

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 Close Coupled Pump JP NEMA Premium Efficiency Three-Phase			Product code : 12712077			
Frame	: 254/6JP			Locked rotor time	: 54s (cold) 30s (hot)	
Output	: 20 HP (15 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	: 19.3 A			Protection degree	: IP55	
L. R. Amperes	: 133 A			Cooling method	: IC411 - TEFC	
LRC	: 6.9x(Code H)			Mounting	: F-1	
No load current	: 7.68 A			Rotation <sup>1</sup>	: Both (CW and CCW)	
Rated speed	: 1770 rpm			Noise level <sup>2</sup>	: 64.0 dB(A)	
Slip	: 1.67 %			Starting method	: Direct On Line	
Rated torque	: 8.20 kgfm			Approx. weight <sup>3</sup>	: 153 kg	
Locked rotor torque	: 240 %					
Breakdown torque	: 260 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.1305 kgm <sup>2</sup>					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	91.0	91.7	92.4	93.0	Max. traction	: 259 kgf
Power Factor	0.43	0.68	0.79	0.84	Max. compression	: 412 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)
7.5	6.4	5.8	3.6	2.5	1.6	1.1
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6309 C3		6209 C3		
Sealing	:	V'Ring		V'Ring		
Lubrication interval	:	20000 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.		
Rev.	Changes Summary			Performed	Checked	Date
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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

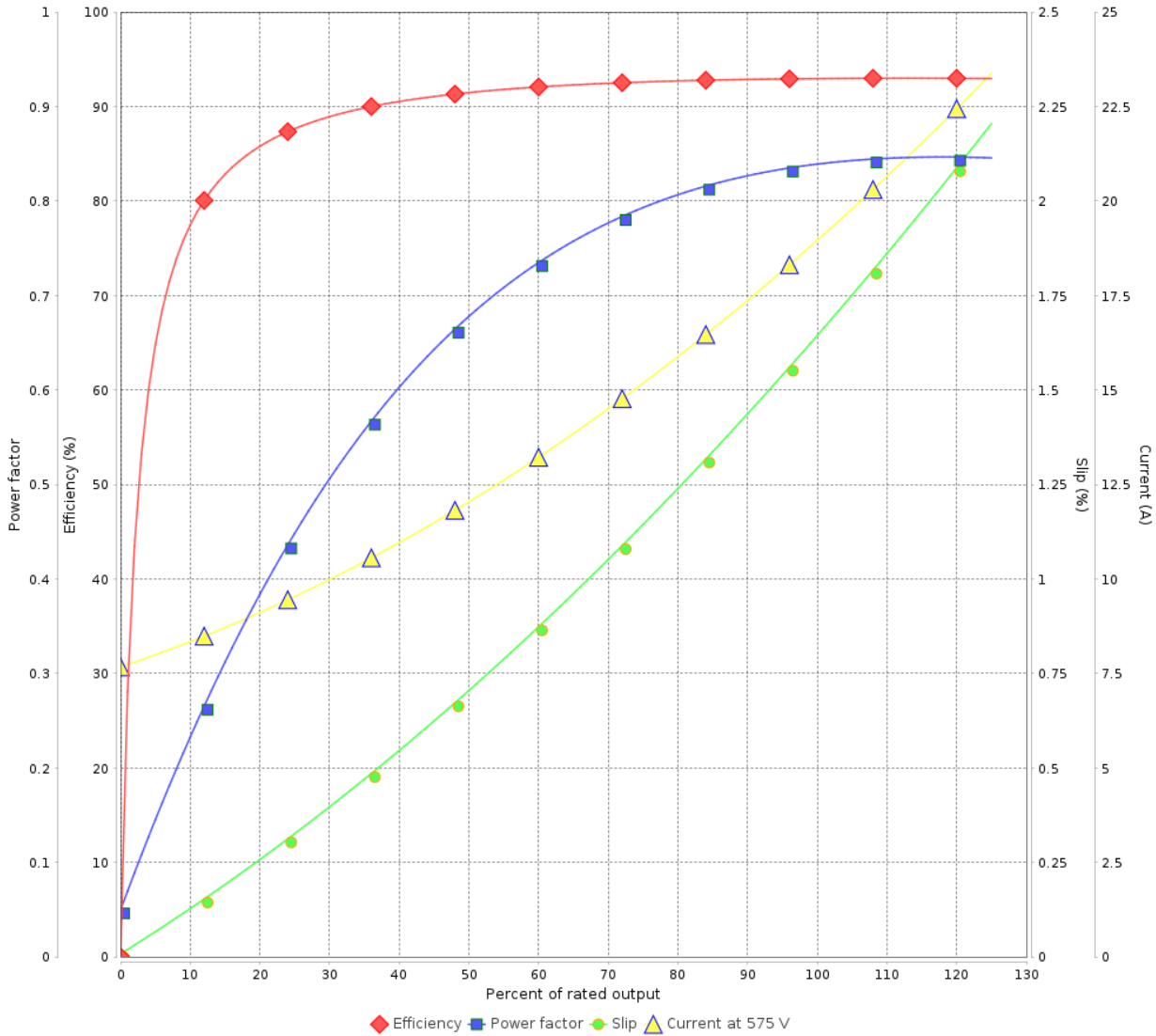


Customer :

Product line : W22 Close Coupled Pump JP NEMA  
Premium Efficiency Three-Phase

Product code : 12712077

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 4P

Rated current : 19.3 A  
LRC : 6.9  
Rated torque : 8.20 kgfm  
Locked rotor torque : 240 %  
Breakdown torque : 260 %  
Rated speed : 1770 rpm

Moment of inertia (J) : 0.1305 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

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