Unimotor

Product Data Sheet for   089mm frame motor

Version 1.0

Motor Performance data at Δt 100℃. Maximum ambient 40℃			
All data subject to +/- 10% tolerance		kt,ke and stall current stated at a 20℃ motor temperature	
Standard Peak Torque (Nm)	9.6		
Continuous Stall Torque (Nm)	3.2		
Stall Current (A)	2.0	Rated Torque (Nm) @3000rpm	3.0
Kt (Nm/A)	1.60	Rated Power (kW) @3000rpm	0.9
Ke (V/krpm)	98	Number of poles	10
Standard Inertia (kgcm²)	0.9	Resistance (Ohms)	10.32
Unbraked Motor Weight (kg)	3.3	Inductance (mH)	67.65
Feedback device ECN1313	Incremental encoder (4096ppr) with commutation		
Encoder set	DC commutation set zero position U+ve and V/W -ve		
Thermal Monitoring Thermistor Type	KTY84-130		
Motor Rated Voltage	480V AC		
Max. DC Voltage between Terminals	680V DC		
UL insulation system file number	E214439 - (designated CL.F)		

Radial Force @ 15mm from front mounting face	Axial Force
540	25

Bearings	
Front	Rear
6304ZZ	6202ZZ

Dust seal	Fitted with spring

Performance graph

Torque-Speed Characteristics

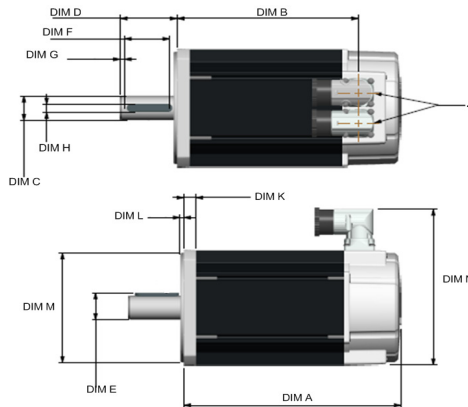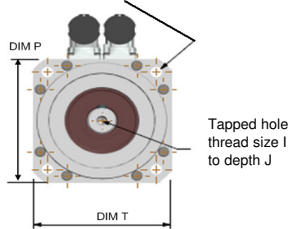- Continuous Torque
- Intermittent - 400V
- Intermittent - 440V
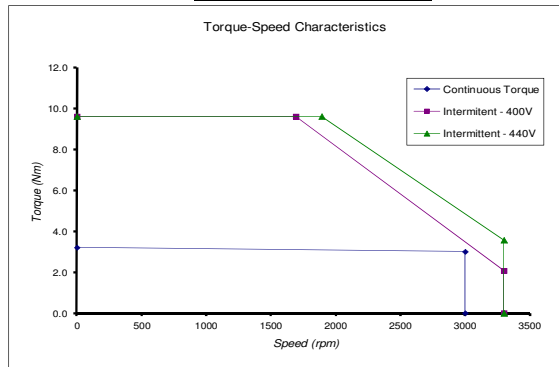
Dimensional Information

Motor shown is a 115 frame size

Note: Output key dimensions (Dim E,F,G and H) applicable to keyed units only

4 Holes Ø Dim R (H14) on a mounting PCD Ø Dim S

Tapped hole thread size I to depth J

DIM D, DIM F, DIM G, DIM B, DIM H, DIM C, DIM L, DIM K, DIM M, DIM N, DIM E, DIM A, DIM P, DIM T

Motor Type = 115D		mm
Unbraked Motor Length	A (± 0.9)	137.8
	B (± 1.0)	110.5
Flange Thickness	K (± 0.5)	10.3
Register Length	L (± 0.1)	2.2
Register Diameter	M (j6)	80.0
Overall Height	N (± 1.0)	130.5
Flange Square	P (± 0.7)	91.0
Fixing Hole Diameter	R (H14)	7.0
Fixing Hole PCD	S (± 0.4)	100.0
Motor Housing	T (± 0.31)	89.0
Mounting Bolt		M6

Shaft Size = 24.0 No Key		mm
Shaft Diameter	C (j6)	14.0
Shaft Length	D (± 0.45)	30.0
Key Height	E	16
Key Length	F	22.0
Shaft Key to Shaft End	G	3.6
Key Width	H	5.0
Tapped hole Thread Size	I	M5 x 0.8
Tapped Hole Depth	J (±1.0)	13.5

(The drawing is a representation only and although the dimension legends will be the same it may not be an exact picture of the motor)