

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W40 NEMA Premium Efficiency Three-Phase		Product code : 14496910				
Frame : 324TC Output : 40 HP (30 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 575 V Rated current : 38.1 A L. R. Amperes : 236 A LRC : 6.2x(Code G) No load current : 14.8 A Rated speed : 1775 rpm Slip : 1.39 % Rated torque : 16.4 kgfm Locked rotor torque : 200 % Breakdown torque : 240 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.2397 kgm <sup>2</sup> 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> : 66.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 210 kg					
Output	25%	50%	75%	100%	Foundation loads Max. traction Max. compression	
Efficiency (%)	93.5	93.6	94.1	94.1		
Power Factor	0.44	0.70	0.80	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	:	20000 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
Performed by						
Checked by					Page	Revision
Date	22/10/2023				1 / 2	

# LOAD PERFORMANCE CURVE

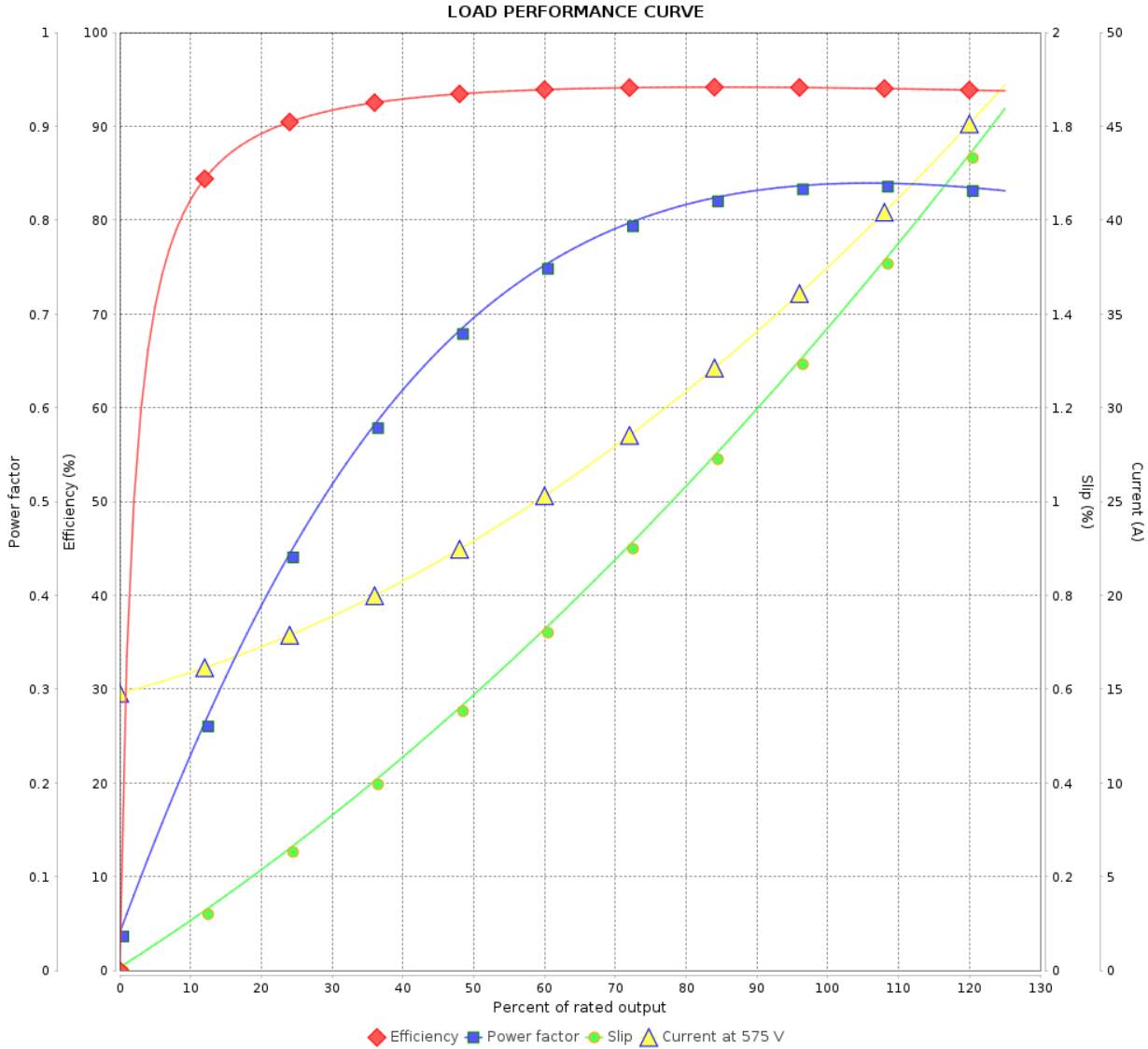
Three Phase Induction Motor - Squirrel Cage



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

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14496910



Performance : 575 V 60 Hz 4P

Rated current : 38.1 A  
 LRC : 6.2  
 Rated torque : 16.4 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 240 %  
 Rated speed : 1775 rpm

Moment of inertia (J) : 0.2397 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
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