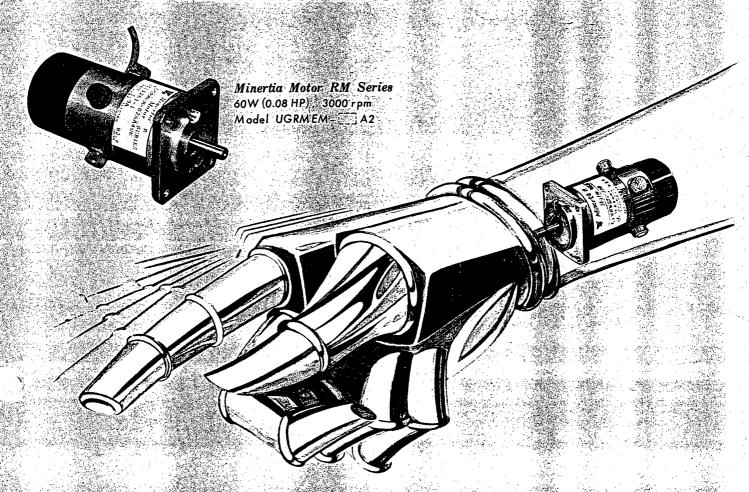
YASKAWA ELECTRIC

Excellent Performance/Size Ratio in a Small Package

Minertia Motors RM Series

for Industrial Robot Drives



Minertia motor is Yaskawa's tradename for minimum inertia DC servomotors. RM series is a new line introduced for integration into robots as an articulate power drive. The RM series features small size, light weight, yet excellent torque/weight and torque/volume rating, in addition, to ideal performance characteristics for servodrive applications:

FEATURES

50% Less Weight for the Output Equal to Motors Previously.
 Available.

Even with built-in feedback unit such as DC tachometer generator and encorder, the unit size is 219 mm. (8.63 inches) in total length, 120 mm. (4.73 inches) diameter and 2.6 kg. (5.7 lb.) in weight for a 300W (0.4 HP) motor. The weight is a half of that of a conventional motor, having the same output.

Rare Earth Magnet for Quality Performance

Rare earth magnets and iron core in a TENV motors assures high efficiency and superb control performance where weight and volume are at a premium.

RATINGS AND SPECIFICATIONS

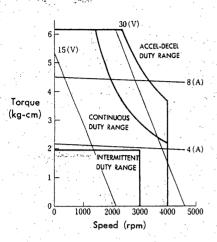
• Time: Rating: Continuous

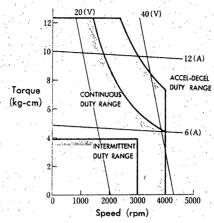
● Ambient Temperature: -10 to #40°C

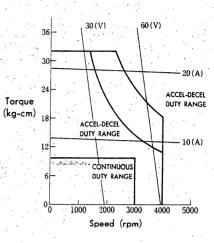
Control of the second of the s			25.0	يداو في مر	meino	
Minertia Motor	UGRMEM-					
Model Model	02SA2	02MA2	04SA2	04MA2	08SA2	
Rated Output (W)	60 (0.08)	100 (0.13)	120 (0.16)	200 (0.27)	300 (0.40)	
Rated Totque (kg·cm)	1.95 (30)	3.25 (50)	3.9 (60)	6.5 (100)	9.74 (150)	
Rated:Speed (rpm)	3000	3000	3000	3000	3000	
Rated Voltage > (V)	25	32	32	42	49.6	
Rated Current (A)	3.9	4.5	5.3	6.2	7.5	
Power Rate (kW:/sec)	2.86	4.45	1.87	2.97	2.20	
Momentary (kg.cm) Peak Torque (1bin.)	11.2 (150)	18.4 (250)	22.5 (300)	37.1 (500)	54 (750)	
Momentary Peak Current (A)	19.5	22.5	26.5	31	37.5	
Momentary (rpm) Max. Speed	4000	4000	4000	4000	4000	
Armature (g.cm.sec²) Inertia (J) (1bin-5×=10³)	0.16 (2.22)	0.285 (3.96)	0.98 (13.6)	1.71 (23.7)	5.2 (72.2)	

UNQUE-SPEED CHARACTERISTICS

- √....n-02SA2
- Type UGRMEM-04SA2
- Type UGRMEM-08SA2

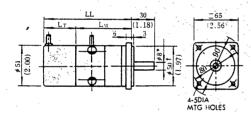




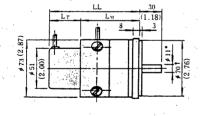


DIMENSIONS in mm (inches)

Type UGRMEM-02[]



Type UGRMEM-04





Type UGRMEM-08[]

	LT	LL L _N	(1.18)	☐ 120 (4.72)
	<u></u>	10	3	
\$ 102 (2.87) \$73 (2.87)			\$ 110 (4.33)	
			-t∵µ L	4-9 DIA MTG HOLES

- 2. Tolerance on shaft and flange rabbet in mm.

t _0.030

	Detector :	Dimensions (inches)			
UGRMEM-	Combined	∰ IL	LM	二世族統領	
.√02SA20E	Encorder	115 (4.52)	76	39	
02SA207	DC Generator	128 (5.04)	<i>7</i> 6	52	
02MA 20E	Encorder	143 (5.63)	104	:39	
02MA207	DC Generator	156 (6.14)	104	52	
. 04SA20E	Encorder	120 (4.72)	81	39	
04\$A207	DC Generator	133 (5.24)	81	52	
04MA20E	Encorder	146 (5.51)	107	41	
. 04MA207	DC Generator	159 (6.26)	107	52	
08SA20E	Encorder	1 <i>74</i> (6.85)	93	81	
-08SA207	DC Generator	190 (7.48)	93.	97	

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