

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : W40 NEMA Premium Efficiency Three-Phase		Product code : 14497419			
Frame : 324TS Output : 50 HP (37 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 575 V Rated current : 47.6 A L. R. Amperes : 300 A LRC : 6.3x(Code G) No load current : 15.6 A Rated speed : 3555 rpm Slip : 1.25 % Rated torque : 10.2 kgfm Locked rotor torque : 200 % Breakdown torque : 220 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.1272 kgm <sup>2</sup> Design : B	Locked rotor time : 25s (cold) 14s (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> : 75.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 192 kg				
Output	25%	50%	75%	100%	Foundation loads Max. traction Max. compression
Efficiency (%)	91.5	91.7	93.0	93.0	
Power Factor	0.48	0.72	0.81	0.84	
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6312 Z C3	6211 Z C3		
Sealing	:	Without Bearing Seal	Without Bearing Seal		
Lubrication interval	:	19658 h	20000 h		
Lubricant amount	:	21 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
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Date	22/10/2023			1 / 2	

# LOAD PERFORMANCE CURVE

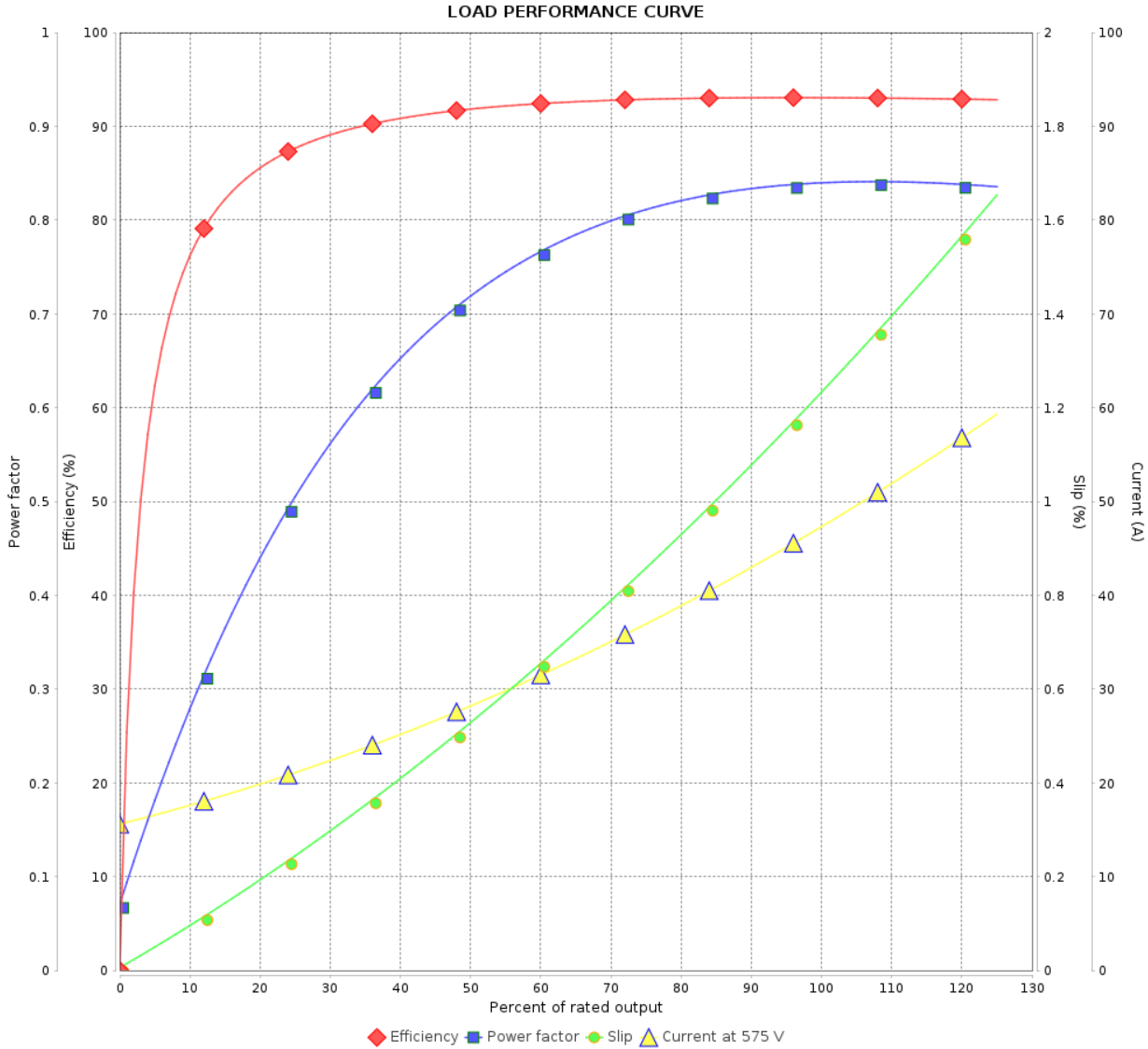
Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14497419



Performance : 575 V 60 Hz 2P

Rated current : 47.6 A  
 LRC : 6.3  
 Rated torque : 10.2 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 220 %  
 Rated speed : 3555 rpm

Moment of inertia (J) : 0.1272 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

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