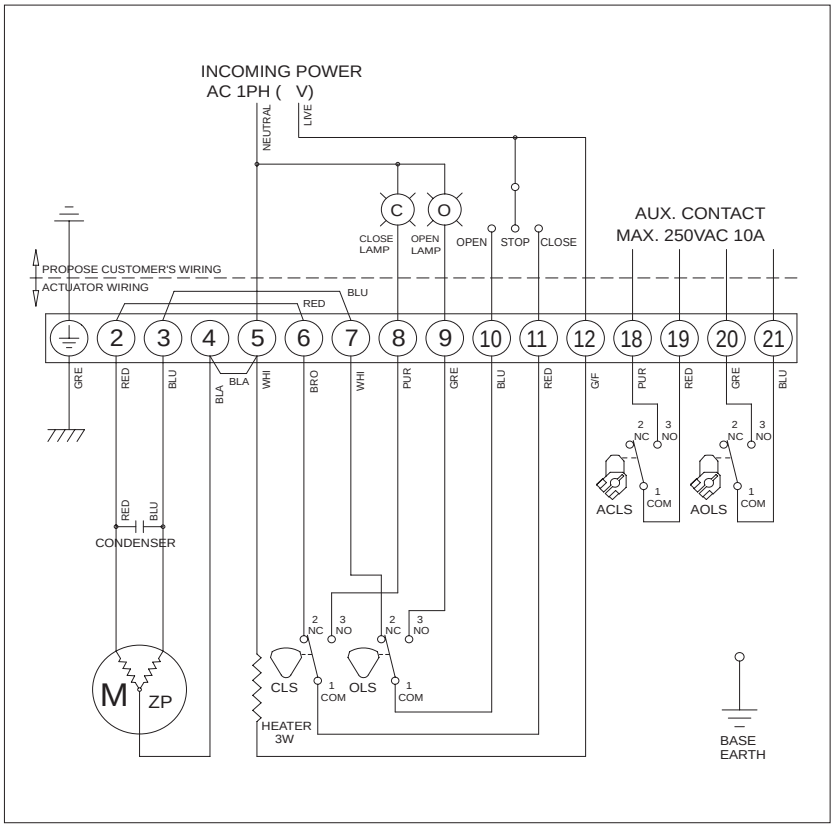
DIMENSIONAL DRAWING

ITQ 0080



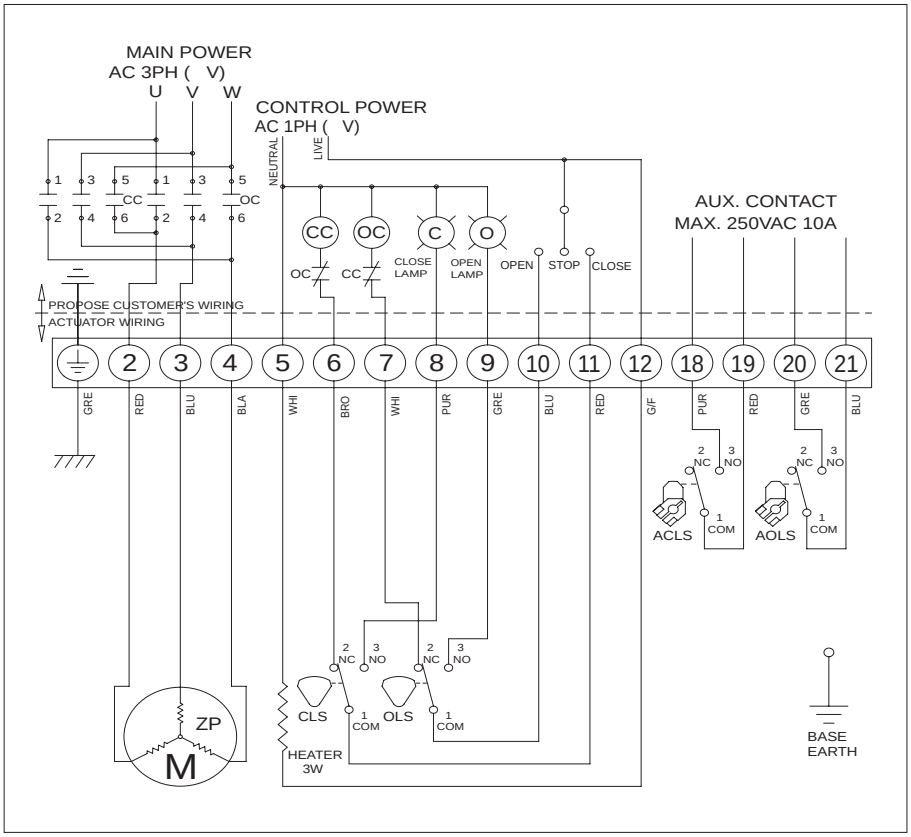
WIRING

ITQ 0080 110/220 (On-Off)

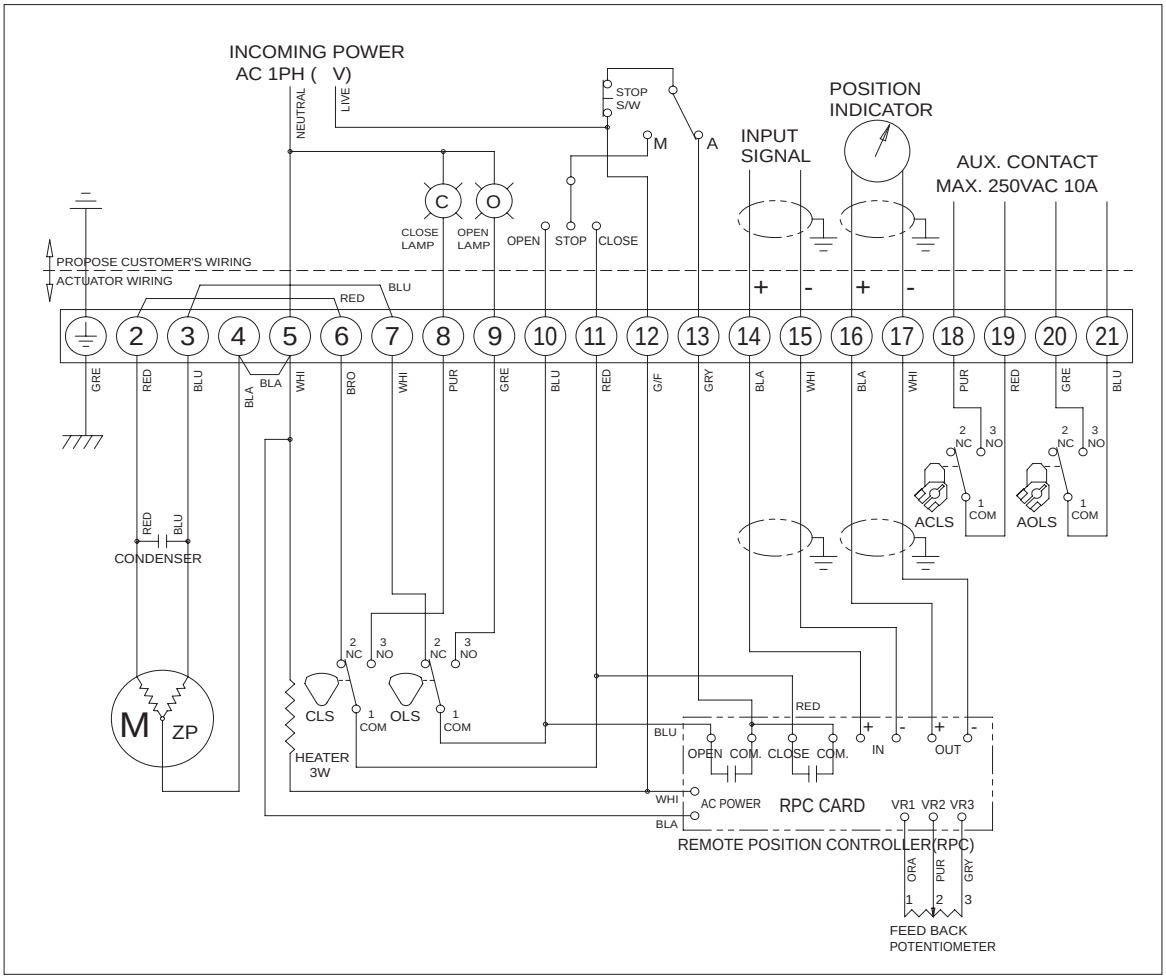


WIRING

ITQ 0080 380/440 ON/OFF



ITQ 0080 110/220 RPC



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