

Product Data Sheet for **142mm frame motor**

Version 4.21

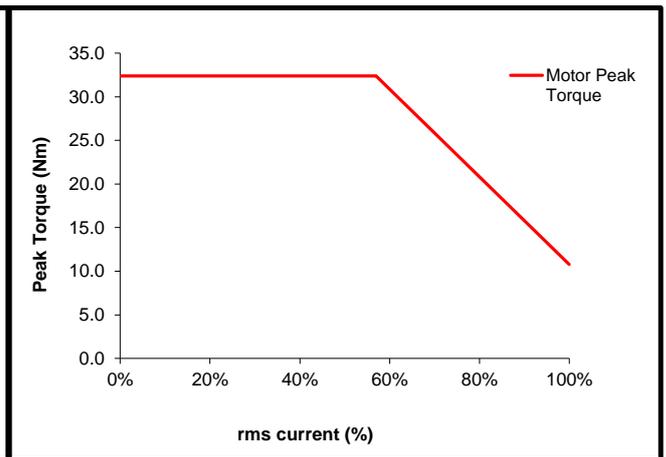
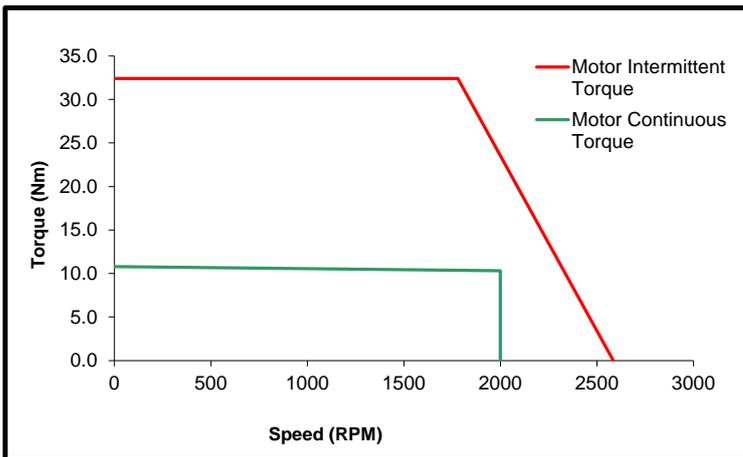
Motor Performance data at Δt 100°C. Maximum ambient 40°C			
All data subject to +/- 10% tolerance		Kt,Ke and stall current stated at a 20°C motor temperature	
Continuous Stall Torque (Nm)	10.80	Kt (Nm/A)	2.40
Standard Peak Torque (Nm)	32.40	Ke (V/krpm)	147.00
High Inertia (kgcm ²)	29.9	Rated Torque (Nm)	10.30
Thermal Time Constant (S)	217	Stall Current (A)	4.50
Unbraked Motor Weight (kg)	13.30	Rated Power (kW)	2.16
Number of poles	6	Resistance (Ohms)	3.60
		Inductance (mH)	35.90

Switching Frequency	12kHz	Switching Freq De-Rate Applied	1.00
Motor Voltage	400(VAC)		
Power Cable SP 1 - 4	PSBGFA		
Power Cable DST & SP0	PSBGHA		
Signal Cable	SSBAHN (max 20m)		
Feedback Device	Sincos Single turn	EnDat - ECI 1319 - 32ppr - 8V - 19 bits	

Performance graph

Torque/Speed Graph

Peak Torque Graph (Max period of 250ms,rms 3000rpm)

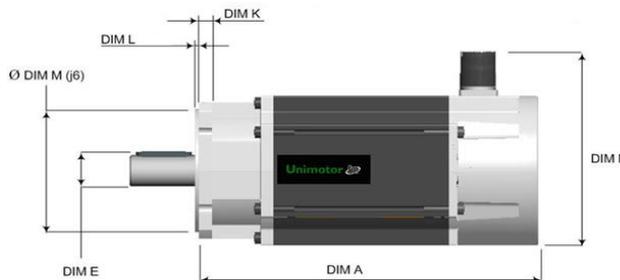
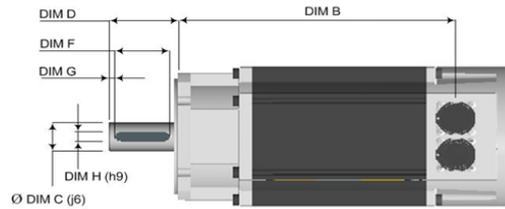
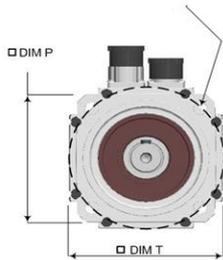


Dimensional Information

Motor shown is a 115 frame size

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

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



For vertical connectors allow approximately 175.0mm clearance for mating cable

Motor Type = 142B Std		mm
Unbraked Motor Length	A (± 0.9)	256.2
	B (± 1.0)	213.0
Flange Thickness	K (± 0.5)	11.6
Register Length	L (± 0.1)	3.4
Register Diameter	M ($j6$)	130.0
Overall Height	N (± 1.0)	176.0
Flange Square	P (± 0.2)	142.0
Fixing Hole Diameter	R (H14)	12.0
Fixing Hole PCD	S (± 0.4)	165.0
Motor Housing	T (± 0.7)	142.0
Mounting Bolt		M10

Shaft Size = 28.0 Opt		mm
Shaft Diameter	C ($j6$)	28.0
Shaft Length	D (± 0.45)	60.0
Key Height	E (To IEC 72-1)	
		31
Key Length	F (± 0.25)	50.0
Shaft Key to Shaft End	G (± 1.1)	4.6
Key Width	H (h9)	8.0
Tapped hole Thread Size	I	M10x1.5
Tapped Hole Depth	J (± 1.0)	23.0

(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)