

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency
Three-Phase

Product code : 15459791

Catalog # : 06009ST3HIE405T-W22

Frame : 404/5T
Output : 60 HP (45 kW)
Poles : 8
Frequency : 60 Hz
Rated voltage : 575 V
Rated current : 58.4 A
L. R. Amperes : 380 A
LRC : 6.5x(Code H)
No load current : 24.0 A
Rated speed : 880 rpm
Slip : 2.22 %
Rated torque : 358 ft.lb
Locked rotor torque : 180 %
Breakdown torque : 270 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 40.2 sq.ft.lb
Design : B

Locked rotor time : 23s (cold) 13s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP56
Cooling method : IC411 - TEFC
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 60.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 1146 lb

Output	25%	50%	75%	100%
Efficiency (%)	92.8	93.0	93.0	93.0
Power Factor	0.42	0.68	0.78	0.83

Foundation loads

Max. traction : 2329 lb
Max. compression : 3475 lb

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
7.3	6.4	6.4	3.1	2.3	1.3	1.0

	Drive end	Non drive end
Bearing type	6316 C3	6314 C3
Sealing	Inpro/Seal	Inpro/Seal
Lubrication interval	20000 h	20000 h
Lubricant amount	34 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	26/03/2024			

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Revision