

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12821975
Catalog # : 00336ET3ER182TC-W22

Frame : 182TC	Cooling method : IC411 - TEFC
Insulation class : F	Mounting : W-6
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 : 95.1 lb
Protection degree : IP55	Moment of inertia (J) : 0.1889 sq.ft.lb
Design : B	

Output [HP]	3	2	2	2	3	3	3
Poles	2	2	2	2	2	2	2
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	208-230/460	380	400	415	380	400	415
Rated current [A]	8.01-7.26/3.63	3.09	3.00	2.96	4.34	4.17	4.02
L. R. Amperes [A]	68.9-62.4/31.2	29.7	32.1	32.9	29.5	31.7	32.6
LRC [A]	8.6x(Code K)	9.6x(Code L)	10.7x(Code M)	11.1x(Code N)	6.8x(Code H)	7.6x(Code J)	8.1x(Code J)
No load current [A]	2.24-2.60/1.30	1.25	1.35	1.40	1.25	1.35	1.40
Rated speed [RPM]	3515	2930	2940	2945	2885	2900	2910
Slip [%]	2.36	2.33	2.00	1.83	3.83	3.33	3.00
Rated torque [ft.lb]	4.42	3.54	3.52	3.52	5.39	5.36	5.34
Locked rotor torque [%]	250	310	360	390	210	240	260
Breakdown torque [%]	380	440	500	550	290	330	360
Service factor	1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	73s (cold) 41s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)
Noise level ²	69.0 dB(A)						
Efficiency (%)	25%	82.0	79.5	79.1	77.9	84.4	83.6
	50%	82.5	81.0	80.6	79.7	84.0	84.0
	75%	86.5	84.5	84.5	84.1	86.5	86.5
	100%	86.5	85.8	85.8	85.9	85.5	86.5
Power Factor	25%	0.50	0.44	0.41	0.39	0.56	0.50
	50%	0.75	0.68	0.65	0.63	0.80	0.75
	75%	0.84	0.79	0.77	0.75	0.87	0.84
	100%	0.88	0.86	0.84	0.82	0.90	0.88

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6207 ZZ	6206 ZZ	Max. traction : 77 lb
Sealing :	V'Ring	V'Ring	Max. compression : 172 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	23/01/2018			

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Revision