

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 12447062			
Frame	: 254/6T			Locked rotor time	: 36s (cold) 20s (hot)	
Output	: 15 HP (11 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	: 13.8 A			Protection degree	: IP55	
L. R. Amperes	: 92.4 A			Cooling method	: IC411 - TEFC	
LRC	: 6.7x(Code G)			Mounting	: F-1	
No load current	: 4.24 A			Rotation <sup>1</sup>	: Both (CW and CCW)	
Rated speed	: 3532 rpm			Noise level <sup>2</sup>	: 72.0 dB(A)	
Slip	: 1.89 %			Starting method	: Direct On Line	
Rated torque	: 3.08 kgfm			Approx. weight <sup>3</sup>	: 115 kg	
Locked rotor torque	: 220 %					
Breakdown torque	: 270 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.0530 kgm <sup>2</sup>					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	89.5	91.0	91.0	Max. traction	: 73 kgf
Power Factor	0.00	0.77	0.85	0.88	Max. compression	: 188 kgf
Losses at normative operating points (speed;torque), in percentage of rated output power						
P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
9.1	6.6	6.2	5.1	2.8	1.9	1.1
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6309 C3		6209 C3		
Sealing	:	V'Ring		V'Ring		
Lubrication interval	:	19000 h		20000 h		
Lubricant amount	:	13 g		9 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

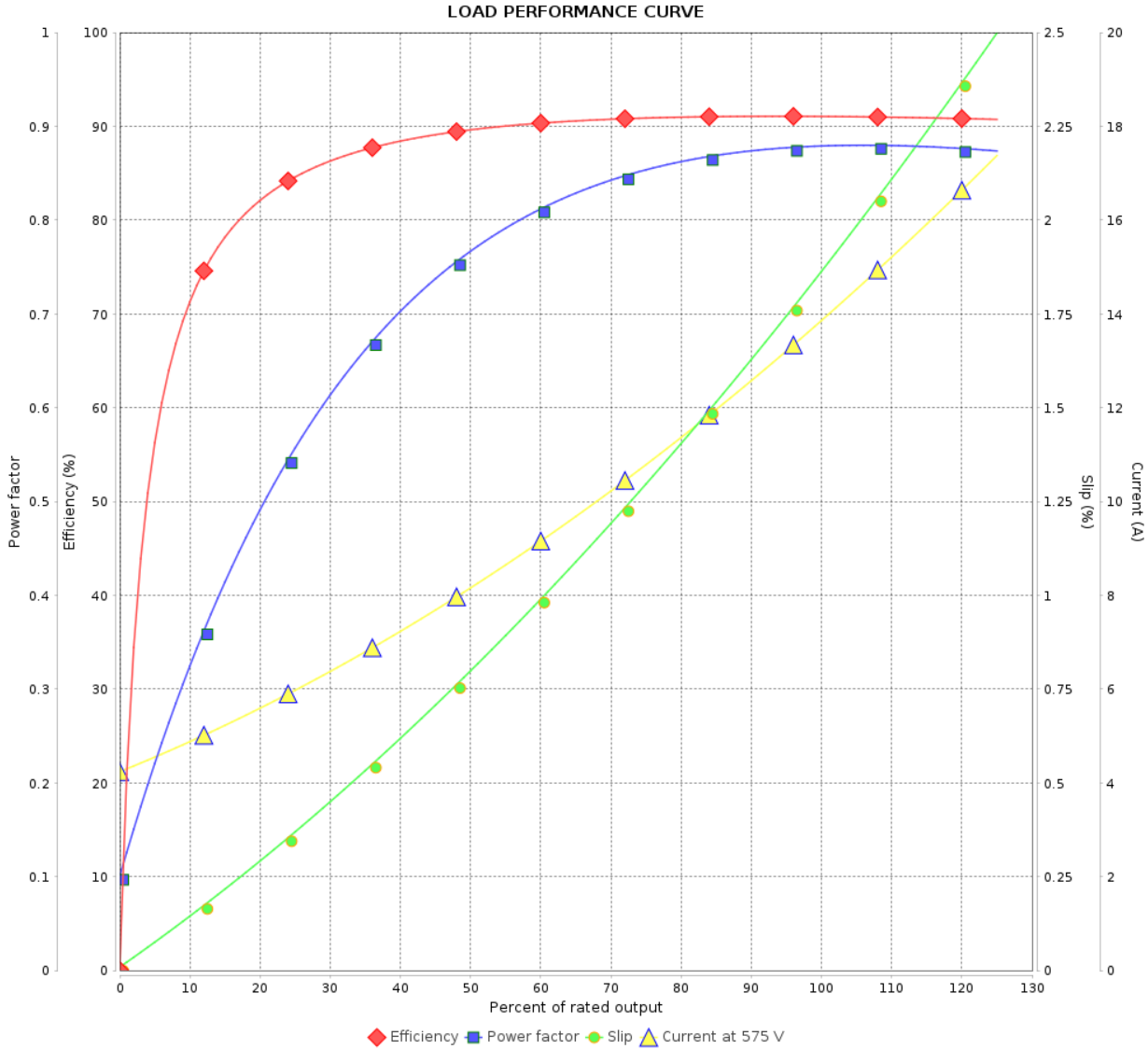
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12447062



Performance : 575 V 60 Hz 2P

Rated current	: 13.8 A	Moment of inertia (J)	: 0.0530 kgm <sup>2</sup>
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 3.08 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 3532 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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Date	01/02/2024			