

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency Three-Phase Product code : 11792016
Catalog # : 00536EG3E184T-W22

Frame : 182/4T	Cooling method : IC411 - TEFC
Insulation class : F	Mounting : F-1
Duty cycle : Cont.(S1)	Rotation ¹ : Both (CW and CCW)
Ambient temperature : -20°C to +40°C	Starting method : Direct On Line
Altitude : 1000 m.a.s.l.	Approx. weight ² : 99.8 lb
Protection degree : IP55	Moment of inertia (J) : 0.2233 sq.ft.lb
Design : A	

Output [HP]	5	5	5	5
Poles	2	2	2	2
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	12.0/5.99	7.06	6.70	6.54
L. R. Amperes [A]	98.2/49.1	50.8	52.3	54.3
LRC [A]	8.2x(Code J)	7.2x(Code H)	7.8x(Code J)	8.3x(Code J)
No load current [A]	4.80/2.40	2.30	2.50	2.60
Rated speed [RPM]	3505	2885	2890	2905
Slip [%]	2.64	3.83	3.67	3.17
Rated torque [ft.lb]	7.39	8.98	8.96	8.92
Locked rotor torque [%]	240	210	240	260
Breakdown torque [%]	350	310	350	370
Service factor	1.25	1.25	1.15	1.15
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	54s (cold) 30s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)
Noise level ²	69.0 dB(A)	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)
Efficiency (%)	25%	85.8	87.1	88.2
	50%	87.5	87.5	88.5
	75%	88.5	88.5	89.5
	100%	90.2	88.5	89.5
Power Factor	25%	0.47	0.53	0.49
	50%	0.73	0.78	0.75
	75%	0.83	0.86	0.84
	100%	0.86	0.90	0.89

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6207 ZZ	6206 ZZ	Max. traction : 164 lb
Sealing :	V'Ring	V'Ring	Max. compression : 263 lb
Lubrication interval :	-	-	
Lubricant amount :	-	-	
Lubricant type :	Mobil Polyrex EM		

Notes

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	24/01/2018			
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