

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 14882459

Frame	: 586/7T	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 500 HP (370 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	: 454 A	Protection degree	: IP55
L. R. Amperes	: 2954 A	Cooling method	: IC411 - TEFC
LRC	: 6.5x(Code G)	Mounting	: F-1
No load current	: 148 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	: 203 kgfm	Approx. weight ³	: 1851 kg
Locked rotor torque	: 229 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 10.8 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	95.8	96.2	96.2	Max. traction	: 2544 kgf
Power Factor	0.75	0.83	0.85	Max. compression	: 4395 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)
4.6	3.4	2.6	2.9	1.8	1.4	0.8

	Drive end	Non drive end
Bearing type	: 6322 C3	: 6319 C3
Sealing	: Taconite Labyrinth	: Taconite Labyrinth
Lubrication interval	: 6000 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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		1 / 3		
Date	13/01/2024			

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Space heater information

Voltage: 110 - 127 V

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	13/01/2024		2 / 3	

LOAD PERFORMANCE CURVE

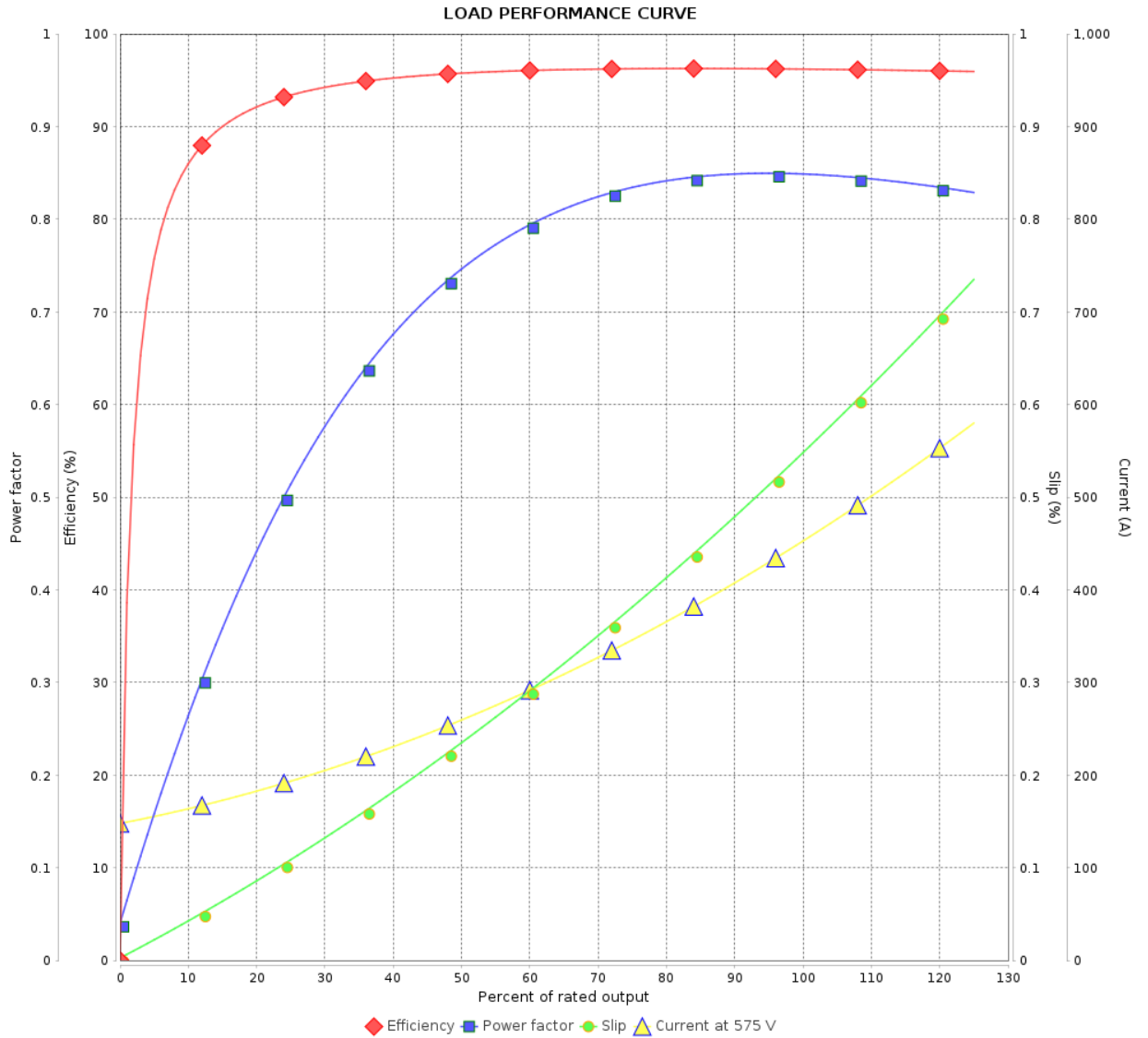
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Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14882459



Performance : 575 V 60 Hz 4P

Rated current : 454 A
 LRC : 6.5
 Rated torque : 203 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 250 %
 Rated speed : 1790 rpm

Moment of inertia (J) : 10.8 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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Performed by			Page	Revision
Checked by				
Date				