

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14496678

Catalog # : 03036OT3H284TSC-W40

Frame : 284TSC
 Output : 30 HP (22 kW)
 Poles : 2
 Frequency : 60 Hz
 Rated voltage : 575 V
 Rated current : 28.0 A
 L. R. Amperes : 176 A
 LRC : 6.3x(Code G)
 No load current : 10.0 A
 Rated speed : 3545 rpm
 Slip : 1.53 %
 Rated torque : 44.4 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 260 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 1.59 sq.ft.lb
 Design : B

Locked rotor time : 18s (cold) 10s (hot)
 Temperature rise : 80 K
 Duty cycle : Cont.(S1)
 Ambient temperature : -20°C to +40°C
 Altitude : 1000 m.a.s.l.
 Protection degree : IP23
 Cooling method : IC01 - ODP
 Mounting : F-1
 Rotation¹ : Both (CW and CCW)
 Noise level² : 73.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 312 lb

Output	25%	50%	75%	100%
Efficiency (%)	90.0	90.2	91.7	91.7
Power Factor	0.48	0.73	0.82	0.86

Foundation loads
 Max. traction
 Max. compression

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6311 Z C3	6211 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	20000 h	20000 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		Page 1 / 1		
Checked by				
Date	29/03/2024			
		Revision		