

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11441798
Catalog # : 02036ET3E256T-W22

Frame : 254/6T	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 : 288 lb
Protection degree : IP55	Moment of inertia (J) : 1.54 sq.ft.lb
Design : B	

Output [HP]	20	15	15	15	20	20	20
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]	51.3-46.4/23.2	20.4	19.6	19.1	28.6	27.2	26.0
L. R. Amperes [A]	313-283/142	141	151	155	146	155	159
LRC [A]	6.1x(Code G)	6.9x(Code G)	7.7x(Code H)	8.1x(Code J)	5.1x(Code E)	5.7x(Code F)	6.1x(Code G)
No load current [A]	11.2-13.0/6.50	6.40	6.85	7.15	6.40	6.85	7.15
Rated speed [RPM]	3520	2925	2935	2940	2895	2905	2915
Slip [%]	2.22	2.50	2.17	2.00	3.50	3.17	2.83
Rated torque [ft.lb]	29.4	26.6	26.5	26.4	35.8	35.7	35.5
Locked rotor torque [%]	200	220	240	270	160	180	200
Breakdown torque [%]	240	260	280	310	190	210	229
Service factor	1.25	1.15	1.15	1.15	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	37s (cold) 21s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)
Noise level ²	72.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)
Efficiency (%)	25%						
	50%	91.0	90.6	90.4	89.8	91.0	91.0
	75%	91.7	90.9	91.2	91.1	90.2	91.0
	100%	91.0	91.2	91.2	91.2	88.5	89.5
Power Factor	25%						
	50%	0.82	0.78	0.75	0.73	0.86	0.84
	75%	0.87	0.87	0.85	0.84	0.89	0.88
	100%	0.89	0.90	0.89	0.88	0.90	0.89

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6309 C3	6209 C3	Max. traction : 253 lb
Sealing	: V'Ring	V'Ring	Max. compression : 541 lb
Lubrication interval	: 19000 h	20000 h	
Lubricant amount	: 13 g	9 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	27/01/2018			

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Revision