

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JP NEMA
Premium Efficiency Three-Phase

Product code : 14428062

Catalog # : 07512ET3E405JP-W22

Frame	: 404/5JP	Locked rotor time	: 30s (cold) 17s (hot)
Output	: 75 HP (55 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 170/84.9 A	Protection degree	: IP55
L. R. Amperes	: 1087/543 A	Cooling method	: IC411 - TEFC
LRC	: 6.4x(Code G)	Mounting	: F-1
No load current	: 60.0/30.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1184 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 1.33 %	Starting method	: Direct On Line
Rated torque	: 333 ft.lb	Approx. weight ³	: 1197 lb
Locked rotor torque	: 229 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 40.2 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	94.0	93.3	94.1	93.5	94.5	94.0	94.5	94.1	Max. traction	: 2047 lb
	93.3	93.3	93.5	93.5	94.0	94.0	94.1	94.1		
	91.4	92.0	91.8	92.4	92.2	92.8	92.4	93.0		
	92.1		92.4		92.8		93.0			
Power Factor	0.49	0.44	0.74	0.66	0.83	0.79	0.86	0.85	Max. compression	: 3245 lb
	0.40	0.38	0.62	0.60	0.75	0.74	0.83	0.81		
	0.55	0.51	0.79	0.76	0.85	0.84	0.87	0.86		
	0.49		0.74		0.83		0.86			

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

Losses (%)	P1 (0,9;1,0)	6.3	6.8	6.8	6.8	9.0	8.2	8.2
	P2 (0,5;1,0)	5.0	5.5	5.5	5.5	7.6	6.8	6.8
	P3 (0,25;1,0)	4.5	4.9	4.9	4.9	7.0	6.3	6.3
	P4 (0,9;0,5)	3.5	3.7	3.7	3.7	4.7	4.4	4.4
	P5 (0,5;0,5)	2.3	2.5	2.5	2.5	3.3	3.0	3.0
	P6 (0,5;0,25)	1.7	1.8	1.8	1.8	2.4	2.2	2.2
	P7 (0,25;0,25)	1.1	1.2	1.2	1.2	1.6	1.5	1.5

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	Lip Seal	Lip Seal
Lubrication interval	:	17000 h	17000 h
Lubricant amount	:	27 g	27 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	30/03/2024			

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Revision