

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12049058			
Frame	: 445/7TS	Locked rotor time	: 32s (cold) 18s (hot)			
Output	: 250 HP (185 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	: 215 A	Protection degree	: IP55			
L. R. Amperes	: 1442 A	Cooling method	: IC411 - TEFC			
LRC	: 6.7x(Code G)	Mounting	: F-1			
No load current	: 48.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)			
Rated speed	: 3573 rpm	Noise level <sup>2</sup>	: 81.0 dB(A)			
Slip	: 0.75 %	Starting method	: Direct On Line			
Rated torque	: 50.8 kgfm	Approx. weight <sup>3</sup>	: 1040 kg			
Locked rotor torque	: 210 %					
Breakdown torque	: 240 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 2.12 kgm <sup>2</sup>					
Design	: B					
Output	50%	75%	100%			
Efficiency (%)	95.4	95.8	95.8			
Power Factor	0.84	0.89	0.90			
Foundation loads		Max. traction : 545 kgf				
		Max. compression : 1586 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)
4.8	3.6	3.0	2.8	1.7	1.2	0.7
		<u>Drive end</u>			<u>Non drive end</u>	
Bearing type	:	6314 C3			6314 C3	
Sealing	:	WSeal			WSeal	
Lubrication interval	:	4000 h			4000 h	
Lubricant amount	:	27 g			27 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

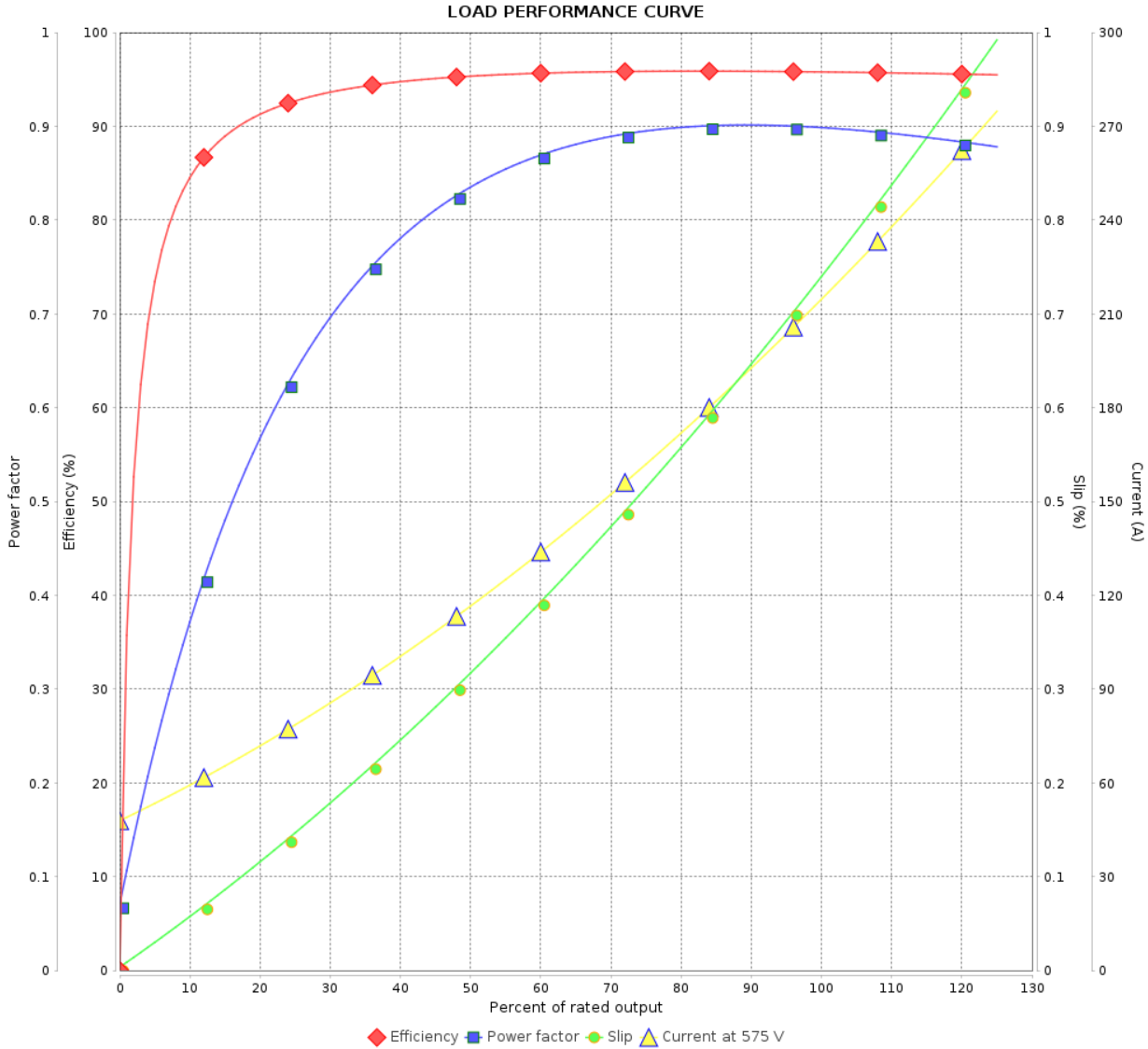
Three Phase Induction Motor - Squirrel Cage



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

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12049058



Performance : 575 V 60 Hz 2P

Rated current : 215 A  
 LRC : 6.7  
 Rated torque : 50.8 kgfm  
 Locked rotor torque : 210 %  
 Breakdown torque : 240 %  
 Rated speed : 3573 rpm

Moment of inertia (J) : 2.12 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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