

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase

Product code : 14282775  
Catalog # : 15018OP3GFP444TS-W40

Frame : 444/5TS  
Output : 150 HP (110 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 460 V  
Rated current : 169 A  
L. R. Amperes : 1082 A  
LRC : 6.4x(Code G)  
No load current : 46.5 A  
Rated speed : 1780 rpm  
Slip : 1.11 %  
Rated torque : 443 ft.lb  
Locked rotor torque : 190 %  
Breakdown torque : 200 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 42.3 sq.ft.lb  
Design : B

Locked rotor time : 36s (cold) 20s (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  
Rotation<sup>1</sup> : Both (CW and CCW)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 1285 lb

Output	25%	50%	75%	100%				
Efficiency (%)	94.4	93.6	94.5	93.6	95.0	94.1	95.0	93.9
	94.2	94.0	94.1	94.1	94.5	94.2	94.5	
Power Factor	0.54	0.62	0.77	0.83	0.84	0.87	0.86	0.87
	0.58	0.55	0.81	0.79	0.86	0.85	0.87	0.87

Foundation loads  
Max. traction : 2337 lb  
Max. compression : 3622 lb

	Drive end	Non drive end
Bearing type	6314 C3	6212 Z C3
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	20000 h	20000 h
Lubricant amount	27 g	13 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 Revision		
Checked by				
Date	26/03/2024			