

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : W40 NEMA Premium Efficiency Three-Phase		Product code : 14429570			
Frame : 404/5T Output : 60 HP (45 kW) Poles : 6 Frequency : 60 Hz Rated voltage : 575 V Rated current : 56.2 A L. R. Amperes : 377 A LRC : 6.7x(Code G) No load current : 20.0 A Rated speed : 1185 rpm Slip : 1.25 % Rated torque : 36.7 kgfm Locked rotor torque : 240 % Breakdown torque : 250 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 1.24 kgm <sup>2</sup> Design : B	Locked rotor time : 28s (cold) 16s (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> : 68.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 423 kg				
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	91.7	94.5	94.5	Max. traction : 692 kgf	
Power Factor	0.73	0.82	0.85	Max. compression : 1115 kgf	
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6316 C3	6212 Z C3		
Sealing	:	Without Bearing Seal	Without Bearing Seal		
Lubrication interval	:	20000 h	20000 h		
Lubricant amount	:	34 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					
Checked by				Page	Revision
Date	15/01/2024			1 / 2	

# LOAD PERFORMANCE CURVE

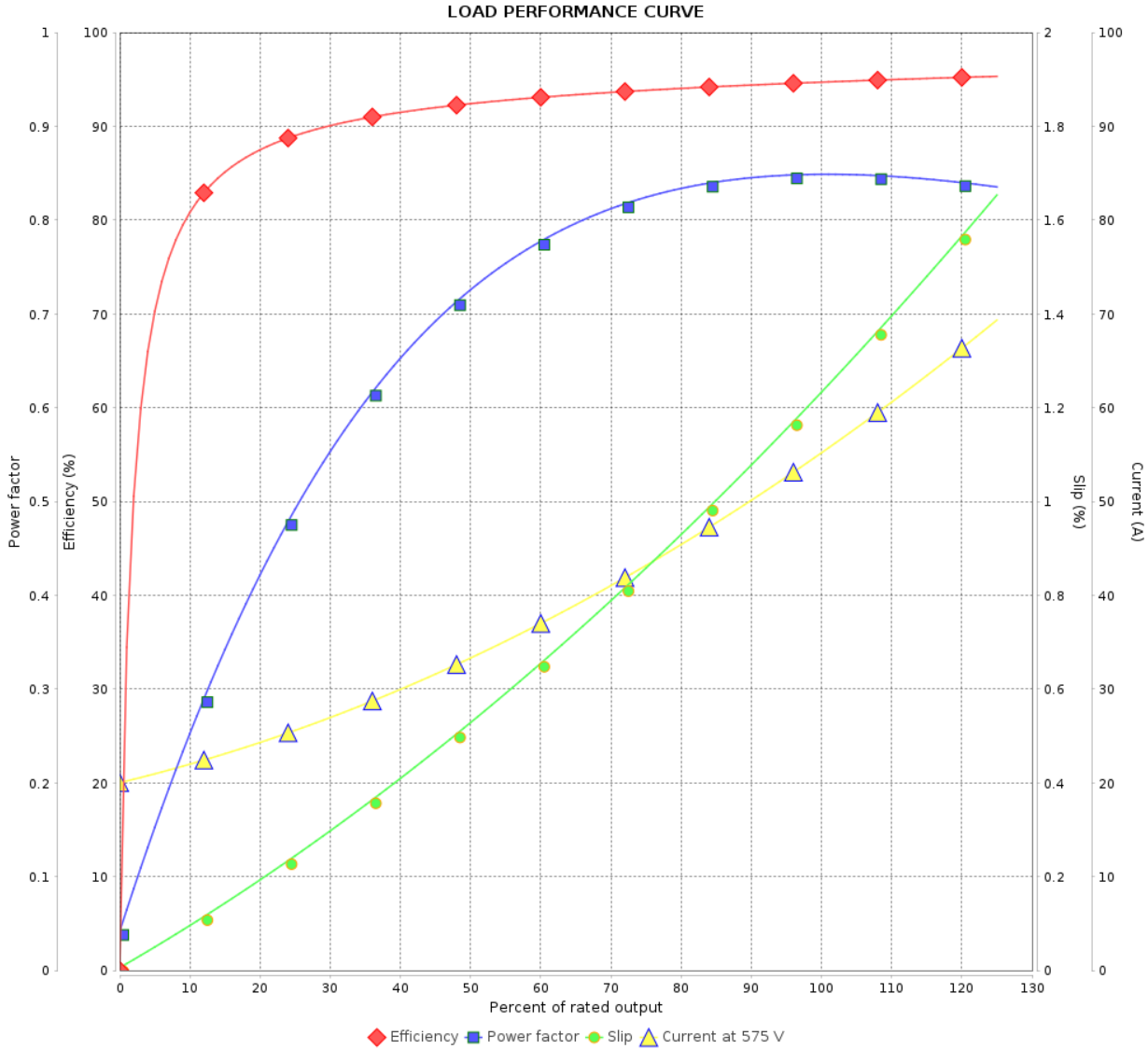
Three Phase Induction Motor - Squirrel Cage



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

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14429570



Performance : 575 V 60 Hz 6P

Rated current	: 56.2 A	Moment of inertia (J)	: 1.24 kgm <sup>2</sup>
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 36.7 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1185 rpm	Design	: B

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