

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11431378
 Catalog # : 07536ST3QIE365TS-W22

Frame	: 364/5TS	Locked rotor time	: 18s (cold) 10s (hot)
Output	: 75 HP (55 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 81.9 A	Protection degree	: IP56
L. R. Amperes	: 541 A	Cooling method	: IC411 - TEFC
LRC	: 6.6x(Code G)	Mounting	: F-1
No load current	: 19.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3550 rpm	Noise level ²	: 79.0 dB(A)
Slip	: 1.39 %	Starting method	: Direct On Line
Rated torque	: 111 ft.lb	Approx. weight ³	: 907 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 11.9 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads		
Efficiency (%)	92.4	91.2	93.6	92.5	93.6	93.7
	91.5	91.8	93.0	93.1	93.7	93.7
	92.4	92.4	93.0	93.0	92.4	93.0
	93.0		93.6		93.0	
Power Factor	0.83	0.75	0.88	0.85	0.90	0.90
	0.72	0.70	0.83	0.82	0.88	0.88
	0.86	0.84	0.90	0.89	0.90	0.90
	0.83		0.88		0.90	
				Max. traction	: 643 lb	
				Max. compression	: 1550 lb	

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

Losses (%)	P1 (0,9;1,0)	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	P2 (0,5;1,0)	4.9	4.9	4.9	4.9	4.9	4.9	4.9
	P3 (0,25;1,0)	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	P4 (0,9;0,5)	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	P5 (0,5;0,5)	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	P6 (0,5;0,25)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6	0.6	0.6	0.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	Inpro/Seal	Inpro/Seal
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			Page	Revision
Date	26/03/2024		1 / 1	