

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14272479

Catalog # : 10036OT3G365TS-W40

Frame : 364/5TS  
 Output : 100 HP (75 kW)  
 Poles : 2  
 Frequency : 60 Hz  
 Rated voltage : 460 V  
 Rated current : 116 A  
 L. R. Amperes : 766 A  
 LRC : 6.6x(Code G)  
 No load current : 29.5 A  
 Rated speed : 3555 rpm  
 Slip : 1.25 %  
 Rated torque : 148 ft.lb  
 Locked rotor torque : 180 %  
 Breakdown torque : 229 %  
 Insulation class : F  
 Service factor : 1.25  
 Moment of inertia (J) : 7.20 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 : IP23  
 Cooling method : IC01 - ODP  
 Mounting : F-1  
 Rotation<sup>1</sup> : Both (CW and CCW)  
 Noise level<sup>2</sup> : 84.0 dB(A)  
 Starting method : Direct On Line  
 Approx. weight<sup>3</sup> : 739 lb

Output	25%		50%		75%		100%	
Efficiency (%)	92.2	88.0	92.4	90.2	93.6	91.9	93.6	94.3
	88.2	88.2	90.3	90.3	92.0	92.0	94.3	94.3
Power Factor	0.55	0.53	0.77	0.74	0.84	0.83	0.87	0.86
	0.47	0.47	0.69	0.70	0.78	0.80	0.84	0.83

Foundation loads  
 Max. traction : 1086 lb  
 Max. compression : 1825 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6212 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	14418 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		
Checked by				
Date	29/03/2024			
			Revision	