

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase
Product code : 12205951
Catalog # : 06018ET3E364TC-W22

Frame : 364/5TC	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 : 948 lb
Protection degree : IP55	Moment of inertia (J) : 22.4 sq.ft.lb
Design : B	

Output [HP]	60	50	50	50	60	60	60
Poles	4	4	4	4	4	4	4
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	208-230/460	380	400	415	380	400	415
Rated current [A]	151-137/68.3	67.8	65.2	64.3	83.5	78.9	76.5
L. R. Amperes [A]	1000-902/451	427	450	476	434	458	474
LRC [A]	6.6x(Code G)	6.3x(Code G)	6.9x(Code G)	7.4x(Code H)	5.2x(Code E)	5.8x(Code F)	6.2x(Code G)
No load current [A]	41.4-48.0/24.0	23.8	25.3	26.6	23.8	25.3	26.6
Rated speed [RPM]	1775	1470	1475	1475	1465	1470	1470
Slip [%]	1.39	2.00	1.67	1.67	2.33	2.00	2.00
Rated torque [ft.lb]	175	176	176	176	212	211	211
Locked rotor torque [%]	240	229	250	280	190	210	229
Breakdown torque [%]	260	240	280	300	200	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	27s (cold) 15s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)
Noise level ²	67.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
Efficiency (%)	25%	93.5	93.3	92.9	93.1	94.5	93.9
	50%	94.1	93.7	93.3	93.4	94.1	94.1
	75%	94.5	93.9	93.9	94.2	93.6	94.1
	100%	95.0	94.2	94.2	94.3	93.0	94.1
Power Factor	25%	0.49	0.49	0.45	0.43	0.55	0.49
	50%	0.75	0.74	0.70	0.68	0.80	0.75
	75%	0.83	0.84	0.82	0.80	0.86	0.83
	100%	0.87	0.88	0.87	0.86	0.88	0.87

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6314 C3	6314 C3	Max. traction : 1360 lb
Sealing :	WSeal	WSeal	Max. compression : 2308 lb
Lubrication interval :	12000 h	12000 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	24/01/2018			

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Revision