

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase		Product code : 14893765		
Frame	: 404/5LP		Locked rotor time	: 23s (cold) 13s (hot)		
Output	: 100 HP (75 kW)		Temperature rise	: 80 K		
Poles	: 4		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	: 90.7 A		Protection degree	: IP55		
L. R. Amperes	: 653 A		Cooling method	: IC411 - TEFC		
LRC	: 7.2x(Code H)		Mounting	: W-6		
No load current	: 34.4 A		Rotation ¹	: Both (CW and CCW)		
Rated speed	: 1780 rpm		Noise level ²	: 75.0 dB(A)		
Slip	: 1.11 %		Starting method	: VFD		
Rated torque	: 40.8 kgfm		Approx. weight ³	: 554 kg		
Locked rotor torque	: 270 %					
Breakdown torque	: 300 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 1.11 kgm ²					
Design	: A					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	94.5	95.0	95.4	Max. traction	
Power Factor	0.00	0.72	0.82	0.87	Max. compression	
			<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6314 C3			7315BECB	
Sealing	:	Oil Seal			Lip Seal	
Lubrication interval	:	4895 h			3268 h	
Lubricant amount	:	27 g			30 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.			
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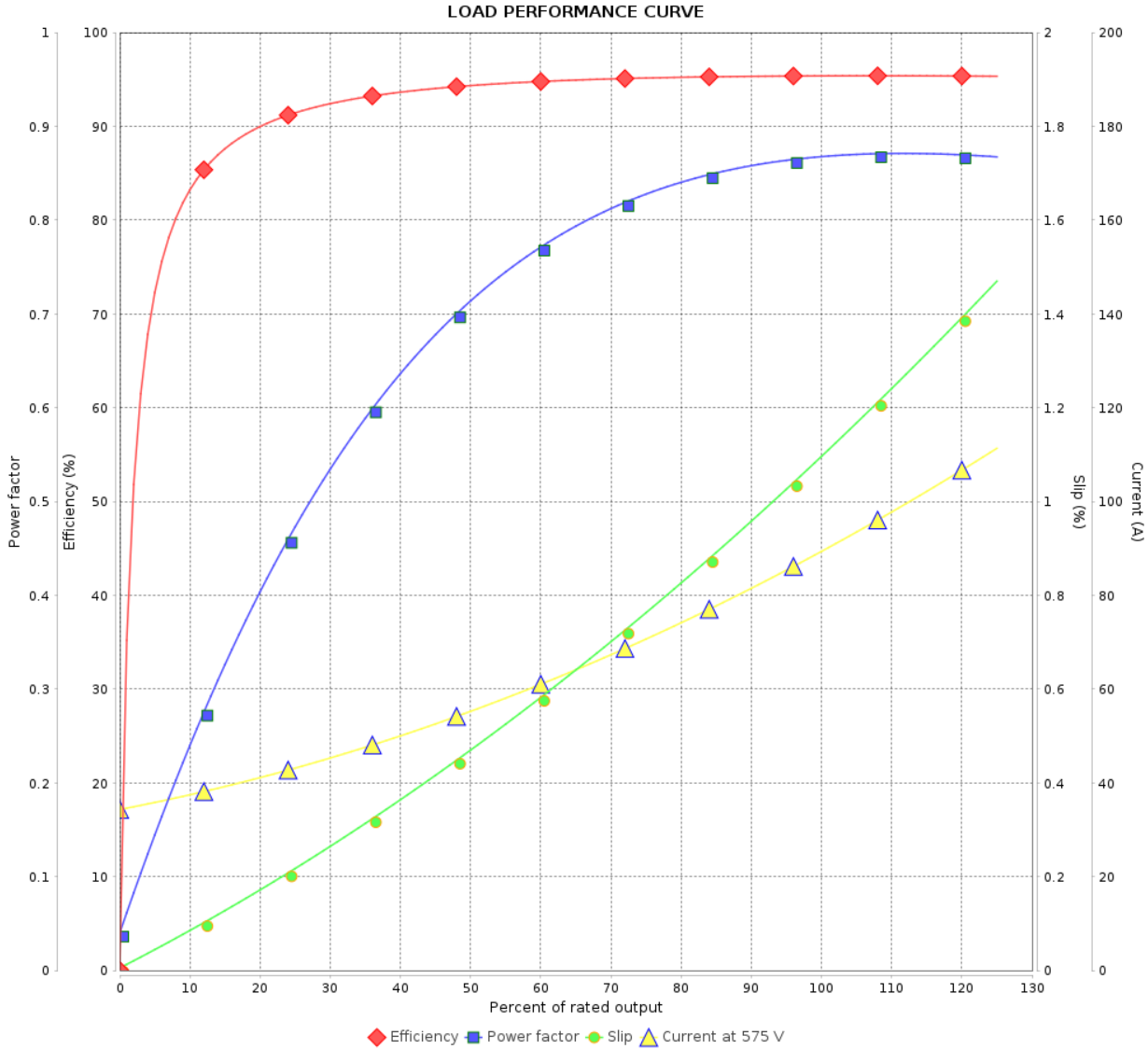
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W21 In Line Extra Thrust NEMA Premium Product code : 14893765
 Efficiency Three-Phase



Performance : 575 V 60 Hz 4P

Rated current	: 90.7 A	Moment of inertia (J)	: 1.11 kgm ²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 40.8 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: A

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