

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12770004
Catalog # : 07536ET3E365TS-W22G

Frame : 364/5TS	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 : 857 lb
Protection degree : IP55	Moment of inertia (J) : 11.9 sq.ft.lb
Design : B	

Output [HP]	75	50	50	50	75	75	75
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]	181-164/81.9	66.7	64.8	62.4	99.4	94.8	91.4
L. R. Amperes [A]	1214-1097/549	527	557	574	527	559	576
LRC [A]	6.7x(Code G)	7.9x(Code H)	8.6x(Code J)	9.2x(Code K)	5.3x(Code E)	5.9x(Code F)	6.3x(Code F)
No load current [A]	37.9-44.0/22.0	22.0	23.3	24.6	22.0	23.3	24.6
Rated speed [RPM]	3555	2960	2965	2970	2940	2945	2950
Slip [%]	1.25	1.33	1.17	1.00	2.00	1.83	1.67
Rated torque [ft.lb]	109	87.5	87.4	87.2	132	132	132
Locked rotor torque [%]	200	240	260	290	160	175	190
Breakdown torque [%]	260	320	350	380	210	229	250
Service factor	1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time	18s (cold) 10s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)
Noise level ²	79.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)
Efficiency (%)	25%	92.2	90.0	90.7	91.1	92.7	93.4
	50%	92.4	91.2	91.5	91.8	92.4	93.0
	75%	93.6	92.5	93.0	93.1	93.0	93.6
	100%	93.6	93.7	93.7	93.7	92.4	93.0
Power Factor	25%	0.59	0.51	0.47	0.45	0.64	0.58
	50%	0.83	0.75	0.72	0.70	0.86	0.83
	75%	0.88	0.85	0.83	0.82	0.90	0.88
	100%	0.90	0.90	0.88	0.88	0.91	0.90

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6314 C3	6314 C3	Max. traction : 714 lb
Sealing :	WSeal	WSeal	Max. compression : 1571 lb
Lubrication interval :	4000 h	4000 h	
Lubricant amount :	27 g	27 g	
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	19/01/2018		Page 1 / 1	Revision