

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase		Product code :		12811472
Frame	:	324/6TC		Locked rotor time	:	36s (cold) 20s (hot)
Output	:	40 HP (30 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	:	37.7 A		Protection degree	:	IP55
L. R. Amperes	:	230 A		Cooling method	:	IC411 - TEFC
LRC	:	6.1x(Code G)		Mounting	:	F-1
No load current	:	13.6 A		Rotation <sup>1</sup>	:	Both (CW and CCW)
Rated speed	:	1775 rpm		Noise level <sup>2</sup>	:	66.0 dB(A)
Slip	:	1.39 %		Starting method	:	Direct On Line
Rated torque	:	16.4 kgfm		Approx. weight <sup>3</sup>	:	270 kg
Locked rotor torque	:	229 %				
Breakdown torque	:	240 %				
Insulation class	:	F				
Service factor	:	1.25				
Moment of inertia (J)	:	0.3861 kgm <sup>2</sup>				
Design	:	B				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	93.6	94.1	94.1	Max. traction	:	359 kgf
Power Factor	0.72	0.80	0.85	Max. compression	:	629 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)
6.1	5.1	4.9	2.8	1.9	1.2	0.8
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6312 C3		6212 C3		
Sealing	:	Taconite Labyrinth		Taconite Labyrinth		
Lubrication interval	:	20000 h		20000 h		
Lubricant amount	:	21 g		13 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

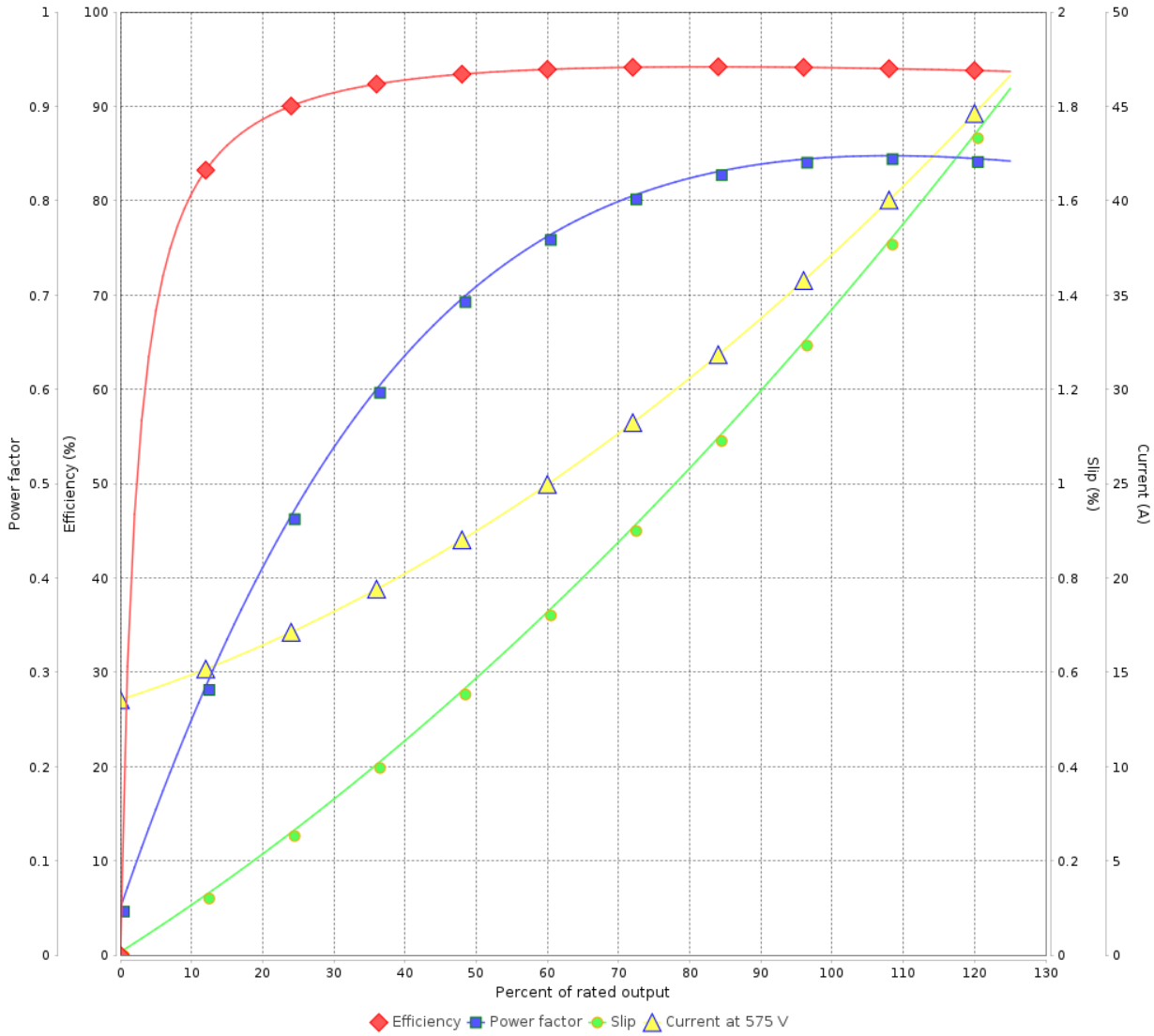
Three Phase Induction Motor - Squirrel Cage



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

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase      Product code : 12811472

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 4P

Rated current : 37.7 A  
 LRC : 6.1  
 Rated torque : 16.4 kgfm  
 Locked rotor torque : 229 %  
 Breakdown torque : 240 %  
 Rated speed : 1775 rpm

Moment of inertia (J) : 0.3861 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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Checked by				
Date	13/01/2024			