

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Super Premium Efficiency Three-Phase

Product code : 11792477

Catalog # : 10036EG3E405TS-W22

Frame	: 404/5TS	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 100 HP (75 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 222/111 A	Protection degree	: IP55
L. R. Amperes	: 1776/888 A	Cooling method	: IC411 - TEFC
LRC	: 8.0x(Code H)	Mounting	: F-1
No load current	: 64.0/32.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3565 rpm	Noise level ²	: 79.0 dB(A)
Slip	: 0.97 %	Starting method	: Direct On Line
Rated torque	: 147 ft.lb	Approx. weight ³	: 1224 lb
Locked rotor torque	: 290 %		
Breakdown torque	: 320 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 14.3 sq.ft.lb		
Design	: A		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	94.5 94.5	95.4 95.0	95.4 95.0	Max. traction	: 1033 lb
	95.0 95.0	95.4 95.4	95.4 95.4		
Power Factor	0.81 0.85	0.87 0.90	0.89 0.91	Max. compression	: 2257 lb
	0.84 0.81	0.89 0.88	0.90 0.89		

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

Losses (%)	P1 (0,9;1,0)	4.6	5.0	4.6	4.6
	P2 (0,5;1,0)	3.2	3.5	3.2	3.2
	P3 (0,25;1,0)	2.7	3.0	2.7	2.7
	P4 (0,9;0,5)	2.6	2.9	2.6	2.6
	P5 (0,5;0,5)	1.4	1.5	1.4	1.4
	P6 (0,5;0,25)	1.0	1.1	1.0	1.0
	P7 (0,25;0,25)	0.5	0.6	0.5	0.5

		Drive end	Non drive end
Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	4000 h	4000 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	29/03/2024			
			Page	Revision
			1 / 1	