

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11441772
Catalog # : HT020406NPW22

Frame	: 284/6T	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 20 HP (15 kW)	Temperature rise	: 80 K
Frequency	: 60 Hz	Duty cycle	: Cont.(S1)
Rated voltage	: 230/460 V	Ambient temperature	: -20°C to +40°C
Poles	: 6	Altitude	: 1000 m.a.s.l.
Rated current	: 48.3/24.1 A	Protection degree	: IP55
	: 6.2x(Code G)	Cooling method	: IC411 - TEFC
Rated speed	: 1175 rpm	Mounting	: F-1
Rated torque	: 89.4 ft.lb	Rotation ¹	: Both (CW and CCW)
Insulation class	: F	Noise level ²	: 59.0 dB(A)
Service factor	: 1.25	Starting method	: Direct On Line
Moment of inertia (J)	: 9.16 sq.ft.lb	Approx. weight ³	: 426 lb
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	91.0 90.0 89.3 89.3 90.2 90.2 90.2	91.7 90.3 90.3 90.6 90.2 90.2 91.0	91.7 90.3 90.3 90.8 88.5 89.5 90.2	Max. traction	: 917 lb
Power Factor	0.70 0.66 0.63 0.60 0.76 0.73 0.70	0.80 0.79 0.76 0.73 0.83 0.82 0.80	0.85 0.84 0.83 0.81 0.86 0.86 0.85	Max. compression	: 1338 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	8.5	9.7	10.2	9.7	8.1	8.6	8.7
	P2 (0,5;1,0)	7.1	8.1	8.5	8.1	6.7	7.2	7.2
	P3 (0,25;1,0)	6.9	7.9	8.3	7.9	6.6	7.0	7.0
	P4 (0,9;0,5)	4.6	5.3	5.6	5.3	4.4	4.7	4.7
	P5 (0,5;0,5)	3.2	3.7	3.9	3.7	3.1	3.3	3.3
	P6 (0,5;0,25)	2.3	2.7	2.8	2.7	2.2	2.4	2.4
	P7 (0,25;0,25)	1.7	1.9	2.0	1.9	1.6	1.7	1.7

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6311 C3	6211 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	18 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.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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Checked by				
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