



KEA-20/35P



KEA-20/35PD



GENERAL

- Proportional control Electric Linear Actuator
- Stroke can be adjusted to suit the user's conditions using the auto setting button.
- Minimized maintenance due to the Robust body and Reliable operating
- Visual FND display using disit, applied to KEA-20/35PD
- Applied into Heating, Ventilation, Air conditioning or Ice thermal storage system

Type Summary

- The supplying electric power : 24VAC or 220VAC
- Control signal : 0~10VDC, 2~10VDC or 4~20mA

Model	Stroke (mm)	Force (N)
KEA-20P(S)	20	2000 (2.0KN)
KEA-35P	40	3500 (3.5KN)

APPLICATION

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

Valve	Type	Series(KVS, KXS, KVF, KXF)
2-way	Single Seat	10K, 16K, 20K
3-way	Mixing, Diverting	10K, 16K, 20K

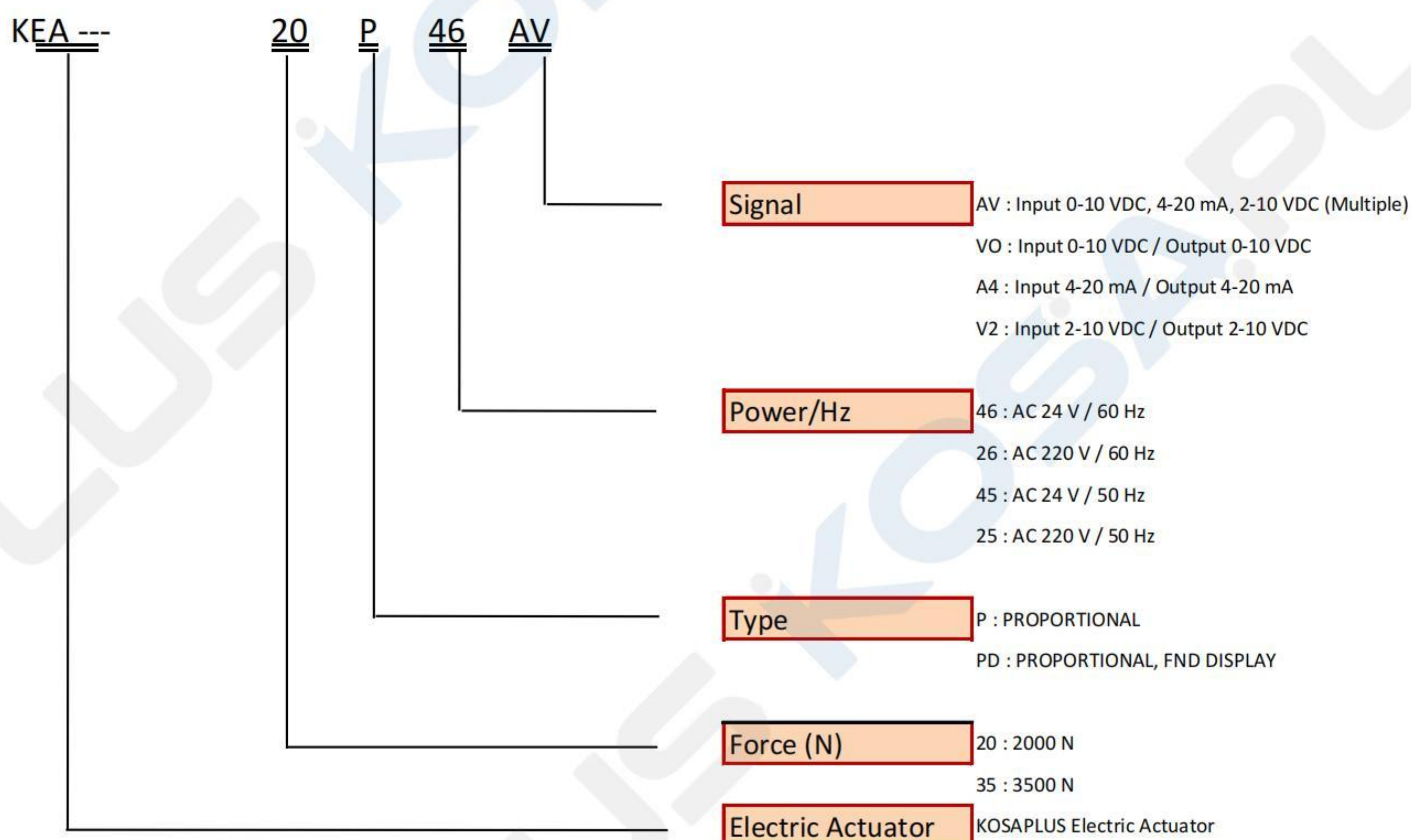
(KVS, KXS.... belong to the product of KOSAPLUS)

TECHNICAL DATA

Model(optional)	KEA-20P(D)	KEA-20P(D)S	KEA-35P(D)
Nominal Stroke (mm)	20		40
Nominal Force (KN)	2000 (2.0)		3500 (3.5)
Operating Time (Sec)	50 (0.4mm/s)	28	100 (0.4mm/s)
Power Supply (V)	AC 24V or (AC220V) . ±10%		
Frequency (Hz)	60 or 50		
Motor Speed (rpm)	600		
Rated Load (A)	0.7 (0.085)		
Condenser (μF)	34 (0.474)		
Power Consumption (VA)	12 (16.5)		
Input Signal	0~10V, 2~10V or 4~20mA DC		
Output Signal	0~10V or 2~10V or 4~20mA DC.		
Motor Efficiency	S4-30% ED-600c/hr, EN 60034-1		
Insulation Class	E (IEC)		
Operation Temperature	-15 ~ 60 °C		
Transportation Temperature	-30 ~ 65 °C		
Insulation Class	E (IEC)		
Humidity	5 ~ 95% Rh		
Enclosure	IP 54 (DIN4050)		
Conduit Entries	PF1/2 x 2EA		
Net Weight (Kg)	3.2		3.3

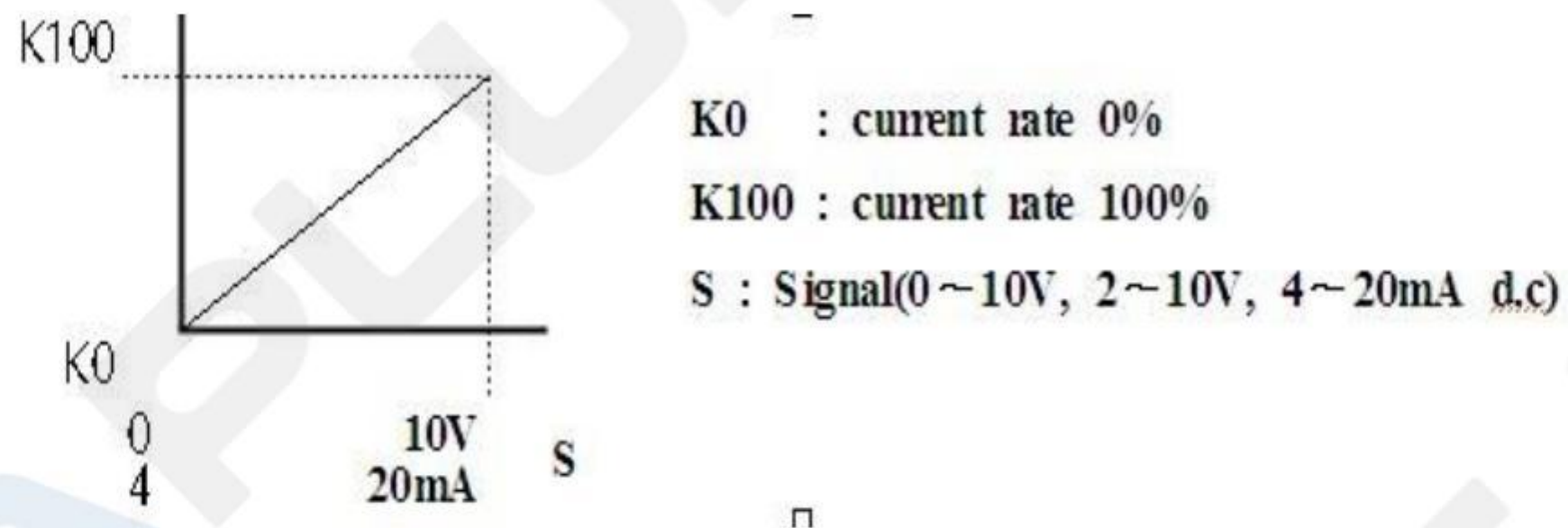
Note : KEA-20/35PD is same specification as KEA-20/35P but include FND display.

Ordering



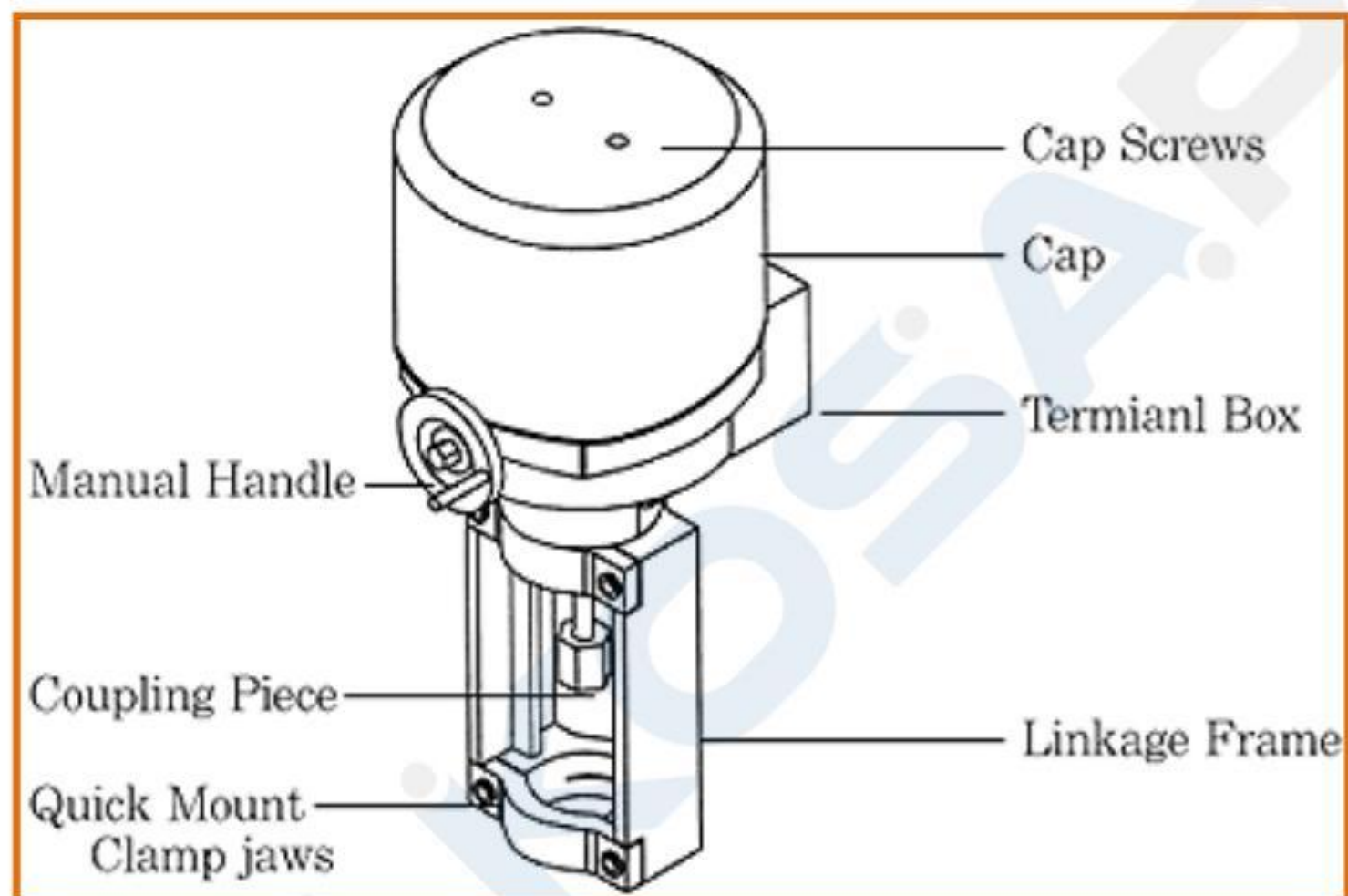
TECHNICAL FEATURES

- Manual Handle-wheel for emergency.
- Built-in torque switch to protect valve and actuator when overloaded or jammed.
- Selectable NC/NO without any special tools.
- Auto Setting Function.

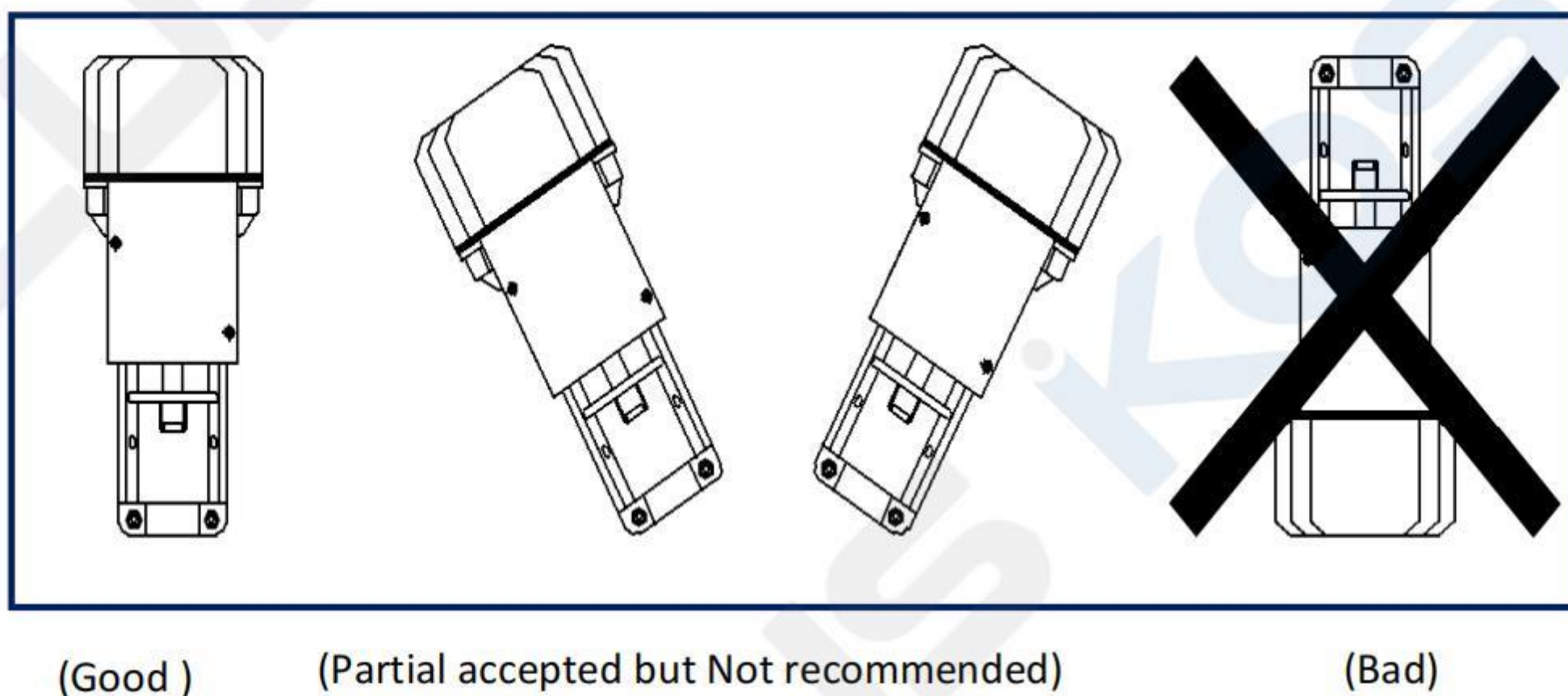


DESIGN FEATURE

- Easy to assemble valve and actuator without any special tools.
- Maintenance minimized and simple motor replacement
- Easy manual operation by declutching mechanism



MOUNTING & INSTALLATION GUIDE



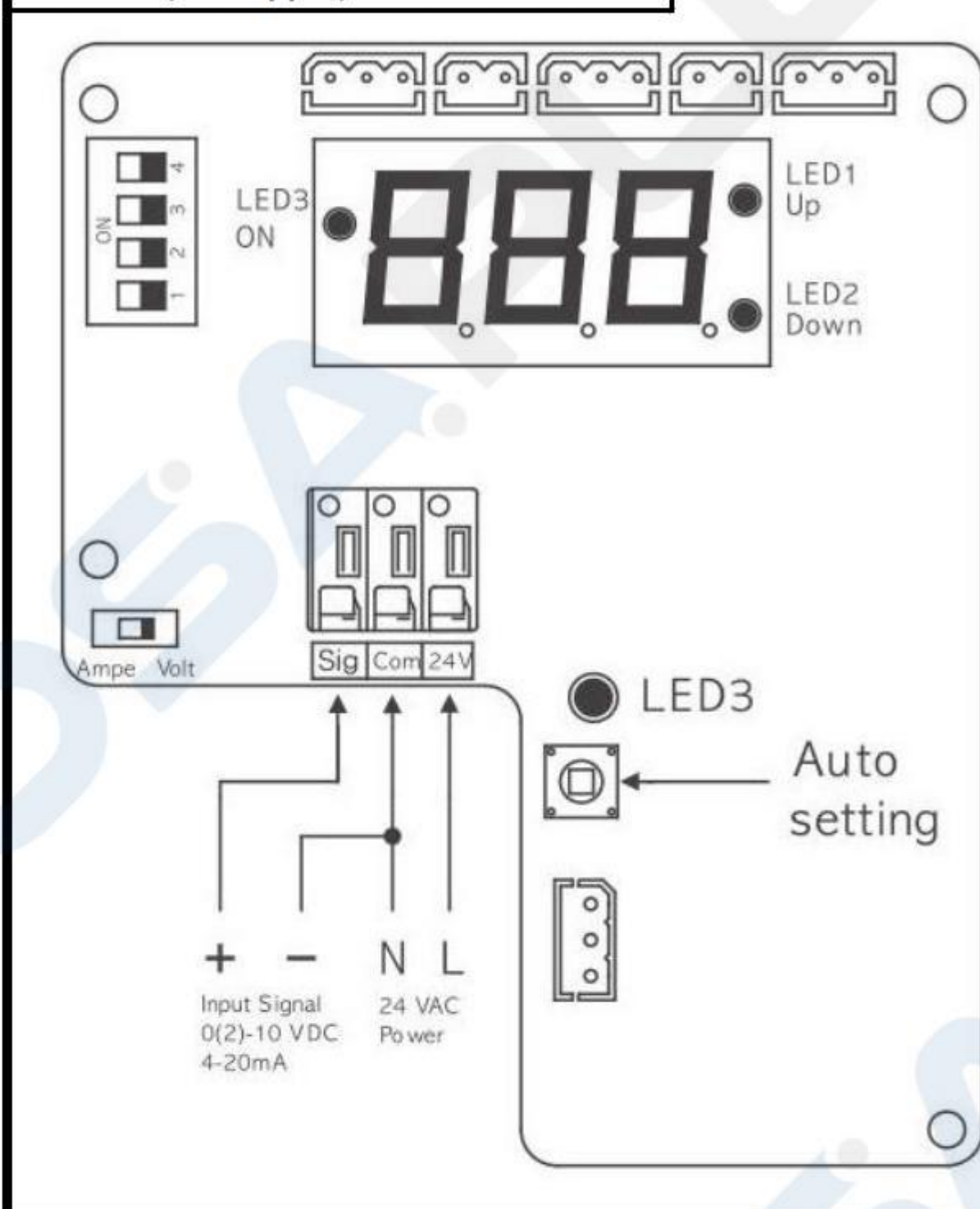
COMMISSIONING

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

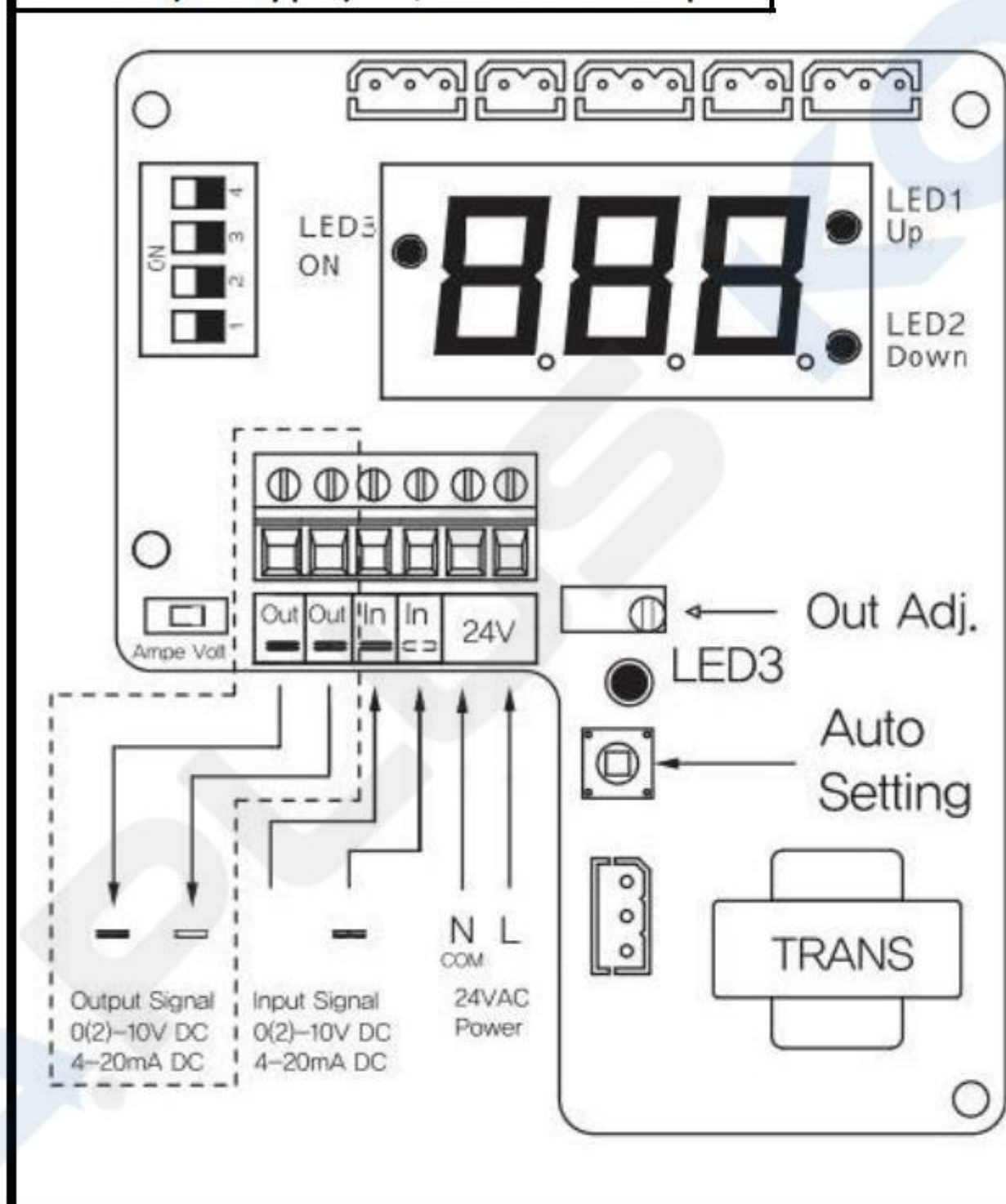
- Coupling part : moving toward to valve - Open valve
- Coupling part : moving toward to Actuator - Close valve

WIRING DIAGRAM

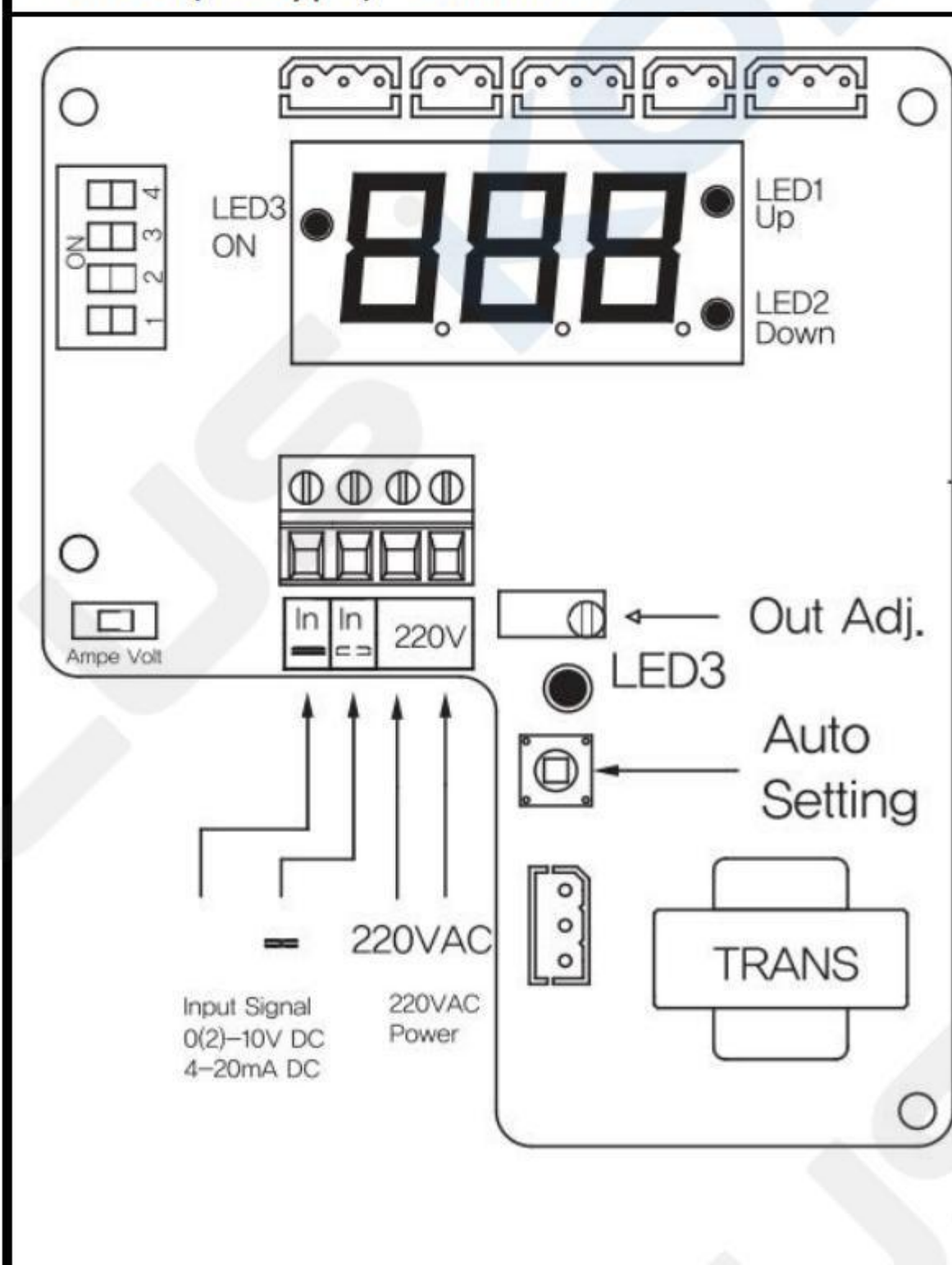
24VAC (PD type) - Standard



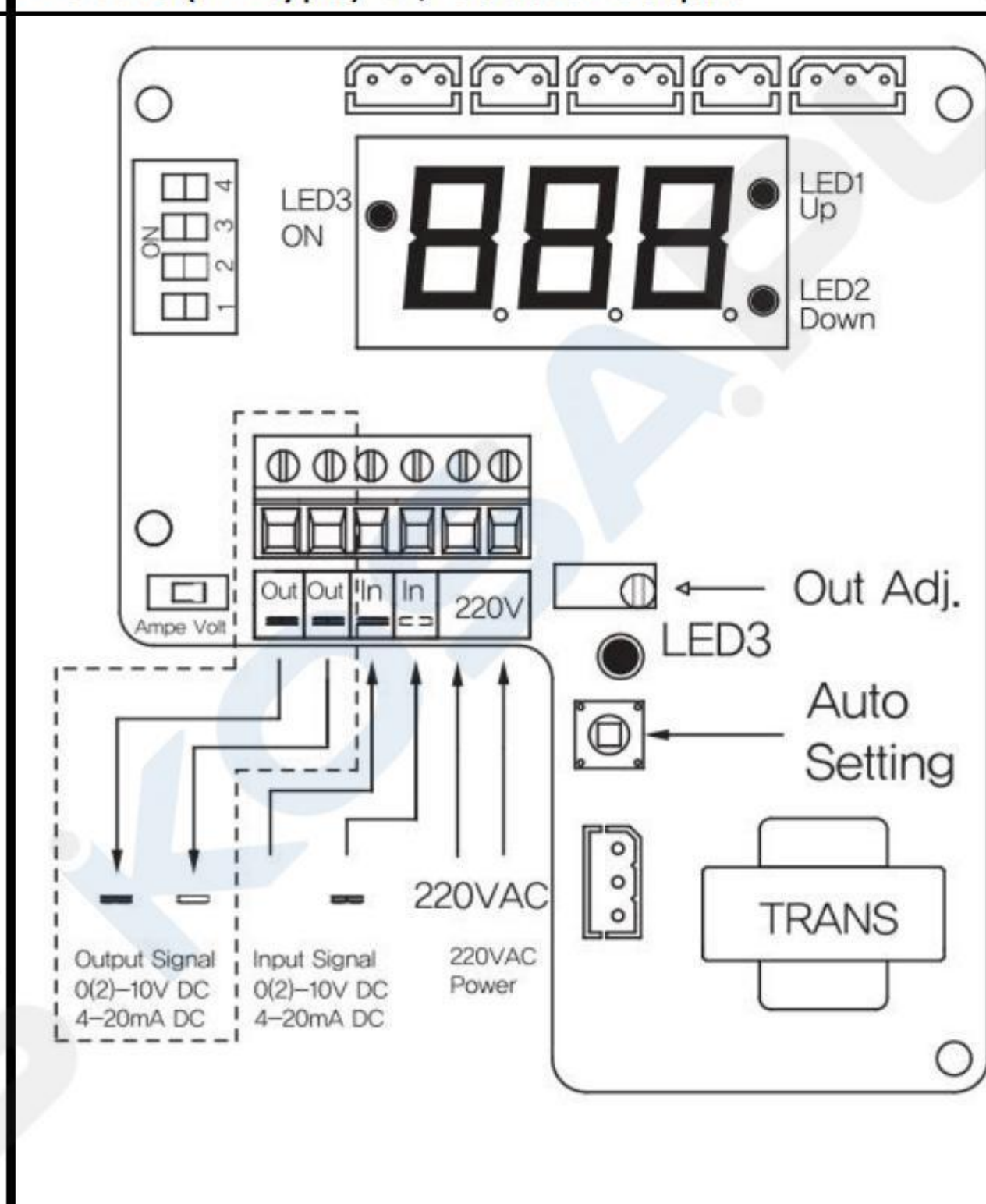
24VAC (PD type) w / Control Output



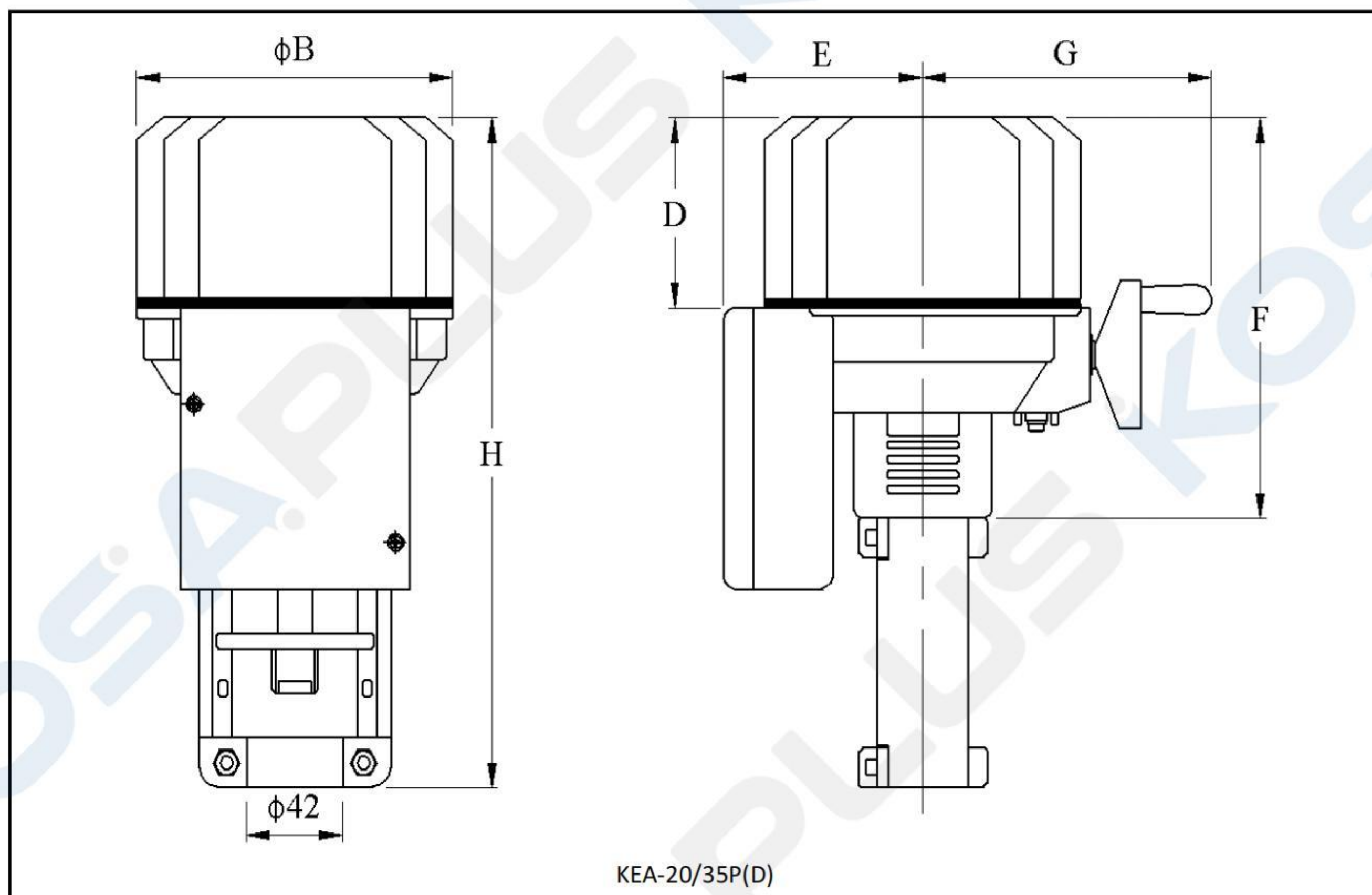
220VAC (PD type) - Standard



220VAC (PD type) w / Control Output



DIMENSION



(Unit : mm)

Model	KEA-20P(D)	KEA-35P(D)
ΦB	138	138
H	269	297
D	72	73
F	160	161
E	88	89
G	124	124

KOSAPLUS

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Cat ver. 24J11

- Data contained in the Catalog may be subject to change without advance notice for improvement of performance&safety of Product.
- Contact us for the most recent product and technical information. Visit our website for more details: <http://www.kosaplus.com>

KOSAPLUS Electric Linear Actuator - KEA model

No	Type	Model	Stroke (mm)	Force (N)	Power	Control / Feedback / Optional
1	On-off   	KEA-10A	20	1,000	24/220Vac	Standard
2		KEA-10AS				High Speed (28 sec)
3		KEA-20A	20	2,000	24/220Vac	Standard
4						Limit Switch
5						0~135Ω
6						High Speed (28 sec)
7		KEA-20AS				High Speed (28 sec), Limit Switch
8		KEA-35A	40	3,500	24/220Vac	Standard
9						Limit Switch
10						0~135Ω
11		KEA-55A	70	5,500	24/220Vac	Standard
12						Limit Switch
13						0~135Ω
14		KEA-100A	70	10,000	24/220Vac	Standard
15						Limit Switch
16						0~135Ω
17		KEA-250A	80	25,000	220Vac	Standard
18						Limit Switch
19						0~135Ω
20						High Speed (110 sec)
21		KEA-250AS				High Speed (110 sec), Limit Switch
22	Proportional  	KEA-10P	20	1,000	24Vac	0(2)~10Vdc or 4~20mA
23		24/220Vac			0(2)~10Vdc or 4~20mA, Feedback	
24		KEA-10PS			24Vac	0(2)~10Vdc or 4~20mA, High Speed
25		24/220Vac			0(2)~10Vdc or 4~20mA, Feedback, High Speed	
26		KEA-10PN	20	2,000	24Vac	0(2)~10Vdc or 4~20mA
27					24/220Vac	0(2)~10Vdc or 4~20mA, Feedback
28		KEA-20P	20	2,000	24Vac	0(2)~10Vdc or 4~20mA
29					24/220Vac	0(2)~10Vdc or 4~20mA, Feedback
30		KEA-20PS			24Vac	0(2)~10Vdc or 4~20mA, High Speed
31					24/220Vac	0(2)~10Vdc or 4~20mA, Feedback, High Speed
32		KEA-35P	40	3,500	24Vac	0(2)~10Vdc or 4~20mA
33					24/220Vac	0(2)~10Vdc or 4~20mA, Feedback
		KEA-250P	80	25,000	220Vac	0(2)~10Vdc or 4~20mA, Feedback
		KEA-250PS			220Vac	0(2)~10Vdc or 4~20mA, Feedback, High Speed

34	Proportional / Digital Indicator 	KEA-10PD	20	1,000	24Vac	0(2)~10Vdc or 4~20mA, Digital
35					24/220Vac	0(2)~10Vdc or 4~20mA, Feedback, Digital
36		KEA-10PDS			24Vac	0(2)~10Vdc or 4~20mA, Digital, High Speed
37					24/220Vac	0(2)~10Vdc or 4~20mA, Feedback, Digital, High Speed
38		KEA-20PD	20	2,000	24Vac	0(2)~10Vdc or 4~20mA, Digital
39					24/220Vac	0(2)~10Vdc or 4~20mA, Feedback, Digital
40		KEA-20PDS			24Vac	0(2)~10Vdc or 4~20mA, Digital, High Speed
41					24/220Vac	0(2)~10Vdc or 4~20mA, Feedback, Digital, High Speed
42		KEA-35PD	40	3,500	24Vac	0(2)~10Vdc or 4~20mA, Digital
43					24/220Vac	0(2)~10Vdc or 4~20mA, Feedback, Digital
44	Actuator + Digital Controller 	KEA-55PD	70	5,500	24Vac	0(2)~10Vdc or 4~20mA, Digital
45					24/220Vac	0(2)~10Vdc or 4~20mA, Feedback, Digital
46		KEA-55PDS			220Vac	0(2)~10Vdc or 4~20mA / Feedback
47		KEA-100PD	70	10,000	24Vac	0(2)~10Vdc or 4~20mA, Digital
48					24/220Vac	0(2)~10Vdc or 4~20mA, Feedback, Digital, High Speed
49		KDCA-20P	20	1,000	220Vac	Actuator with Integrate Controlling of Temp. & Humidi
50		KDCA-35P	40	3,500	220Vac	
51	Spring Return 	KEA-10SR	20	1,000	24Vac	0(2)~10Vdc or 4~20mA / Feedback, Fail-safe

KOSAPLUS Electric Linear Actuator - Weather proof

번 호	Type	Model	Stroke (mm)	Force (N)	Power	Control / Feedback
52	Weather-proof, On-off 	KEA-20AW	20	2,000	24/220Vac	IP67, On-off
53					24/220Vac	IP67, On-off, Limit Switch
54					24/220Vac	IP67, On-off, 0~135Ω
55		KEA-20AWS	40	3,500	24/220Vac	IP67, On-off, High Speed
56		KEA-35AW			24/220Vac	IP67, On-off
57					24/220Vac	IP67, On-off, Limit Switch
58					24/220Vac	IP67, On-off, 0~135Ω
59	Weather-proof / Proportional / Digital Indicator	KEA-20PDW	20	2,000	24/220Vac	IP67, 0(2)~10Vdc or 4~20mA, Feedback, Digital
60		KEA-20PDWS			24/220Vac	IP67, 0(2)~10Vdc or 4~20mA, Feedback, Digital, High Speed
61		KEA-35PDW	40	3,500	24/220Vac	IP67, 0(2)~10Vdc or 4~20mA, Feedback, Digital
62	Weather-proof / On-off / Local Control	KEA-55AL	70	5,500	110/220Vac	IP67, LCU (Local Control Unit)
63		KEA-55AL(3P)	70	5,500	220/380/440Vac	IP67, LCU (Local Control Unit)
64		KEA-55AL(상체크)	70	5,500	220/380/440Vac	IP67, LCU (Local Control Unit)
65		KEA-100AL	70	10,000	110/220Vac	IP67, LCU (Local Control Unit)
66		KEA-100AL(3P)	70	10,000	220/380/440Vac	IP67, LCU (Local Control Unit)
67		KEA-100AL(상체크)	70	10,000	220/380/440Vac	IP67, LCU (Local Control Unit)
68	* Optional)	** Position Transmitter				
69		** 135Ω				
70	Weather-proof / Proportional / Local Control	KEA-55PL	70	5,500	110/220Vac	IP67, LCU, Feedback
71		KEA-55PL(3P)	70	5,500	220/380/440Vac	IP67, LCU, Feedback
72		KEA-55PL(상체크)	70	5,500	220/380/440Vac	IP67, LCU, Feedback
73		KEA-100PL	70	10,000	110/220Vac	IP67, LCU, Feedback
74		KEA-100PL(3P)	70	10,000	220/380/440Vac	IP67, LCU, Feedback
75		KEA-100PL(상체크)	70	10,000	220/380/440Vac	IP67, LCU, Feedback
76	* Optional)	** IP68				
						
77	Adaptors	ADAPTER			Connection Fittings to various Valves, ready or upon request	