

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12445724
Catalog # : 00318ET3E182TC-W22

Frame : 182/4TC	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 : 93.0 lb
Protection degree : IP55	Moment of inertia (J) : 0.3401 sq.ft.lb
Design : B	

Output [HP]	3	3	3	3
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	208-230/460	380	400	415
Rated current [A]	8.65-7.82/3.91	4.60	4.48	4.43
L. R. Amperes [A]	70.1-63.3/31.7	29.0	31.4	33.2
LRC [A]	8.1x(Code K)	6.3x(Code H)	7.0x(Code J)	7.5x(Code J)
No load current [A]	3.45-4.00/2.00	2.00	2.15	2.25
Rated speed [RPM]	1760	1445	1450	1455
Slip [%]	2.22	3.67	3.33	3.00
Rated torque [ft.lb]	8.83	10.8	10.7	10.7
Locked rotor torque [%]	229	180	210	240
Breakdown torque [%]	340	260	290	320
Service factor	1.25	1.25	1.25	1.25
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	41s (cold) 23s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)
Noise level ²	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%	86.4	87.2	87.3
	50%	87.5	87.5	87.5
	75%	88.5	87.5	87.5
	100%	89.5	87.5	87.5
Power Factor	25%	0.36	0.42	0.39
	50%	0.61	0.68	0.64
	75%	0.73	0.79	0.76
	100%	0.79	0.83	0.81

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6207 ZZ	6206 ZZ	Max. traction : 175 lb
Sealing :	V'Ring	V'Ring	Max. compression : 268 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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Revision