

Electric Actuator EACD Series



EACD.. Series



PERFORMANCE

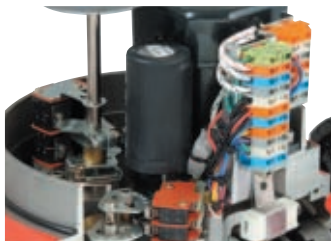
CD (MODEL)	Maximum output torque	Operating time(sec.) 60/50Hz	Maximum bore size	Motor class F Model & frame size	Rated current(A) 60Hz/50Hz				Duty cycle IEC 34-1	Number of handle turn	Weight
	Kg-m	90°	mm	M * F	1 Phase		3 Phase		S4(%)	N	Kg
CD-008	8	13/16	φ 20	15 * 70	1.00/0.97	0.45/0.45	N/A	N/A	70	10	7.4
CD-010	10	16/20	φ 20	15 * 70	1.00/0.97	0.45/0.45	N/A	N/A	70	10	7.4
CD-015	15	21/25	φ 22	40 * 80	1.70/1.50	0.84/0.73	0.28/0.37	0.36/0.59	70	11	16.6
CD-020	20	21/25	φ 22	40 * 80	1.70/1.50	0.84/0.73	0.28/0.37	0.36/0.59	70	11	16.6
CD-030	30	26/31	φ 35	40 * 90	1.67/1.37	0.81/0.68	0.27/0.33	0.34/0.55	70	13.5	22
CD-050	50	26/31	φ 35	90 * 90	3.56/4.27	1.30/1.40	0.42/0.51	0.47/0.66	70	13.5	23
CD-060	60	26/31	φ 35	90 * 90	3.56/4.27	1.30/1.40	0.42/0.51	0.47/0.66	70	13.5	23
CD-080	80	31/37	φ 45	180 * 90	4.93/3.59	2.20/1.80	0.61/0.83	0.67/1.10	70	16.5	29
CD-120	120	31/37	φ 45	180 * 90	4.93/3.59	2.20/1.80	0.61/0.83	0.67/1.10	70	16.5	29
CD-200	200	93/112	φ 65	180 * 90	4.93/3.59	2.20/1.80	0.61/0.83	0.67/1.10	70	49.5	75
CD-300	300	93/112	φ 65	180 * 90	4.93/3.59	2.20/1.80	0.61/0.83	0.67/1.10	70	49.5	75

STANDARD SPECIFICATION

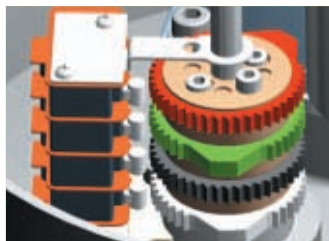
Enclosure	Weatherproof enclosure IP67, NEMA 4 and 6
Power supply	110 / 220V AC 1PH, 380 / 440V AC 3PH 50 / 60Hz, ±10%
Control power supply	110 / 220V AC 1PH, 50 / 60Hz, ±10%
Duty cycle(on-off)	S2, 100% Max 30Min
Duty cycle(modulating)	S4, 70% Max 300~1600 start/hour
Motor	Induction motor (Reversible motor)
Limit switches	Open / close, SPDT, 250V AC 16A rating
Additional limit switches	Open / close, SPDT, 250V AC 16A rating (Except CD-008)
Torque switches	Open / close, SPDT, 250V AC 16A rating (Except CD-008)
Stall protection/operating temp /	Built-in thermal protection, open 150°C ± 5°C / close 97°C ± 15°C
Travel angle	90° ± 10° (0° ~ 110°)
Indicator	Continuous position indicator
Manual override	Declutching mechanism
Self locking	Provided by double worm gearing
Mechanical stopper	2 × external adjustable screws
Space heater	10W(110/220V AC) Anti-condensation
Cable entries	Three PF3/4" tap (standard type only)
Lubrication	Grease moly (EP type)
Terminal block	Spring loaded lever push type
Materials	Steel, Aluminium alloy, Al bronze, Polycarbonate
Ambient temperature	-20°C ~ +70°C (except option electronic board)
Ambient humidity	90% RH Max.(non-condensing)
Anti vibration	X Y Z 10g, 0.2~34Hz, 30minute
External coating	Anodizing treatment before dry powder, Polyester, Munsell no. 5R 3.5/12

OPTION SPECIFICATION

EXA	Explosionproof enclosure actuator (Eexd II B T4)	CD-series
WTA	Watertight enclosure actuator (IP68 10M 72HR)	CD-series
PIU	Potentiometer unit (0~1k Ω)	CD-series
PCU	SSR type proportional control unit (input, output 0~10V DC, 4~20mA DC)	CD-series
ATS	Additional torque switches (SPDT x 2EA 250V AC 10A Rating)	except CD-008/010
SICU	Semi-Integral control unit (LCU + IMS + phase protect indicator)	except CD-008/010
ICU	Intelligent digital control unit (LCU + IMS + auto phase discriminator)	except CD-008/010
CPT	Current position transmitter (output 4~20mA DC)	CD-series
EXT	Extension 120°, 180°, 270° turn	except CD-200, 300
RBP	Rechargeable battery backup	CD-008, 015, 020, 030
DCM	DC motor (24V DC)	CD-008, 015, 020, 030
ADCM	Multi AC/DC 24V(integral)	CD-008, 015, 020, 030
LPA	Lever plate actuator	except CD-008/010
SLU	Signal lamp unit (white-power on, red-open, green-close, yellow-over torque)	except CD-008/010
FPA1	Fire Proofing Actuator 1050 $\pm$ 5°C / 50min	Engineering consult in advance
FPA2	Fire Proofing Actuator 250 $\pm$ 5°C / 150min	Engineering consult in advance



(Standard cam)

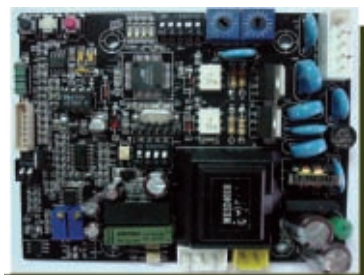


(Cam block)



(D-Type cam)

- 2 travel limit switches for operation
- 2 auxiliary limit switches as dry contact for customer usage
- Easy setting from upside by two screws for tight lockup
- Each cam be set independently



Proportional Control Unit (SSR - PCU)

- Input signal range : 0~10VDC, 1~5VDC, 4~20mA, 20~4mA
- Output signal range : 4~20mA, 0~10VDC
- Adjustable range : Zero 8mA, Open 16mA
- Position conversion accuracy : $\pm 0.5 \sim 1.5\%$ (depends on installation)
- DA or RA without change of wires



Potentiometer Kit (PIU)

- 0~1K ohm ($\pm 0.5\%$), high resolution

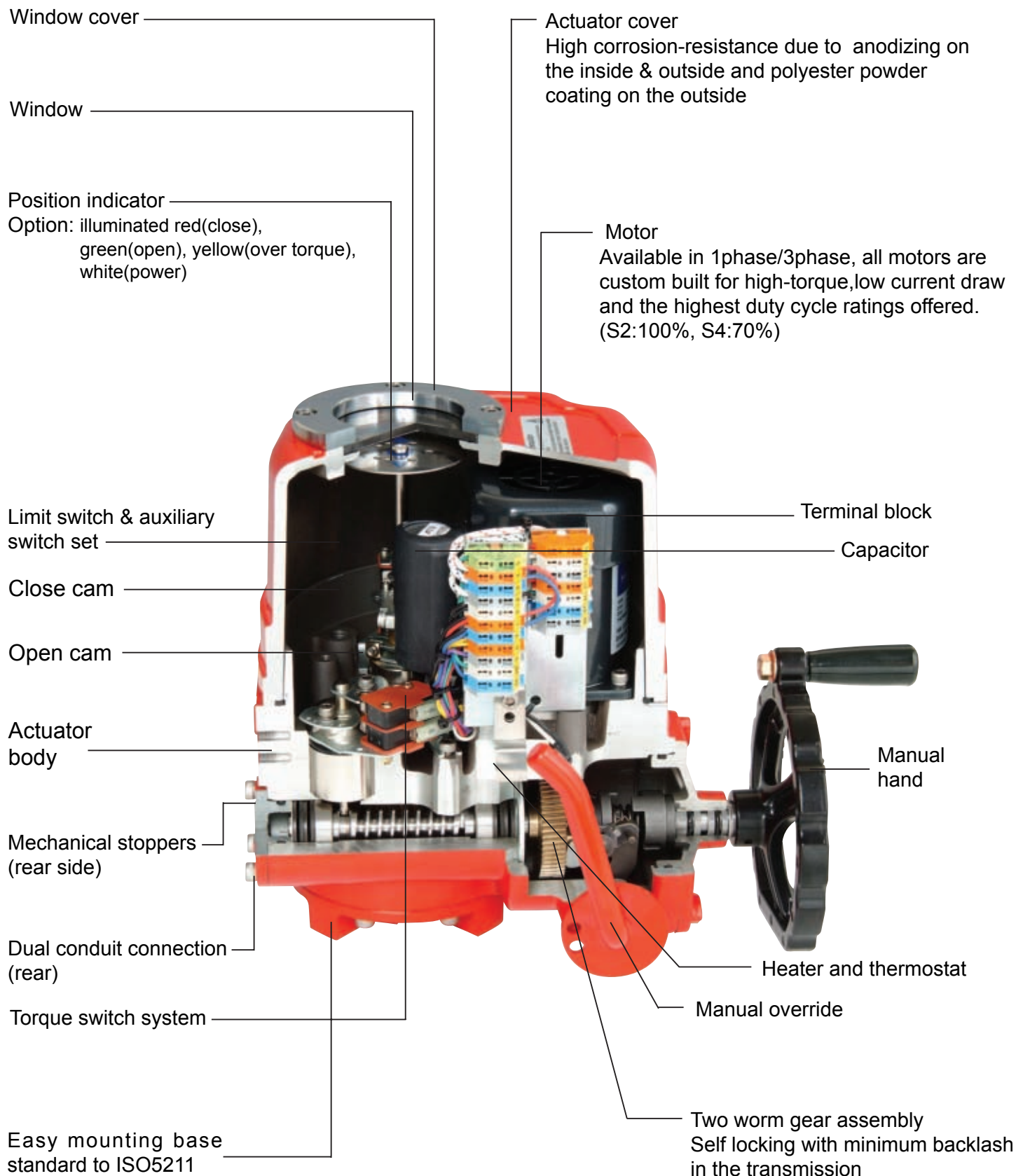


Fire Proofing Actuator (FPA)



Rechargeable Battery Backup

CONSTRUCTION



STANDARD CONFIGURATION



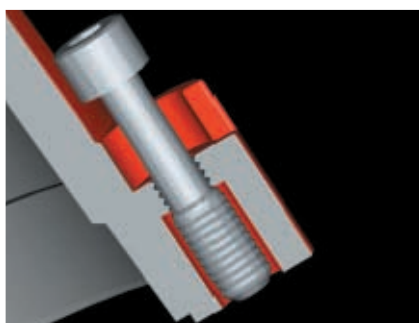
Terminal block

- Enough number of terminal strips for customer's convenience
- Proven reliability and tight wiring connection.
- Stripped length: 8-9 mm / 0.33 in (2.5mm²)
- Terminal dimensions: 10 × 22 × 32mm



Heater

- Ceramic housing with thermostat to prevent over heat comparing with set temperature.
- No risk of electricity leakage.



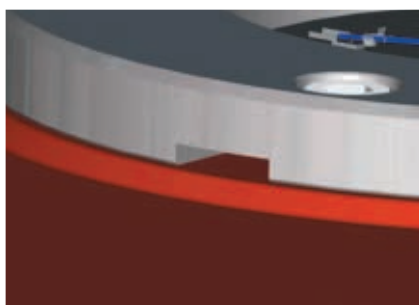
Captive cover bolt

- Cover bolts are specially designed to prevent losing it during maintenance or installation.
- All external bolts are stainless steel for rust prevention.



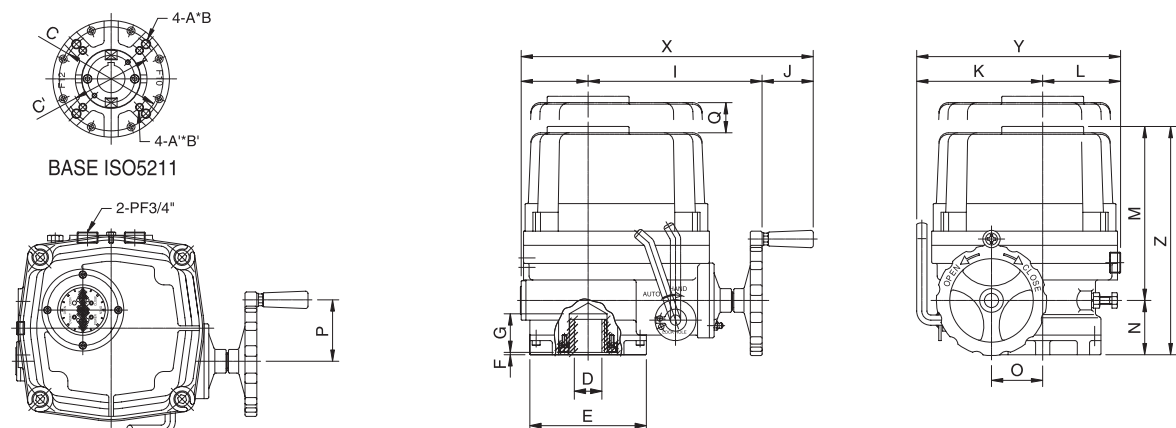
Indicator sustained by spring

- Direction of visual indicator is set by factory.
- In case of changing it's direction, just grip the indicator plate and change the position.
- Spring beneath indicator plate sustains the set position unchanged.
- No need to loose screw and tight it again !

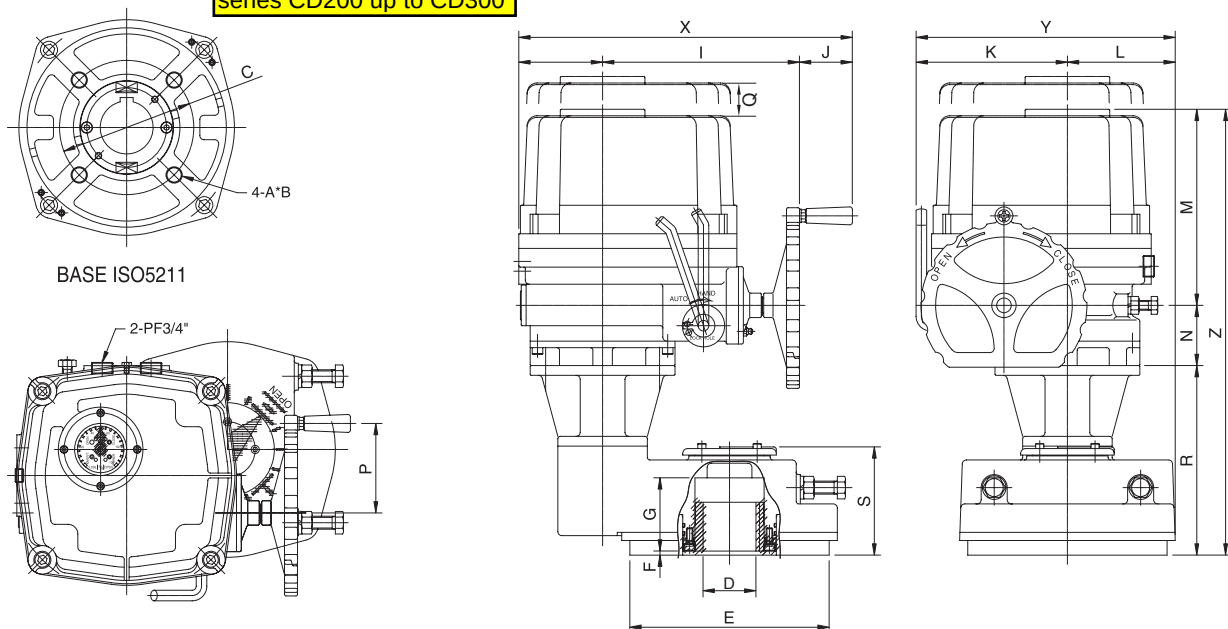


Slot on window cover for draining rainwater

- Rainwater inside of window cover may affect the sealing of window.
- To prevent this, drain slot is useful to prevent this effect.



series CD200 up to CD300

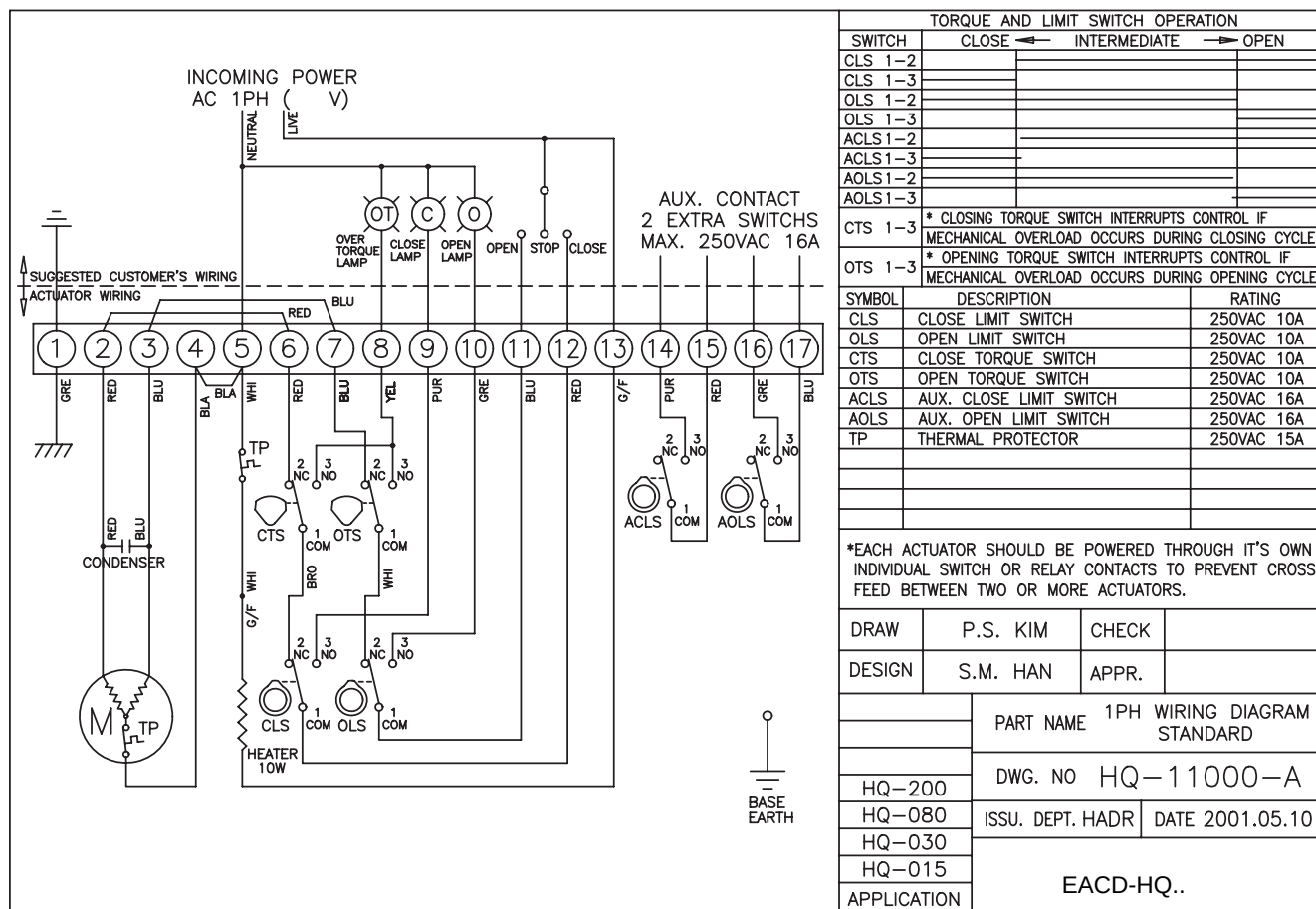


DIMENSION

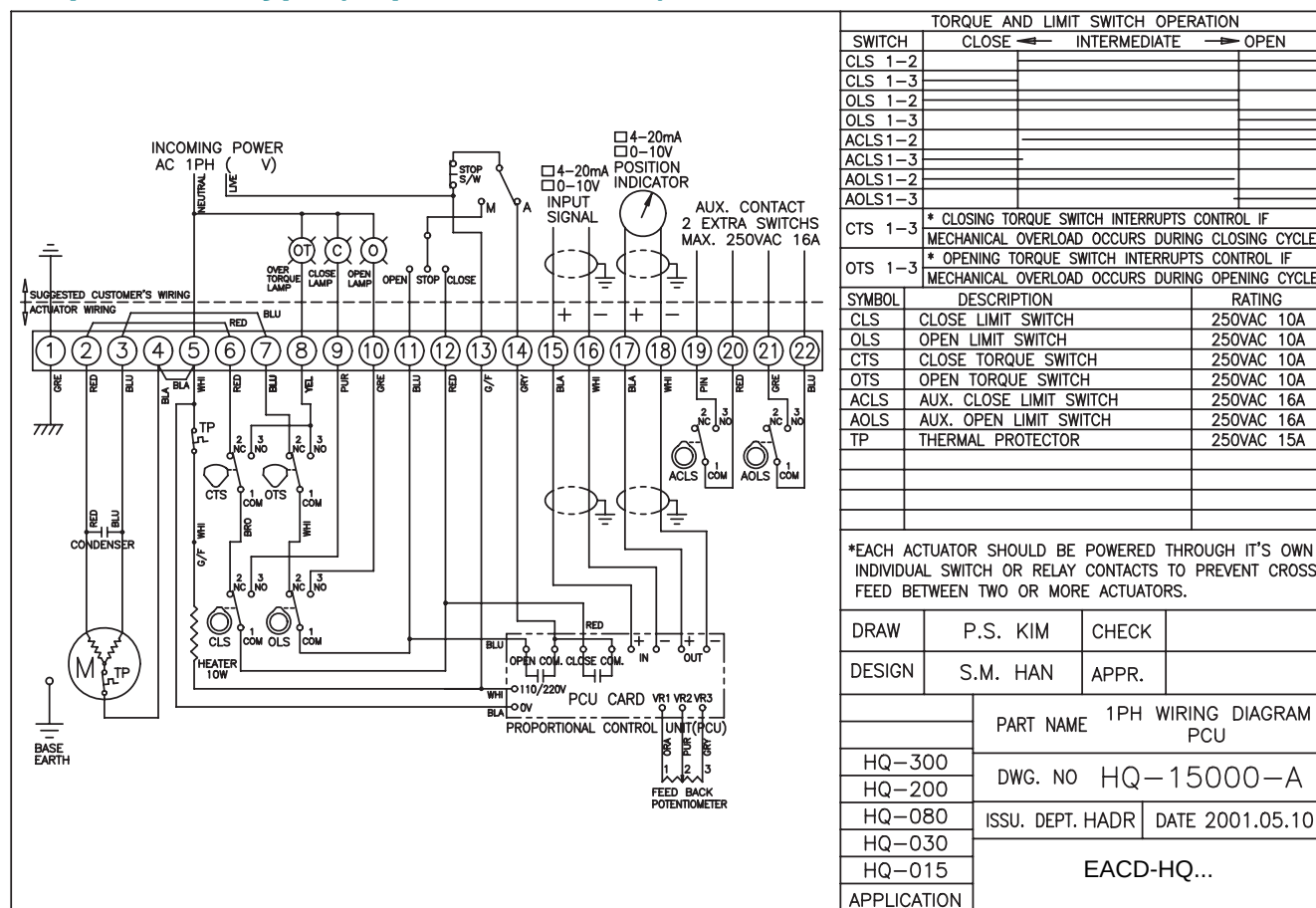
unit(mm)

Model	Base ISO 5211	A	D (max)	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	X	Y	Z
	ϕC	B																			
008	F07	M8	20	88	3	32	50	157	51	100	70	182	53	40	60	120	-	-	258	170	235
	$\phi 70$	12																			
010	F07	M8	20	88	3	32	50	157	51	100	70	182	53	40	60	120	-	-	258	170	235
	$\phi 70$	12																			
015	F07/F10	M8/M10	22	125	3	42	73	200	65	142	87	200	68	54	78	160	-	-	338	229	268
	$\phi 70 \phi 102$	12/15																			
020	F07/F10	M8/M10	22	125	3	42	73	200	65	142	87	200	68	54	78	160	-	-	338	229	268
	$\phi 70 \phi 102$	12/15																			
030	F10/F12	M10/M12	35	148	3	49	82	221	65	160	99	235	69	65	78	180	-	-	368	259	304
	$\phi 102 \phi 125$	15/18																			
050	F10/F12	M10/M12	35	148	3	49	82	221	65	160	99	235	69	65	78	180	-	-	368	259	304
	$\phi 102 \phi 125$	15/18																			
060	F10/F12	M10/M12	35	148	3	49	82	221	65	160	99	235	69	65	78	180	-	-	368	259	304
	$\phi 102/\phi 125$	15/18																			
080	F12/F14	M12/M16	45	178	3	57	103	242	65	186	111	256	74	78	110	210	-	-	410	297	330
	$\phi 125/\phi 140$	18/24																			
120	F12/F14	M12/M16	45	178	3	57	103	242	65	186	111	256	74	78	110	210	-	-	410	297	330
	$\phi 125/\phi 140$	18/24																			
200	F14*/F16	M16*/M20	65	245	5	90	103	242	65	186	133	256	74	78	110	210	233	133	410	319	563
	$\phi 140*/\phi 165$	24*/30																			
300	F14*/F16	M16*/M20	65	245	5	90	103	242	65	186	133	256	74	78	110	210	233	133	410	319	563
	$\phi 140*/\phi 165$	24*/30																			

Standard Type (1- phase, 50/60Hz)



Proportional Type (1- phase, 50/60Hz)



* Wiring drawings are provided upon request.