

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11446782

Catalog # : 03036ET3H286TS-W22

Frame : 284/6TS
 Output : 30 HP (22 kW)
 Poles : 2
 Frequency : 60 Hz
 Rated voltage : 575 V
 Rated current : 27.4 A
 L. R. Amperes : 172 A
 LRC : 6.3x(Code G)
 No load current : 7.28 A
 Rated speed : 3545 rpm
 Slip : 1.53 %
 Rated torque : 44.4 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 3.37 sq.ft.lb
 Design : B

Locked rotor time : 27s (cold) 15s (hot)
 Temperature rise : 80 K
 Duty cycle : Cont.(S1)
 Ambient temperature : -20°C to +40°C
 Altitude : 1000 m.a.s.l.
 Protection degree : IP55
 Cooling method : IC411 - TEFC
 Mounting : F-1
 Rotation¹ : Both (CW and CCW)
 Noise level² : 72.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 382 lb

Output 25% 50% 75% 100%

Efficiency (%) 91.6 91.7 91.7 91.7
 Power Factor 0.57 0.80 0.86 0.88

Foundation loads

Max. traction : 293 lb
 Max. compression : 675 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)
8.6	6.7	5.9	4.2	2.5	1.5	0.9

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6311 C3	6211 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	14000 h	17000 h
Lubricant amount	:	18 g	11 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	28/03/2024			
			Page	Revision
			1 / 1	