

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line : W40 NEMA Premium Efficiency Three-Phase		Product code : 14272522		
		Catalog # : 07536OT3E364TSC-W40		
Frame	: 364/5TSC	Locked rotor time	: 34s (cold) 19s (hot)	
Output	: 75 HP (55 kW)	Temperature rise	: 80 K	
Poles	: 2	Duty cycle	: Cont.(S1)	
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C	
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.	
Rated current	: 170/84.8 A	Protection degree	: IP23	
L. R. Amperes	: 1119/560 A	Cooling method	: IC01 - ODP	
LRC	: 6.6x(Code G)	Mounting	: F-1	
No load current	: 43.0/21.5 A	Rotation ¹	: Both (CW and CCW)	
Rated speed	: 3555 rpm	Noise level ²	: 84.0 dB(A)	
Slip	: 1.25 %	Starting method	: Direct On Line	
Rated torque	: 111 ft.lb	Approx. weight ³	: 749 lb	
Locked rotor torque	: 200 %			
Breakdown torque	: 250 %			
Insulation class	: F			
Service factor	: 1.25			
Moment of inertia (J)	: 6.40 sq.ft.lb			
Design	: B			
Output	25%	50%	75%	100%
Efficiency (%)	91.0	90.5	91.7	91.7
	93.0	92.9	93.6	94.0
	90.2	89.7	91.4	91.0
	92.8	92.7	94.0	94.0
Power Factor	0.56	0.56	0.77	0.78
	0.84	0.85	0.87	0.88
	0.51	0.47	0.73	0.69
	0.83	0.80	0.87	0.85
Foundation loads		Max. traction : 645 lb		
		Max. compression : 1394 lb		
Bearing type	:	<u>Drive end</u>	<u>Non drive end</u>	
Sealing	:	6314 C3	6212 Z C3	
Lubrication interval	:	Without Bearing Seal	Without Bearing Seal	
Lubricant amount	:	14418 h	20000 h	
Lubricant type	:	27 g	13 g	
		Mobil Polyrex EM		
Notes:				
This revision replaces and cancel the previous one, which must be eliminated.		These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
(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.				
Rev.	Changes Summary		Performed	Checked
Performed by				
Checked by			Page	Revision
Date	28/03/2024		1 / 1	