

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 P Base NEMA Premium
Efficiency Three-Phase

Product code : 13128895

Catalog # : 00156ET3E143HP-W22

Frame	: L143HP	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	: 39.7 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.0470 sq.ft.lb
Design	: B		

Output [HP]	1.5	1	1	1	1.5	1.5	1.5
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]	4.20-3.92/1.96	1.63	1.60	1.58	2.36	2.24	2.21
L. R. Amperes [A]	37.4-34.9/17.4	15.8	16.7	17.4	15.8	16.6	17.5
LRC [A]	8.9x(Code L)	9.7x(Code M)	10.4x(Code N)	11.0x(Code P)	6.7x(Code H)	7.4x(Code J)	7.9x(Code K)
No load current [A]	1.29-1.50/0.750	0.740	0.800	0.850	0.740	0.800	0.850
Rated speed [RPM]	3490	2910	2920	2925	2850	2865	2880
Slip [%]	3.06	3.00	2.67	2.50	5.00	4.50	4.00
Rated torque [ft.lb]	2.23	1.78	1.77	1.77	2.73	2.71	2.70
Locked rotor torque [%]	350	409	470	520	270	310	340
Breakdown torque [%]	380	430	490	530	280	320	350
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	37s (cold) 21s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²	68.0 dB(A)						
Efficiency (%)	25%						
	50%	81.5	80.5	79.3	78.9	82.5	82.5
	75%	84.0	83.2	82.8	82.7	84.0	84.0
	100%	84.0	83.6	83.7	83.8	81.5	82.5
Power Factor	25%						
	50%	0.70	0.64	0.60	0.58	0.75	0.70
	75%	0.80	0.75	0.72	0.70	0.84	0.80
	100%	0.84	0.82	0.79	0.77	0.87	0.84

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6307 ZZ	6204 ZZ	Max. traction
Sealing	: V'Ring	V'Ring	Max. compression
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	27/01/2018			

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Revision