

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 13129039

Catalog # : 02518ET3E284HP-W22

Frame	: 284HP	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	: 413 lb
Protection degree	: IP55	Moment of inertia (J)	: 5.11 sq.ft.lb
Design	: B		

Output [HP]	25	20	20	20	25	25	25
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]	65.2-59.0/29.5	29.1	28.2	27.5	35.6	34.0	33.2
L. R. Amperes [A]	404-366/183	175	189	198	174	187	196
LRC [A]	6.2x(Code G)	6.0x(Code G)	6.7x(Code H)	7.2x(Code J)	4.9x(Code E)	5.5x(Code F)	5.9x(Code G)
No load current [A]	18.1-21.0/10.5	10.4	11.1	11.6	10.4	11.1	11.6
Rated speed [RPM]	1765	1465	1470	1470	1445	1455	1460
Slip [%]	1.94	2.33	2.00	2.00	3.67	3.00	2.67
Rated torque [ft.lb]	73.4	70.7	70.5	70.5	89.6	89.0	88.7
Locked rotor torque [%]	240	229	260	290	180	210	229
Breakdown torque [%]	270	260	300	330	210	240	260
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	80 K
Locked rotor time	43s (cold) 24s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)
Noise level ²	64.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)
Efficiency (%)	25%	91.7	91.1	91.0	90.8	92.2	92.2
	50%	92.4	91.3	91.3	91.2	92.4	92.4
	75%	93.0	92.1	92.5	92.5	91.7	92.4
	100%	93.6	92.1	92.6	92.7	91.7	92.4
Power Factor	25%	0.46	0.45	0.42	0.39	0.53	0.46
	50%	0.70	0.69	0.65	0.62	0.76	0.70
	75%	0.80	0.80	0.78	0.75	0.84	0.80
	100%	0.84	0.85	0.83	0.82	0.86	0.84

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6312 C3	6211 C3	Max. traction
Sealing	: V'Ring	V'Ring	Max. compression
Lubrication interval	: 14000 h	17000 h	
Lubricant amount	: 21 g	11 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			
			Page	Revision
			1 / 1	