

Electric Linear Actuator



- **GEA-55 AL, PL**
- **GEA-100 AL, PL**



General

- Digital indicator showing the operation status of valve
- Accurate feedback control and easily check the operation status of valve in the field.
- Minimized maintenance due to the durable structure and reliable quality
- Applied to general industries including cooling & heating system, air conditioning, ice thermal storage system.
- Compatible with Digital temperature controller, DDC system or PLC system for the optimal performance.

Feature

- Local/Remote control & Open/Close spring return switch
- LED lamp indicating the operation status of valve
- Proportional control(Optional)
- Integral Motor Starter for 3Ph (Option)
- Auto-Phase Discriminator for 3Ph (Option)

Type

Model	Nominal stroke(mm)	Force(N)
GEA-55 AL, PL	70	5500(5.5KN)
GEA-100 AL, PL	70	10000(10KN)

Application

Applicable for 2-Way or 3-Way Globe Valve installed at General Industries, Heating, Ventilation, Air conditioning or Ice thermal storage system

Valve	Type	Pressure(GVF, GXF)
2-Way	Single Seat	10K, 20K
3-Way	Mixing, Diverting	10K, 20K

Weatherproof Type

Specification

Model	GEA-55, 100 AL / PL					
Stroke(mm)	70					
Force(N)	55 : 5500 N / 100 : 10000 N					
Positioning speed(50/60)	1.2 / 1.3 (mm/sec)					
Power (Volt)	1PH			3PH		
	110V	220V	DC 24V	220V	380V	440V
Power consumption	88.5/84.1	84/82	7.2	72/58	74/58	87/74
Hz	50 / 60					
In/Output Signal	4~20mA DC, 2~10VDC or 0~10VDC					
Operating mode	S4, 30% EN60034-1					
Space heater	10W					
Motor protection	Thermal protector (Insulation class F)					
Ambient temperature	-15 ~ 70 °C					
Ambient humidity	5 ~95% Rh (Non Condensing)					
Housing protection	IP 67					
Conduit Entries	(PF ½ , PT ½ , NPT ½ or M20 x 1.5) X 2EA					
Local Control Unit	Down/Up : Spring return switch - Local/Stop/Remote select switch, LED lamp					
1PH(Kg)	18					
3PH(Kg)	19.5					

Option

Option	Description
WE	Watertight enclose actuator (IP68)
ALS	Auxiliary Open, Close Limit Switch
PCU	Proportional Contact Unit (Modulation) In/Output : 4~20mA DC, 2~10VDC or 0~10VDC
PTM	Position Transmitter / Output : DC 4~20mA
Potentiometer	Potentiometer 1K Ohm / 135Ω
IMS	Integral Motor Starter
APD	Auto Phase Discriminator

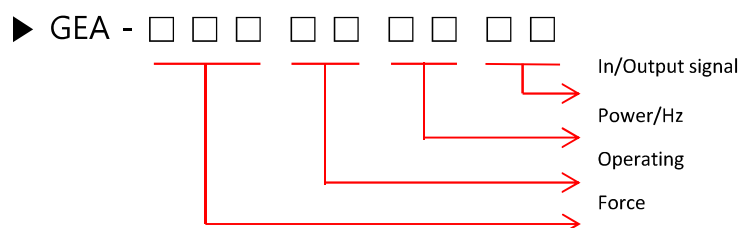
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Rated current(A)

Rated current(A)	1-Phase					3Phase					
	110VAC		220VAC		24 VDC	220VAC		380VAC		440VAC	
	50Hz	60Hz	50Hz	60Hz		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
GEA-55 AL, PL	0.23	0.23	0.22	0.22	0.31	0.31	0.24	0.18	0.14	0.17	0.15
GEA-100 AL, PL	0.31	0.31	0.24	0.24	0.31	0.31	0.24	0.18	0.14	0.17	0.15

Ordering

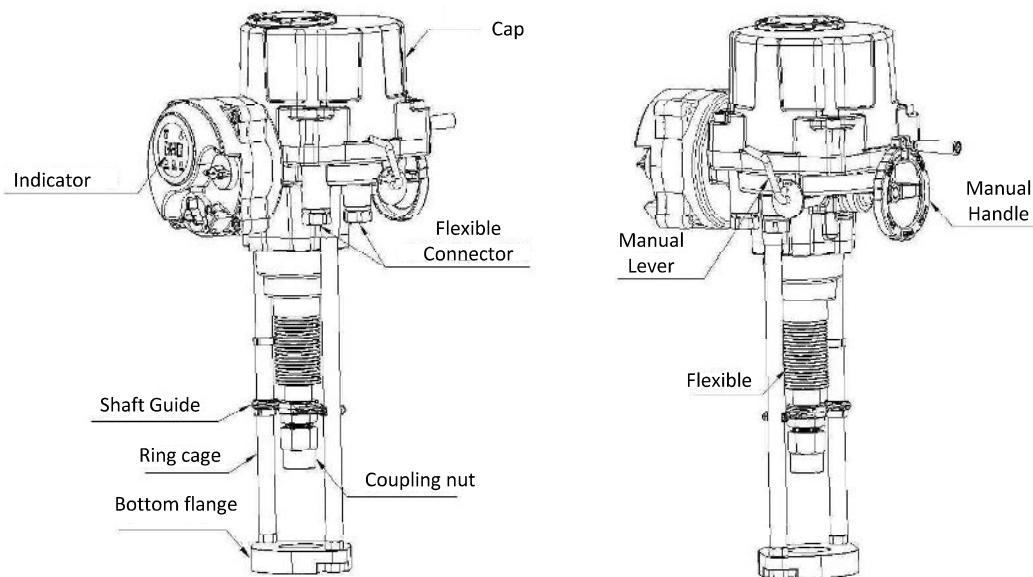
Model	Force	Operating	Power / Hz	Signal	Description
	N	type	AC / Hz		
GEA					Ginice electric actuator
	55				5500N
	100				10000N
		AL			Local /Remote / On-Off control
		PL			Local / Remote / Proportional control
			24		DC 24V
			21		AC 110V / 50Hz or 60Hz / 1P
			22		AC 220V / 50Hz or 60Hz / 1P
			32		AC 220V / 50Hz or 60Hz / 3P
			38		AC 380V / 50Hz or 60Hz / 3P
			34		AC 440V / 50Hz or 60Hz / 3P
				VO	Input : 0~10VDC, Output : 0~10VDC
				A4	Input : 4~20mA, Output : 4~20mA
				V2	Input : 2~10VDC, Output : 2~10VDC



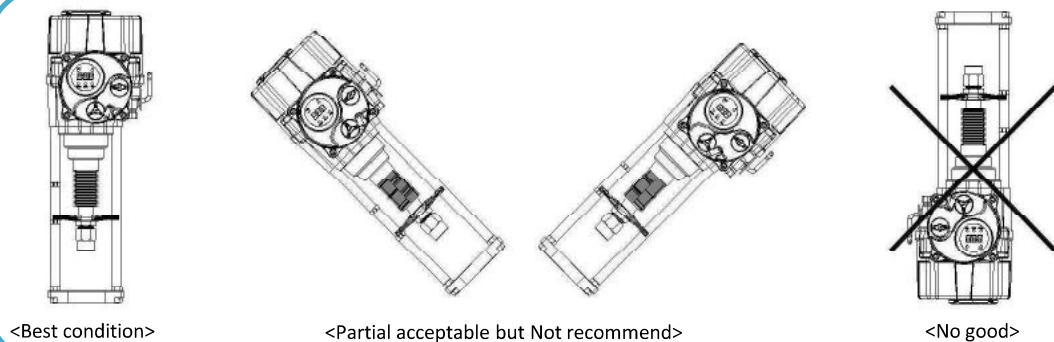
Weatherproof Type

Structure

- Easy to assemble valve and actuator without any special tools
- Minimized maintenance cost and simple motor replacement
- Easy manual operating by declutching mechanism



Installation and Mounting



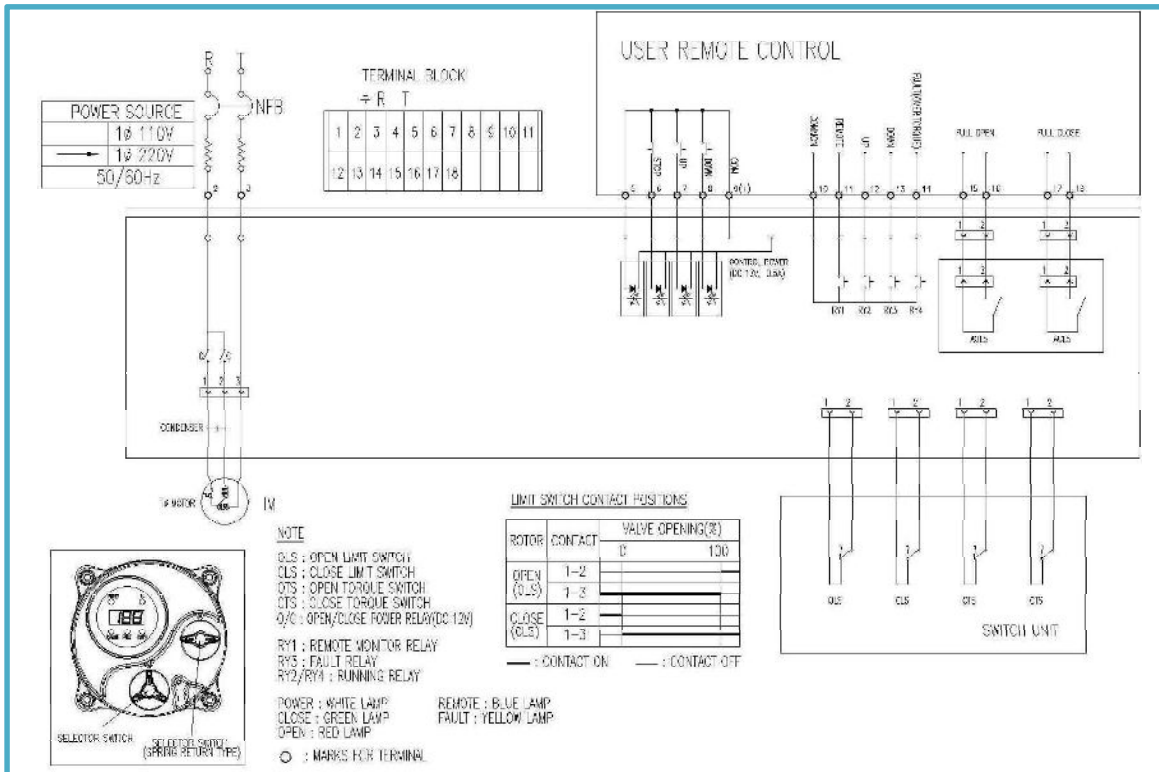
Operating(N.C Type)

Before commissioning, check wiring and specification first and then, test.

- Coupling part : moving toward to valve : Valve - Open
- Coupling part : moving toward to Actuator : Valve - Close

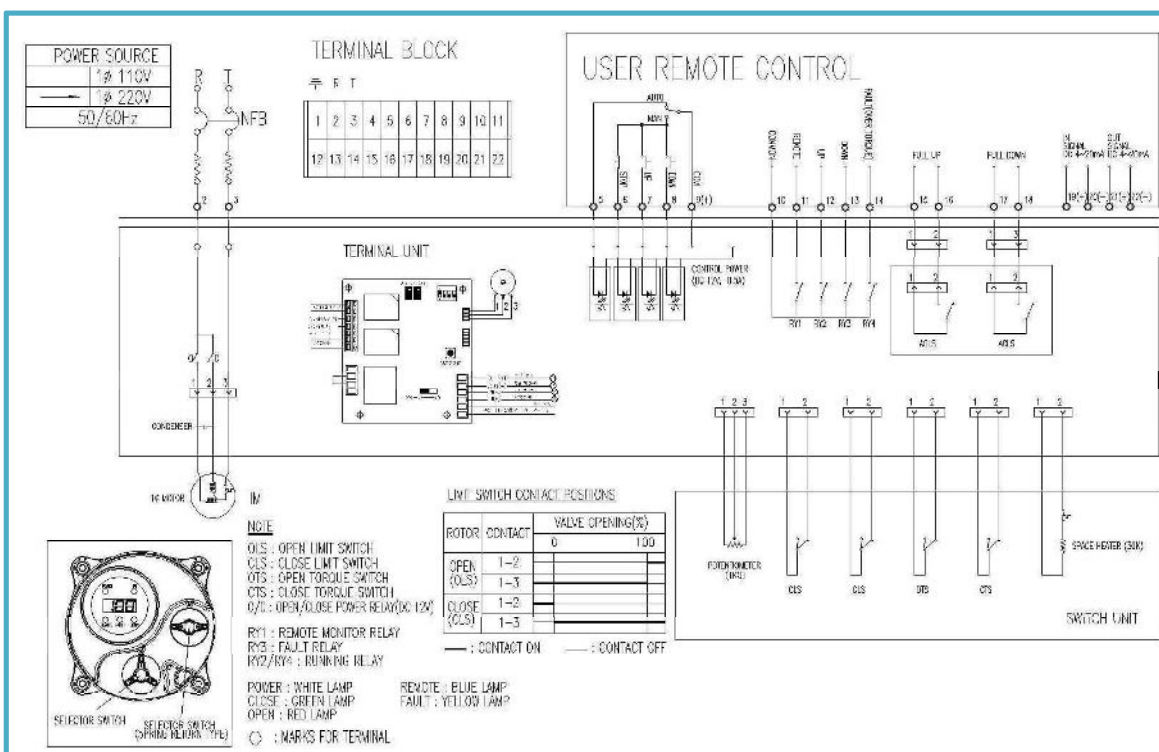
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Wiring (1Ph) – On/Off



- 1Ph LCU -

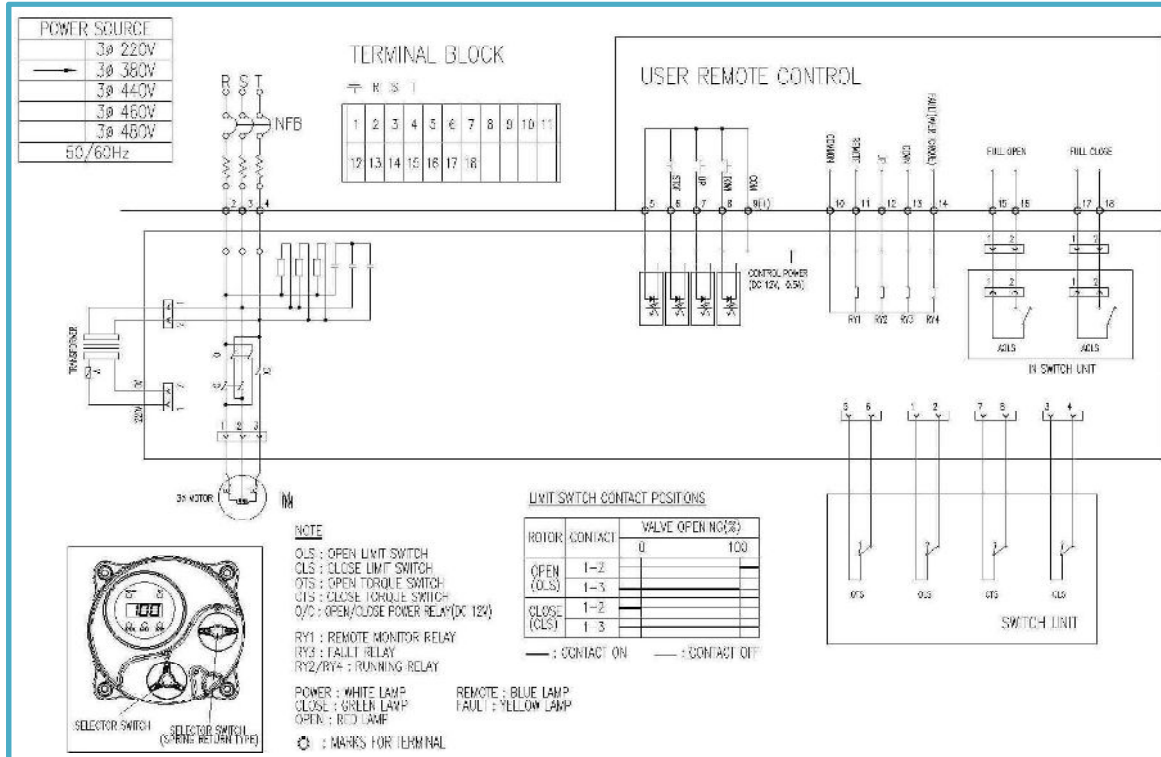
Wiring (1Ph) – Proportional



- 1Ph LCU + PCU -

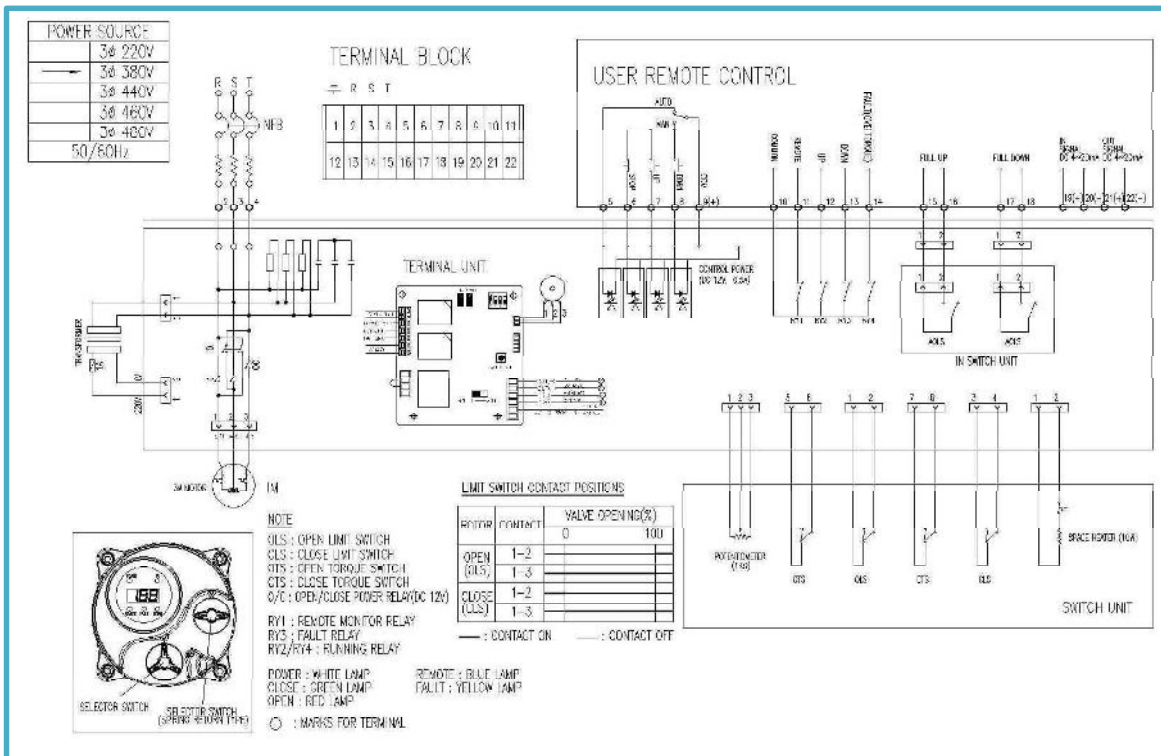
Weatherproof Type

Wiring (3Ph) – On/Off



- 3Ph LCU -

Wiring (3Ph) - Proportional

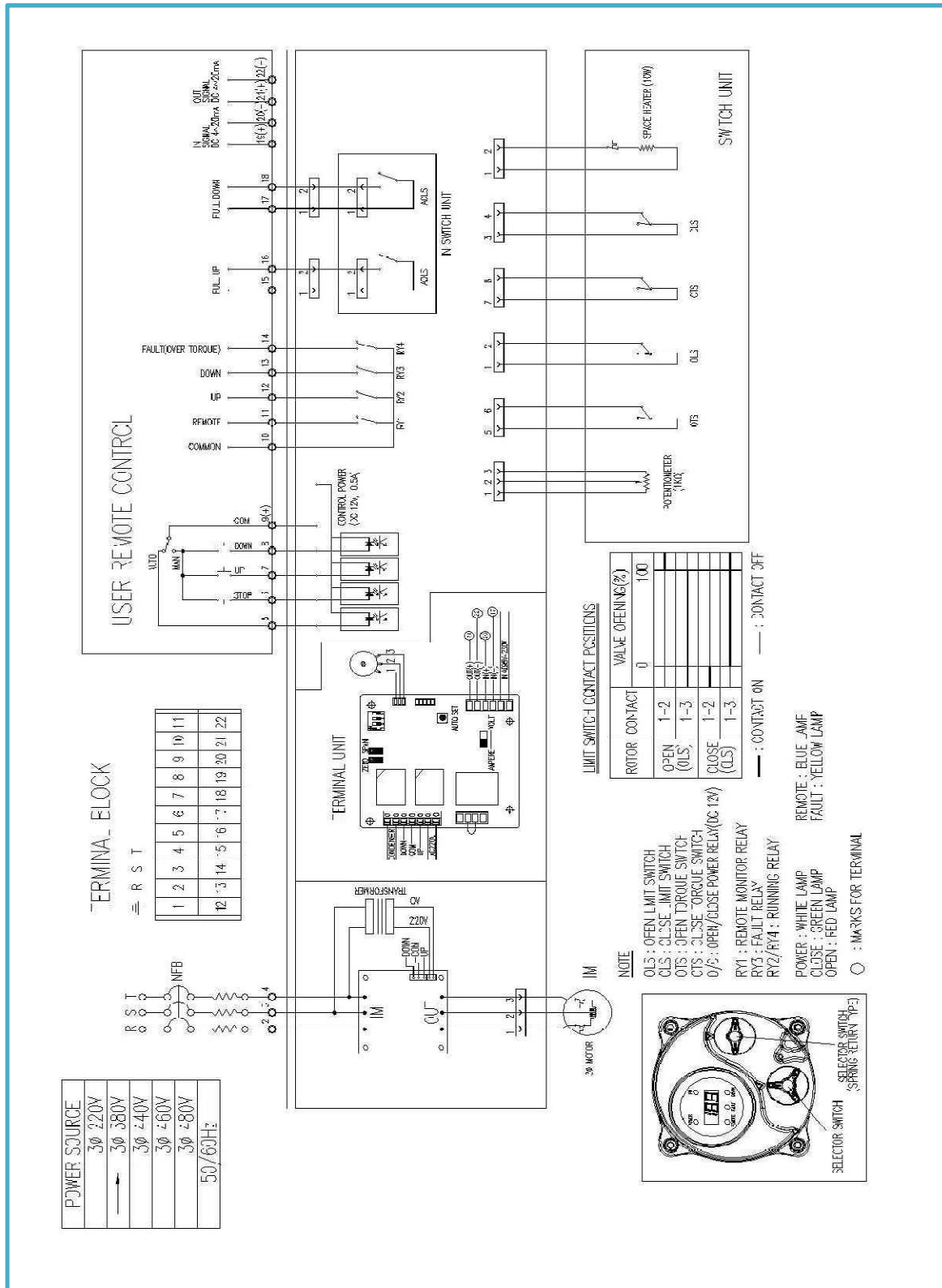


- 3Ph LCU + PCU -

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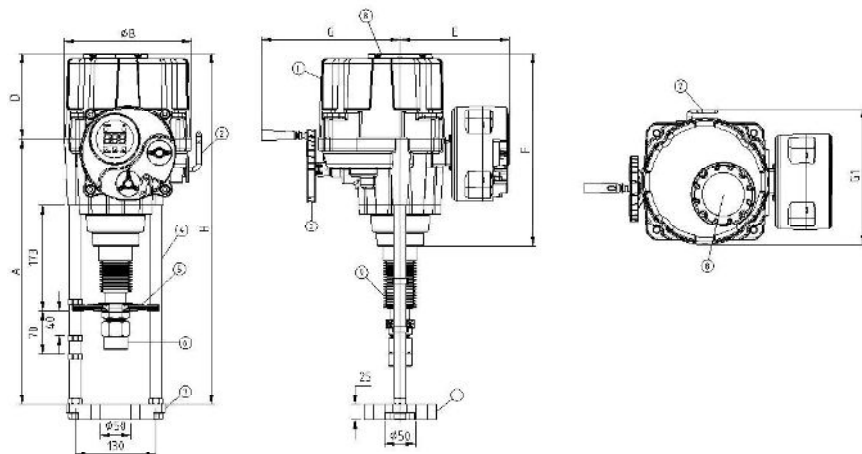
Wiring (3Ph) – Proportional / APD

- 3Ph LCU + PCU + APD -

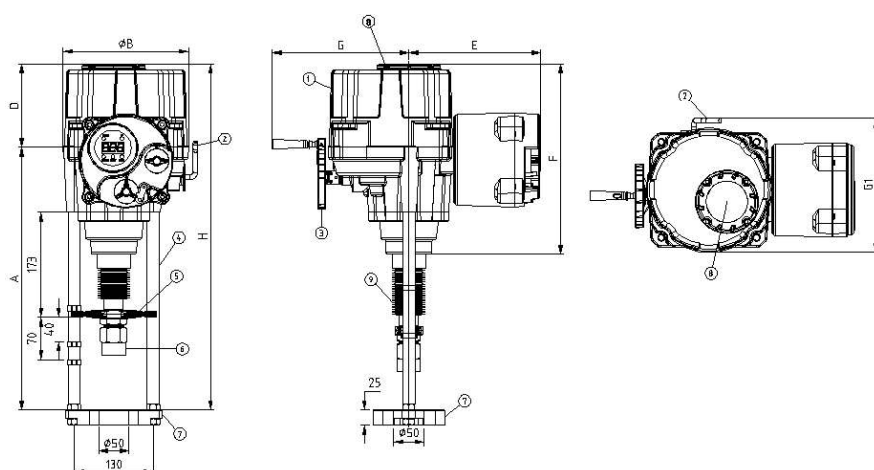


Weatherproof Type

Dimension



- 1Ph -



- 3Ph -

Type	1PH		3PH	
Model	GEA-55 AL, PL	GEA-100 AL, PL	GEA-55 AL, PL	GEA-100 AL, PL
ØB	206	206	206	206
H	570.5	596.5	570.5	596.5
D	139	139	139	139
F	314	314	314	314
E	177	177	217	217
G	225	225	225	225
G1	222	222	222	222
A	431.5	457.5	431.5	457.5