

JPS JOINT PEER SYSTEC CORP.

JPM *SERIES*

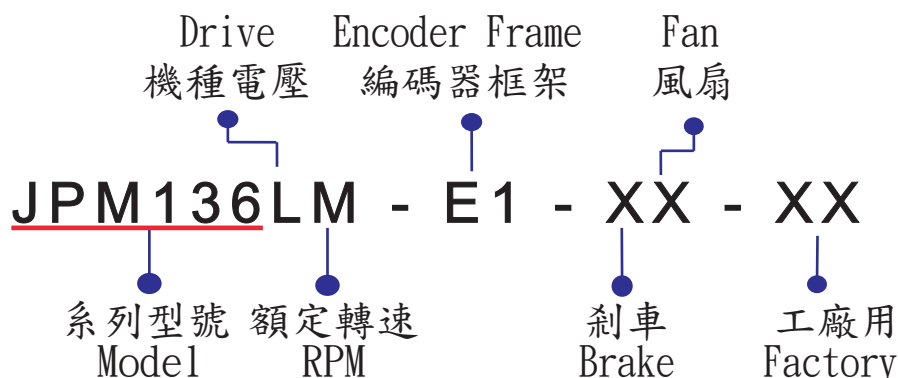
**Elaborate Low Inertia, Fast Dynamic Response,
High Performance Servomotor**



UP TO 400NM

- **Fully laminated yoke, Fast heat ventilation**
- **High torque accuracy**
- **Almost no cogging torque**
- **Compact frame size with high power density**
- **Low inertia, Fast dynamic response**
- **Delicated housing surface**

馬達命名規格 Named Spec



系列型號 Model	JPM136			
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機種電壓 Drive	L	220V	H	380V
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額定轉速 RPM	A	1000	M	1500
	B	2000	N	2500
	C	3000		

編碼器框架 Encoder Frame	型號 Model	解析度 Resolution	極數 Pole	出線型態 Type
E1	TS5214	2500	8	省配型 3W6P
E2	TS5214	2500	8	標準型 6W6P
E3	TS5214	8192	8	省配型 3W6P
E4	TS5214	8192	8	標準型 6W6P

備註 Remark : 1. 3W6P : 3Wire, 6Phase
2. 6W6P : 6Wire, 6Phase

剎車 Brake	X	無剎車 ☐ Brake	B	有剎車 ☒ Brake
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風扇 Fan	X	無風扇 ☐ Fan	F	有風扇 ☒ Fan
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The **JPM** series brushless servomotor with permanent magnet is designed and manufactured for most of industrial applications, which will require high performance, fast dynamic response, good reliability, and free maintenance.

The PM servomotor is made use of new advanced material such as Neodymium Iron, Boron Magnet, low loss Silicon Steel Sheet, to ensure excellent performances.

APPLICATIONS:

- ◎ INJECTION MOLDING MACHINE
- ◎ BLOW MOLDING MACHINE
- ◎ PRESS PUNCHING MACHINE
- ◎ PRESS FEEDER
- ◎ ROTARY CUTTER
- ◎ TEXTILE
- ◎ PRINTING MACHINE
- ◎ MACHINE TOOL
- ◎ ROBOTIC
- ◎ HANDLING SYSTEM
- ◎ CUT TO LENGTH
- ◎ PACKAGING MACHINE
- ◎ FLY SHEAR

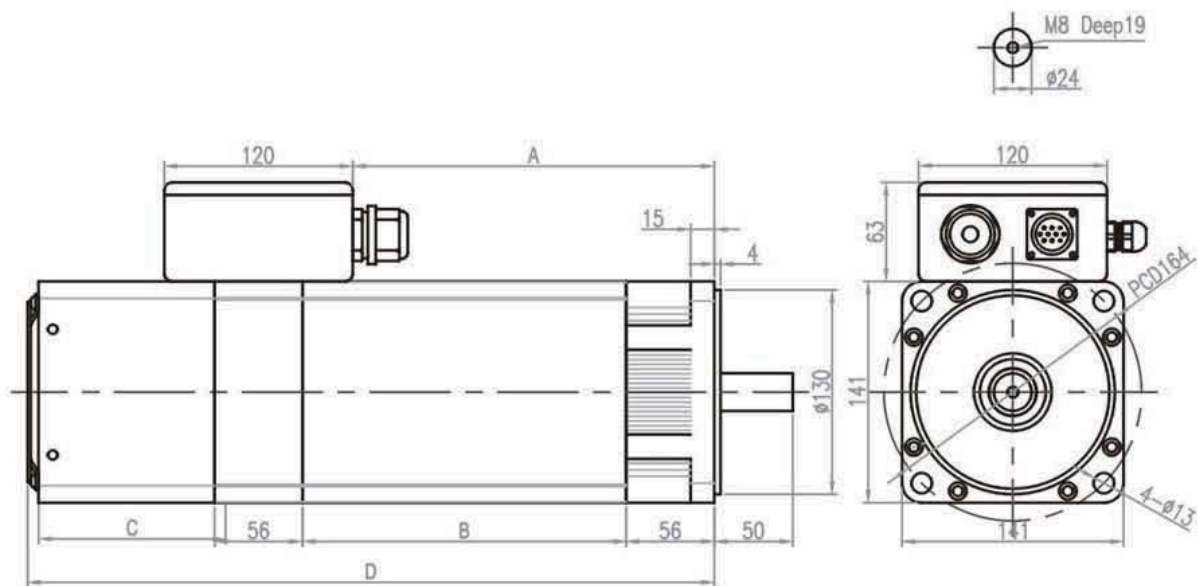
GENERAL SPECIFICATION:

- ◎ INSULATION CLASS OF STATOR WINDING : F
- ◎ INSULATION VOLTAGE : 1500 Vrms/MIN
- ◎ INSULATION RESISTANCE : ABOVE 500 VDC 10M Ω
- ◎ PROTECTION LEVEL : IP55
- ◎ OPERATING AMBIENT ENVIRONMENT :
0~40°C 、 90%RH 、 NON-CONDENSING
- ◎ STORAGE AMBIENT ENVIRONMENT :
-20~60°C 、 90%RH 、 NON-CONDENSING
- ◎ VIBRATION CLASS : BLOW 1.8mm/S
- ◎ MOUNTING :
PM7: B5
PM10: B35
PM13: B35
- ◎ FEEDBACK SYSTEM :
ENCODER +5V 、 LINE DRIVER 、 2500PPR
WITH U,V,W COMMUTATION SIGNALS
- ◎ TERMINAL BOX & CONNECTOR :
POWER : TERMINAL BOX
FEEDBACK DEVICE : CONNECTOR
- ◎ OVER TEMPERATURE PROTECTION : THERMO-SWITCH
- ◎ COOLING:IC416

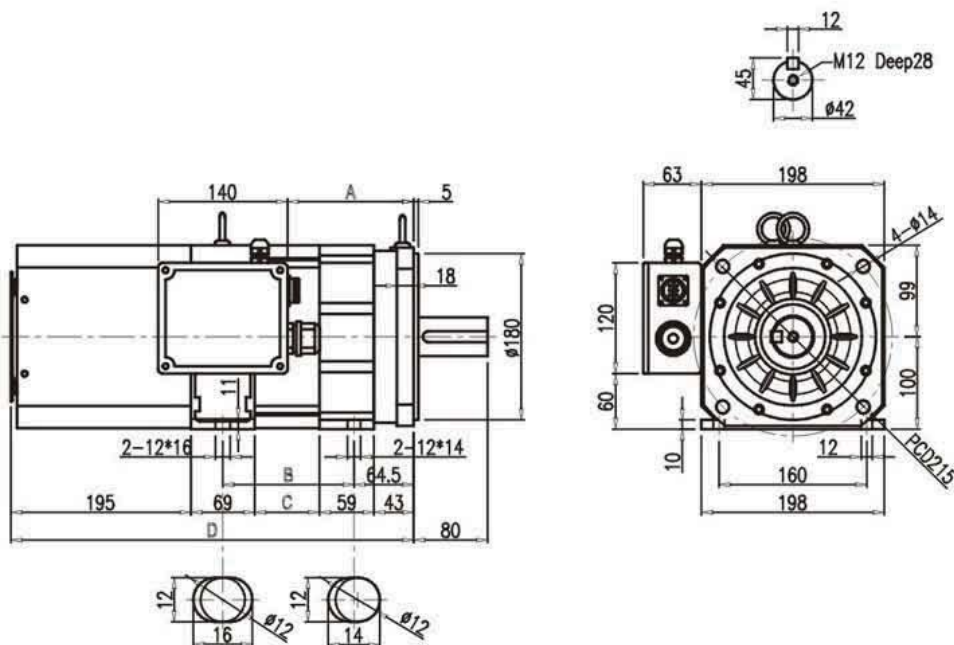
OPTIONS :

- ◎ BRAKE
- ◎ RESOLVER
- ◎ IP65 PROTECTION
- ◎ OIL SEAL
- ◎ SPECIAL Ke 、 Kt
- ◎ SPECIAL FLANGE , SHAFT
- ◎ EXTENSION CABLE FOR MOTOR, ENCODER
- ◎ GEARBOX

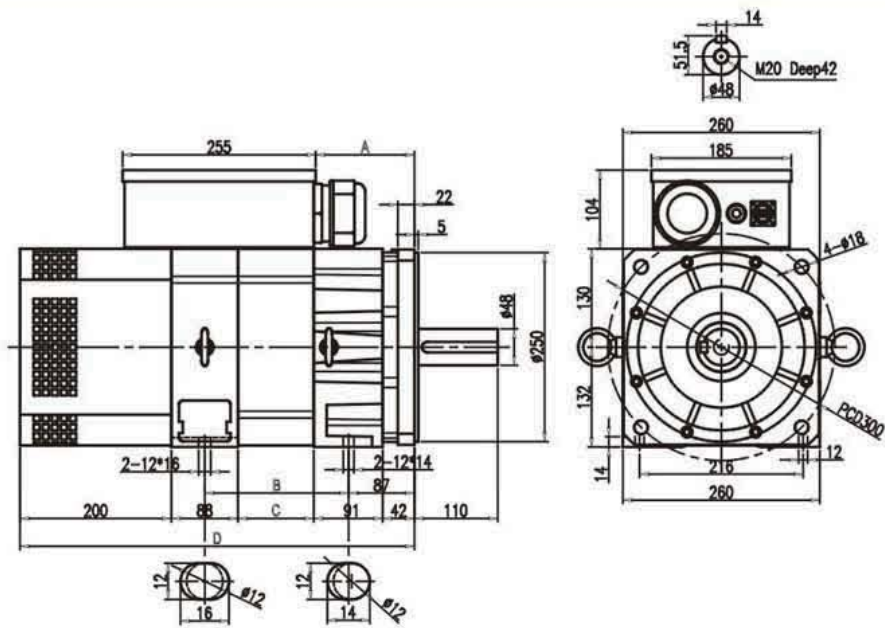




FRAME	PM-072	PM-074	PM-076	PM-078	PM-072 w/Brake	PM-074 w/Brake	PM-076 w/Brake	PM-078 w/Brake
A	74	126	178	230	74	126	178	230
B	50	102	154	206	50	102	154	206
C	119	119	119	119	170	170	170	170
D	281	333	385	437	332	384	436	488



FRAME	PM-102	PM-103	PM-104	PM-105	PM-106	PM-108	PM-109
A	136.5	172.5	208.5	244.5	280.5	348.5	388.5
B	142	178	214	250	286	358	394
C	70	106	142	178	214	286	322
D	436	472	508	544	580	652	688



FRAME	PM-132	PM-133	PM-134	PM-135	PM-136	PM-137	PM-138
A	130.5	185.5	240.5	290.5	345.5	395.5	450.5
B	190	245	300	350	405	455	510
C	100	155	210	260	315	365	420
D	521	576	631	681	736	786	841



JOINT PEER SYSTEC CORP.

JPM Series Synchronous Low Inertia AC Servomotor

IP54, IC416 Forced Cooling Fan, 8 Pole motor
 Motor is based on temperature rising Delta T: 65 degree C (for 400V Drive)
 Delta T: 100 degree C (for 400V Drive) can increase 30% of motor power and torque
 Without cooling fan, motor power and torque will be decreasing 25%-30%

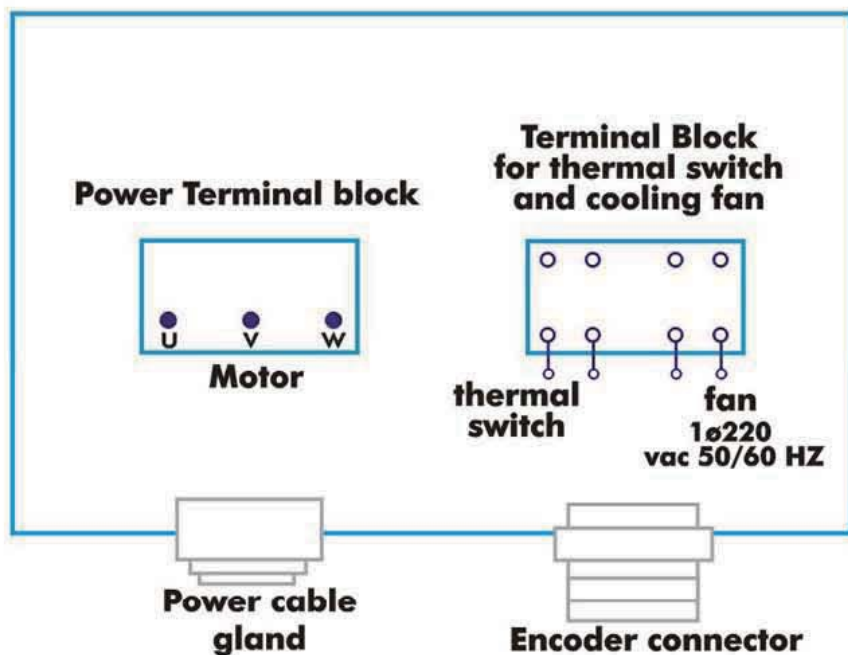
TECHNICAL DATA

Motor Type	Rated Power Kw	Rated Speed Rpm	Rated Torque Nm	Rated Frequency Hz	Rated Current A	Max. Speed Rpm	Peak Torque Nm	Ke (E.M.F) Vrms / 1000rpm	Kt Nm / Arms	Inertia Kg-cm2	Resistance Ohm	Inductance MH	Weight Kg
JPM072LA	1.6	1000	15.6	66.7	2.9	7000	42.1	300	5.4	7	10.00	73.00	21
JPM072LM	2.5	1500	15.6	100.0	4.3	7000	42.1	200	3.6	7	4.44	32.44	
JPM072LB	3.3	2000	15.6	133.3	5.7	7000	42.1	150	2.7	7	2.50	18.25	
JPM072LC	4.9	3000	15.6	200	8.6	7000	42.1	100	1.8	7	1.11	8.11	
JPM074LA	2.5	1000	24.0	66.7	4.3	7000	64.8	300	5.4	13	5.70	44.00	24
JPM074LM	3.8	1500	24.0	100.0	6.5	7000	64.8	200	3.6	13	2.53	19.56	
JPM074LB	5.0	2000	24.0	133.3	8.7	7000	64.8	150	2.7	13	1.43	11.00	
JPM074LC	7.5	3000	24.0	200	13	7000	64.8	100	1.8	13	0.63	4.89	
JPM076LA	3.4	1000	32.0	66.7	5.9	7000	86.4	300	5.4	18	3.60	30.00	27
JPM076LM	5.0	1500	32.0	100.0	8.8	7000	86.4	200	3.6	18	1.60	13.33	
JPM076LB	6.7	2000	32.0	133.3	11.7	7000	86.4	150	2.7	18	0.90	7.50	
JPM076LC	10.1	3000	32.0	200	17.6	7000	86.4	100	1.8	18	0.40	3.33	
JPM078LA	4.2	1000	40.0	66.7	7.5	7000	108.0	300	5.4	24	23.20	600.00	30
JPM078LM	6.3	1500	40.0	100.0	11.2	7000	108.0	200	3.6	24	10.31	266.67	
JPM078LB	8.4	2000	40.0	133.3	14.9	7000	108.0	150	2.7	24	5.80	150.00	
JPM078LC	12.6	3000	40.0	200	22.4	7000	108.0	100	1.8	24	2.58	66.67	
JPM102LA	4.75	1000	45.0	66.65	9	4000	121.5	300	5	60	5.50	54.00	35
JPM102LM	7.1	1500	45.0	100.0	13.5	4000	121.5	200	3.6	60	2.44	24.00	
JPM102LB	9.5	2000	45.0	133.3	18	4000	121.5	150	2.5	60	1.38	13.50	
JPM102LC	14.25	3000	45.0	199.95	27	4000	121.5	100	1.7	60	0.61	6.00	
JPM103LA	5.5	1000	52.2	66.65	10.5	4000	140.9	300	5	75	4.10	46.50	45
JPM103LM	8.3	1500	52.2	100.0	15.8	4000	140.9	200	3.6	75	1.82	20.67	
JPM103LB	11	2000	52.2	133.3	21	4000	140.9	150	2.5	75	1.03	11.63	
JPM103LC	16.5	3000	52.2	199.95	31.5	4000	140.9	100	1.7	75	0.46	5.17	
JPM104LA	7.5	1000	71.3	66.65	14	4000	192.4	300	5	89	2.30	34.20	55
JPM104LM	11.3	1500	71.3	100.0	21.0	4000	192.4	200	3.6	89	1.02	15.20	
JPM104LB	15	2000	71.3	133.3	28	4000	192.4	150	2.5	89	0.58	8.55	
JPM104LC	22.5	3000	71.3	199.95	42	4000	192.4	100	1.7	89	0.26	3.80	
JPM105LA	9.25	1000	87.8	66.65	17.5	4000	237.1	300	5	105	1.45	27.70	65
JPM105LM	13.9	1500	87.8	100.0	26.3	4000	237.1	200	3.6	105	0.64	12.31	
JPM105LB	18.5	2000	87.8	133.3	35	4000	237.1	150	2.5	105	0.36	6.93	
JPM105LC	27.75	3000	87.8	199.95	52.5	4000	237.1	100	1.7	105	0.16	3.08	
JPM106LA	11	1000	104.0	66.65	20.8	4000	280.8	300	5	120	1.03	23.50	75
JPM106LM	16.5	1500	104.0	100.0	31.2	4000	280.8	200	3.6	120	0.46	10.44	
JPM106LB	22	2000	104.0	133.3	41.6	4000	280.8	150	2.5	120	0.26	5.88	
JPM106LC	33	3000	104.0	199.95	62.4	4000	280.8	100	1.7	120	0.11	2.61	

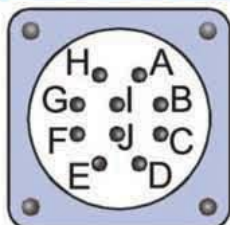
TECHNICAL DATA

Motor Type	Rated Power Kw	Rated Speed Rpm	Rated Torque Nm	Rated Frequency Hz	Rated Current A	Max. Speed Rpm	Peak Torque Nm	Ke (E.M.F.) Vrms / 1000rpm	Kt Nm /Arms	Inertia Kg-cm2	Resistance Ohm	Inductance MH	Weight Kg
JPM108LA	13	1000	124.0	66.65	23.5	4000	334.8	300	5	150	0.80	17.00	95
JPM108LM	19.5	1500	124.0	100.0	37.0	4000	334.8	200	3.6	150	0.40	7.56	
JPM108LB	26	2000	124.0	133.3	47	4000	334.8	150	2.5	150	0.25	4.25	
JPM108LC	39	3000	124.0	199.95	75	4000	334.8	100	1.7	150	0.10	1.89	
JPM109LA	15	1000	142.0	66.65	28.4	4000	383.4	300	5	165	0.55	17.00	105
JPM109LM	22.5	1500	142.0	100.0	42.6	4000	383.4	200	3.6	165	0.24	7.56	
JPM109LB	30	2000	142.0	133.3	56.8	4000	383.4	150	2.5	165	0.14	4.25	
JPM109LC	45	3000	142.0	199.95	85.2	4000	383.4	100	1.7	165	0.06	1.89	
JPM132LA	12.5	1000	118.2	66.65	23.64	4000	236.4	300	5	220	1.05	21.50	113
JPM132LM	18.8	1500	118.2	100.0	35.5	4000	236.4	200	3.6	220	0.47	9.56	
JPM132LB	25	2000	118.2	133.3	47.28	4000	236.4	150	2.5	220	0.26	5.38	
JPM132LC	37.5	3000	118.2	199.95	70.92	4000	236.4	100	1.7	220	0.12	2.39	
JPM133LA	18.75	1000	179.2	66.65	35.8	4000	358.4	300	5	290	0.47	14.33	133
JPM133LM	28.1	1500	179.2	100.0	53.7	4000	358.4	200	3.6	290	0.21	6.37	
JPM133LB	37.5	2000	179.2	133.3	71.6	4000	358.4	150	2.5	290	0.12	3.58	
JPM133LC	56.25	3000	179.2	199.95	107.4	4000	358.4	100	1.7	290	0.05	1.59	
JPM134LA	22.5	1000	215.0	66.65	43	4000	430.0	300	5	360	0.33	12.00	153
JPM134LM	33.8	1500	215.0	100.0	64.5	4000	430.0	200	3.6	360	0.15	5.33	
JPM134LB	45	2000	215.0	133.3	86	4000	430.0	150	2.5	360	0.08	3.00	
JPM134LC	67.5	3000	215.0	199.95	129	4000	430.0	100	1.7	360	0.04	1.33	
JPM135LA	27.5	1000	263.0	66.65	52.6	4000	526.0	300	5	430	0.22	9.78	173
JPM135LM	41.3	1500	263.0	100.0	78.9	4000	526.0	200	3.6	430	0.10	4.35	
JPM135LB	55	2000	263.0	133.3	105.2	4000	526.0	150	2.5	430	0.06	2.45	
JPM135LC	82.5	3000	263.0	199.95	157.8	4000	526.0	100	1.7	430	0.02	1.09	
JPM136LA	32	1000	302.7	66.65	60.4	4000	605.4	300	5	500	0.16	8.40	193
JPM136LM	48.0	1500	302.7	100.0	90.6	4000	605.4	200	3.6	500	0.07	3.73	
JPM136LB	64	2000	302.7	133.3	120.8	4000	605.4	150	2.5	500	0.04	2.10	
JPM136LC	96	3000	302.7	199.95	181.2	4000	605.4	100	1.7	500	0.02	0.93	
JPM137LA	37.5	1000	354.7	66.65	71	4000	709.4	300	5	570	0.12	7.20	213
JPM137LM	56.3	1500	354.7	100.0	106.5	4000	709.4	200	3.6	570	0.05	3.20	
JPM137LB	75	2000	354.7	133.3	142	4000	709.4	150	2.5	570	0.03	1.80	
JPM137LC	112.5	3000	354.7	199.95	213	4000	709.4	100	1.7	570	0.01	0.80	
JPM138LA	41	1000	387.7	66.65	77.5	4000	775.4	300	5	630	0.10	6.60	233
JPM138LM	61.5	1500	387.7	100.0	116.3	4000	775.4	200	3.6	630	0.04	2.93	
JPM138LB	82	2000	387.7	133.3	155	4000	775.4	150	2.5	630	0.03	1.65	
JPM138LC	123	3000	387.7	199.95	232.5	4000	775.4	100	1.7	630	0.01	0.73	

CONNECTION

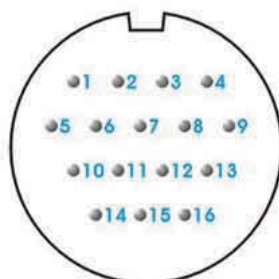


RESOLVER



SECONDARY			
A	S1	RED	
B	S2	YEL	
C	S3	BLK	
D	S4	BLU	
PRIMARY			
H	R1	RED/WHT	AC
I	R2	YEL/WHT	TV

ENCODER CONNECTION

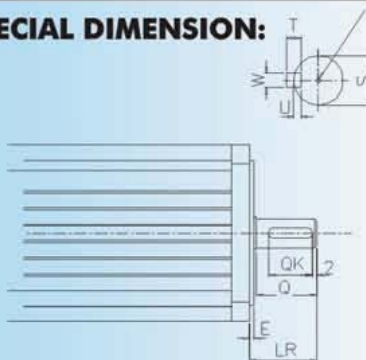
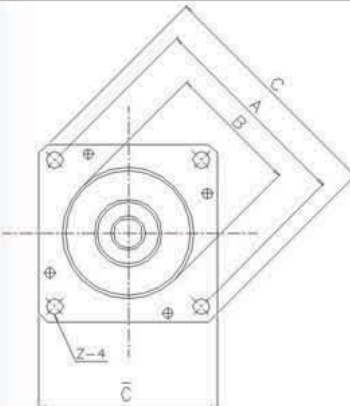


- 1 → A
- 2 → $\bar{A}$
- 3 → B
- 4 → $\bar{B}$
- 5 → Z

- 6 → $\bar{Z}$
- 7 → U
- 8 → $\bar{U}$
- 9 → V
- 10 → $\bar{V}$
- 11 → W
- 12 → $\bar{W}$
- 13 → +VCC
- 14 → OV
- 15 → Shield



INQUIRY-FORM

RATED TORQUE	NM	PEAK TORQUE	NM
RATED SPEED	RPM	MAX SPEED	RPM
RATED OUTPUT POWER	KW	PEAK OUTPUT POWER	KW
Ke:	Vrms/1000RPM	Kt:	NM/A
		Protection:	IP _____
FEEDBACK SYSTEM	☐ WITHOUT ☐ ENCODER ☐ RESOLVER		
Descriptions of Encoder or Resolver:			
BRAKE	☐ WITH ☐ WITHOUT		VOLTAGE OF BRAKE: _____V, ☐ AC ☐ DC
ENCODER CONNECTION	☐ FLYING LEADS, ☐ CONNECTOR, LENGTH OF CABLE _____mm		
MOTOR CONNECTION	☐ FLYING LEADS ☐ CONNECTOR ☐ TERMINAL BOX LENGTH OF CABLE _____mm		
BRAKE CONNECTOR	☐ FLYING LEADS, ☐ CONNECTOR, LENGTH OF CABLE _____mm		
GEARBOX	RATIO: _____ , BACKLASH: _____		
COOLING: ☐ SELF-COOLED, ☐ FORCED AIR COOLING; VOLTAGE OF FAN MOTOR: _____			
SPECIAL DIMENSION:   A: _____ S: _____ B: _____ T: _____ Z: _____ U: _____ Q: _____ W: _____ QK: _____ E: _____ LR: _____			

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