

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium
Efficiency Three-Phase

Product code : 11360154

Catalog # : 02536XT3H284TS

Frame	: 284TS	Locked rotor time	: 59s (cold) 33s (hot)
Output	: 25 HP (18.5 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 22.8 A	Protection degree	: IP55
L. R. Amperes	: 153 A	Cooling method	: IC411 - TEFC
LRC	: 6.7x(Code G)	Mounting	: F-1
No load current	: 5.04 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3545 rpm	Noise level ²	: 75.0 dB(A)
Slip	: 1.53 %	Starting method	: Direct On Line
Rated torque	: 37.0 ft.lb	Approx. weight ³	: 466 lb
Locked rotor torque	: 240 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 2.58 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%
--------	-----	-----	-----	------

Efficiency (%)	91.5	91.7	92.4	92.4
Power Factor	0.58	0.78	0.85	0.88

Foundation loads

Max. traction : 156 lb
Max. compression : 619 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)
7.8	5.9	5.0	3.7	2.1	1.2	0.7

	Drive end	Non drive end
Bearing type	: 6311 2RS C3	: 6211 2RS C3
Sealing	: Oil Seal	: Lip Seal
Lubrication interval	: -	: -
Lubricant amount	: -	: -
Lubricant type	: POLYREA ESTER OIL (WT/ ENS)	

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	28/03/2024			

Page 1 / 2
Revision

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 2	
Date	28/03/2024				