

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W21 In Line Extra Thrust Premium Efficiency Three-Phase			Product code : 12465079			
Frame	: 444/5LP		Locked rotor time	: 32s (cold) 18s (hot)		
Output	: 125 HP		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	: 110 A		Protection degree	: IP55		
L. R. Amperes	: 704 A		Cooling method	: IC411 - TEFC		
LRC	: 6.4x(Code G)		Mounting	: W-6		
No load current	: 37.0 A		Rotation <sup>1</sup>	: Both (CW and CCW)		
Rated speed	: 1785 rpm		Noise level <sup>2</sup>	: 76.0 dB(A)		
Slip	: 0.83 %		Starting method	: Direct On Line		
Rated torque	: 50.8 kgfm		Approx. weight <sup>3</sup>	: 833 kg		
Locked rotor torque	: 200 %					
Breakdown torque	: 220 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 2.41 kgm <sup>2</sup>					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	95.0	95.4	95.4	Max. traction	
Power Factor	0.00	0.76	0.83	0.86	Max. compression	
			<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6314	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.			
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/01/2024				1 / 2	

# LOAD PERFORMANCE CURVE

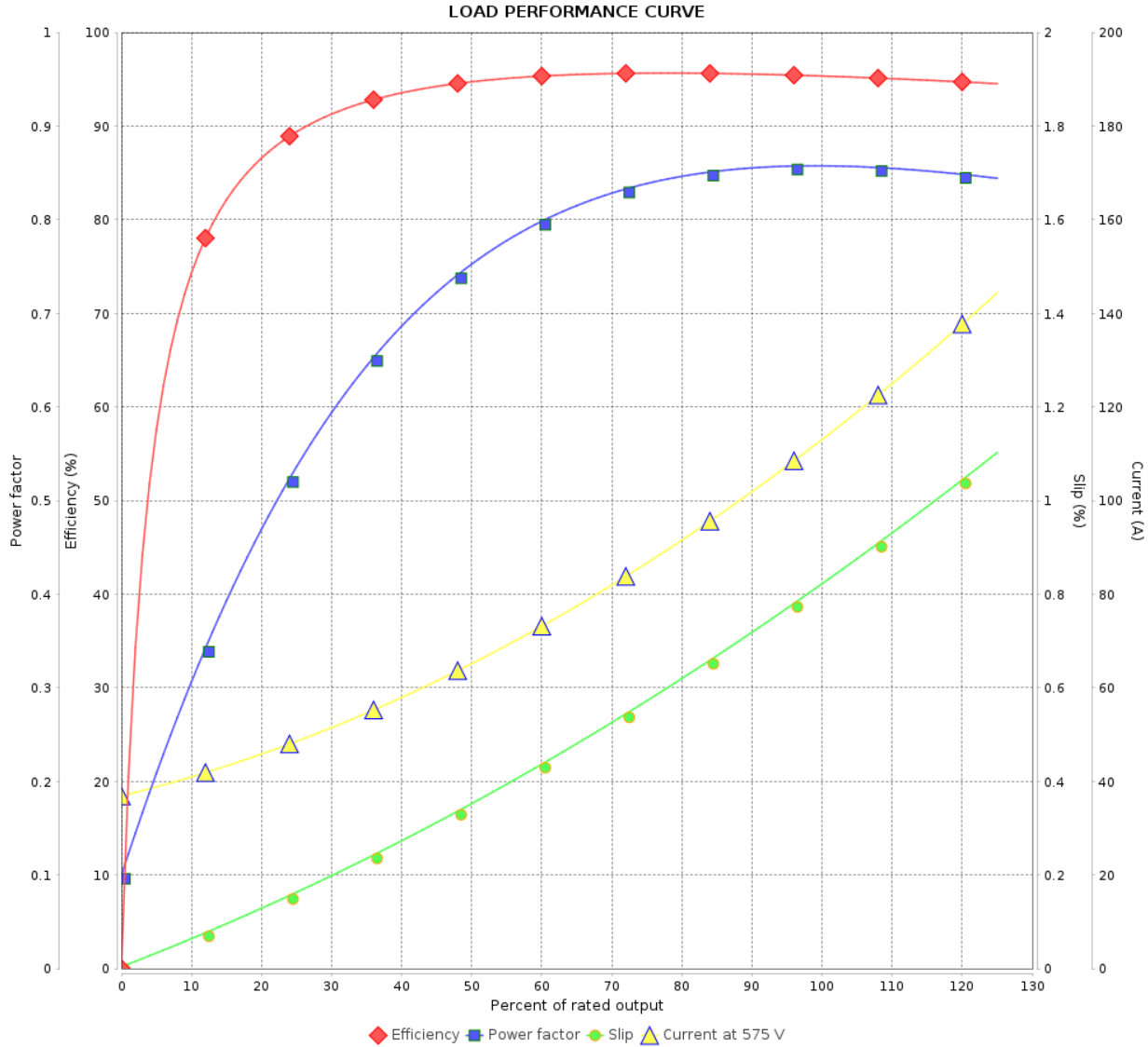
Three Phase Induction Motor - Squirrel Cage



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

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

Product code : 12465079



Performance : 575 V 60 Hz 4P

Rated current : 110 A	Moment of inertia (J) : 2.41 kgm <sup>2</sup>
LRC : 6.4	Duty cycle : Cont.(S1)
Rated torque : 50.8 kgfm	Insulation class : F
Locked rotor torque : 200 %	Service factor : 1.15
Breakdown torque : 220 %	Temperature rise : 80 K
Rated speed : 1785 rpm	Design : B

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