

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W40 NEMA Premium Efficiency Three-Phase			Product code : 14272425			
Frame	: 444/5TS		Locked rotor time	: 37s (cold) 21s (hot)		
Output	: 200 HP (150 kW)		Temperature rise	: 80 K		
Poles	: 2		Duty cycle	: Cont.(S1)		
Frequency	: 60 Hz		Ambient temperature	: -20°C to +40°C		
Rated voltage	: 575 V		Altitude	: 1000 m.a.s.l.		
Rated current	: 180 A		Protection degree	: IP23		
L. R. Amperes	: 1170 A		Cooling method	: IC01 - ODP		
LRC	: 6.5x(Code G)		Mounting	: F-1		
No load current	: 53.6 A		Rotation <sup>1</sup>	: Both (CW and CCW)		
Rated speed	: 3570 rpm		Noise level <sup>2</sup>	: 85.0 dB(A)		
Slip	: 0.83 %		Starting method	: Direct On Line		
Rated torque	: 40.7 kgfm		Approx. weight <sup>3</sup>	: 575 kg		
Locked rotor torque	: 140 %					
Breakdown torque	: 229 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 1.00 kgm <sup>2</sup>					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	92.4	93.0	94.5	95.0	Max. traction : 530 kgf	
Power Factor	0.54	0.79	0.86	0.88	Max. compression : 1105 kgf	
			<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
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# LOAD PERFORMANCE CURVE

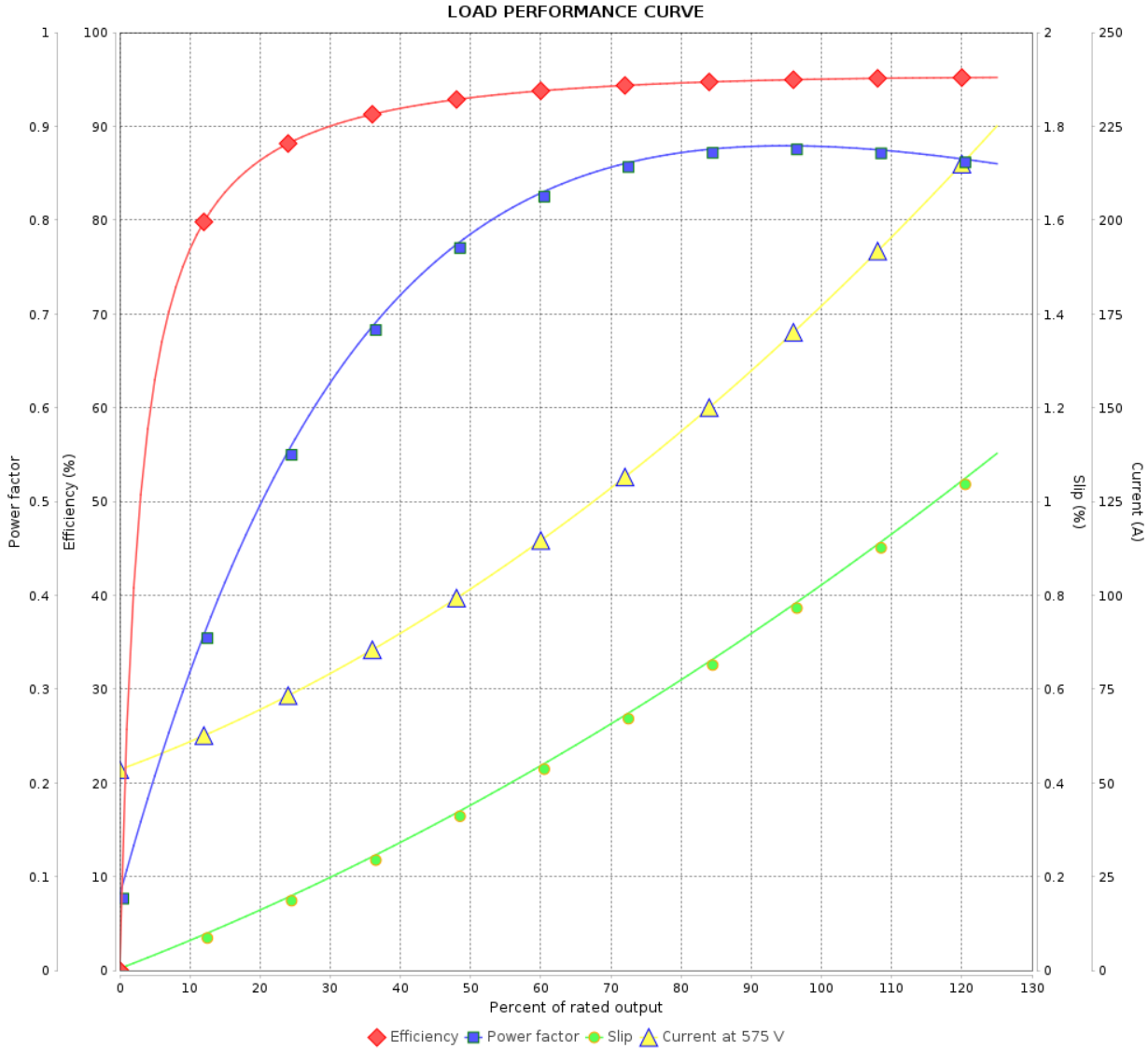
Three Phase Induction Motor - Squirrel Cage



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

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14272425



Performance : 575 V 60 Hz 2P

Rated current	: 180 A	Moment of inertia (J)	: 1.00 kgm <sup>2</sup>
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 40.7 kgfm	Insulation class	: F
Locked rotor torque	: 140 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 3570 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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Date	15/01/2024			