

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 13881420			
Frame	:	586/7T	Locked rotor time	:	48s (cold) 27s (hot)	
Output	:	450 HP (330 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	:	406 A	Protection degree	:	IP55	
L. R. Amperes	:	2555 A	Cooling method	:	IC411 - TEFC	
LRC	:	6.3x(Code G)	Mounting	:	F-1	
No load current	:	124 A	Rotation ¹	:	Both (CW and CCW)	
Rated speed	:	1790 rpm	Noise level ²	:	81.0 dB(A)	
Slip	:	0.56 %	Starting method	:	Direct On Line	
Rated torque	:	182 kgfm	Approx. weight ³	:	1735 kg	
Locked rotor torque	:	220 %				
Breakdown torque	:	229 %				
Insulation class	:	F				
Service factor	:	1.15				
Moment of inertia (J)	:	8.99 kgm ²				
Design	:	B				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	95.8	96.2	96.2	Max. traction	:	2005 kgf
Power Factor	0.77	0.83	0.85	Max. compression	:	3740 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)
4.4	3.3	2.6	2.7	1.7	1.3	0.7
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	NU-322 C3		6319 C3		
Sealing	:	Taconite Labyrinth		Taconite Labyrinth		
Lubrication interval	:	4000 h		8000 h		
Lubricant amount	:	60 g		45 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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Space heater information

Voltage: 110-127/200-240 V

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LOAD PERFORMANCE CURVE

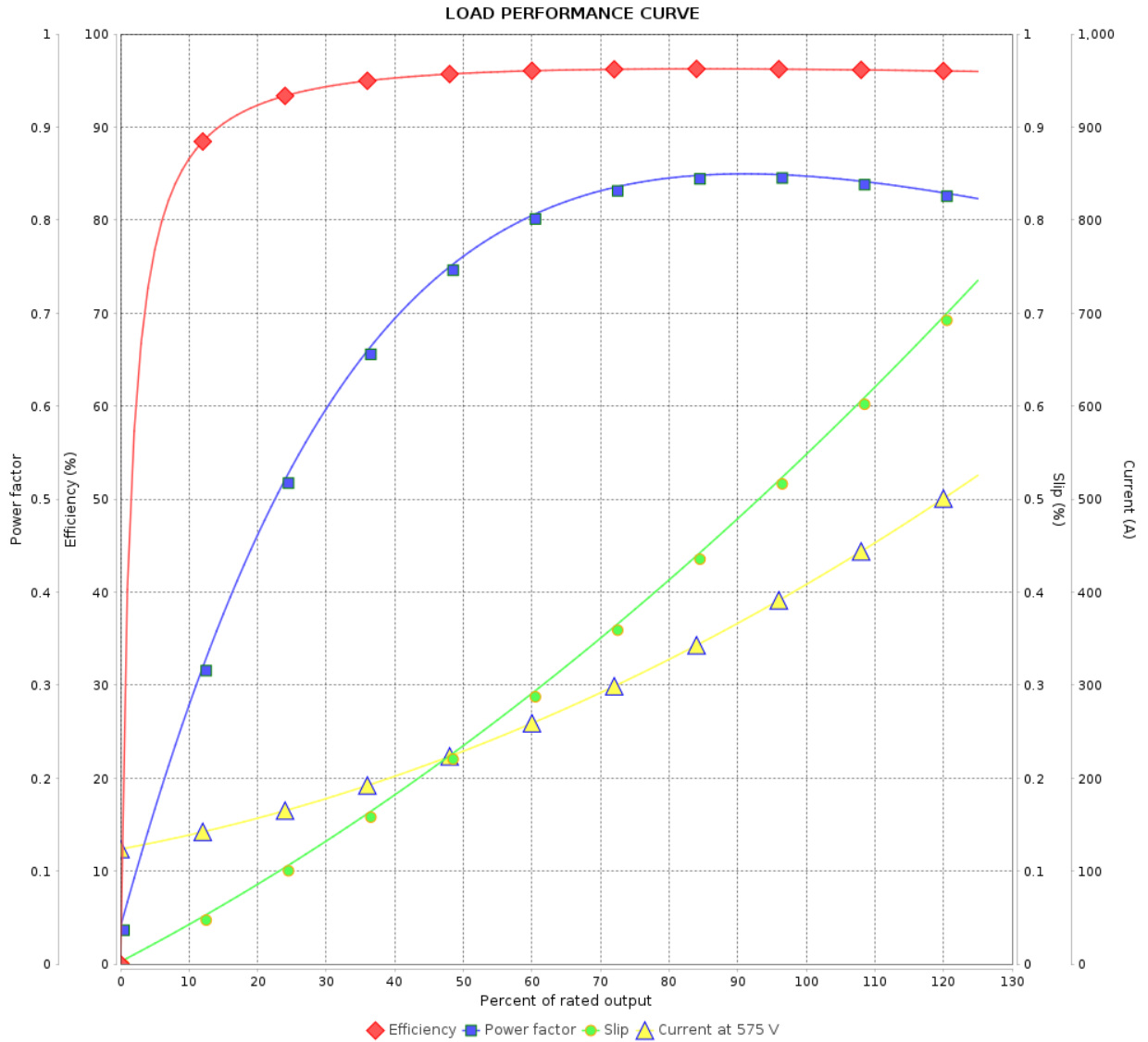
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13881420



Performance : 575 V 60 Hz 4P

Rated current : 406 A
 LRC : 6.3
 Rated torque : 182 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 229 %
 Rated speed : 1790 rpm

Moment of inertia (J) : 8.99 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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