

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 High Efficiency Three-Phase

Product code : 11474987

Frame	: 445/7T	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 250 HP (185 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 286 A	Protection degree	: IP55
L. R. Amperes	: 1830 A	Cooling method	: IC411 - TEFC
LRC	: 6.4x(Code G)	Mounting	: F-1
No load current	: 80.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1781 rpm	Noise level ²	: 73.0 dB(A)
Slip	: 1.06 %	Starting method	: Direct On Line
Rated torque	: 737 ft.lb	Approx. weight ³	: 2281 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 220 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 89.6 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	94.9	95.2	95.0	95.0	95.4	95.4	95.4	95.0	Max. traction	: 3762 lb
	94.9	94.9	95.0	95.0	95.4	95.4	95.4	95.4		
Power Factor	0.54	0.54	0.78	0.78	0.84	0.84	0.85	0.86	Max. compression	: 6042 lb
	0.51	0.48	0.75	0.73	0.83	0.81	0.85	0.85		

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

Losses (%)	P1 (0,9;1,0)	4.8	5.2	4.8	4.8
	P2 (0,5;1,0)	3.8	4.2	3.8	3.8
	P3 (0,25;1,0)	3.5	3.8	3.5	3.5
	P4 (0,9;0,5)	2.3	2.5	2.3	2.3
	P5 (0,5;0,5)	1.5	1.6	1.5	1.5
	P6 (0,5;0,25)	1.0	1.1	1.0	1.0
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6319 C3	6316 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	8000 h	10000 h
Lubricant amount	:	45 g	34 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		Page 1 / 1		
Checked by				
Date	28/03/2024			
			Revision	