

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase		Product code :		12810977
Frame	:	254/6TC		Locked rotor time	:	45s (cold) 25s (hot)
Output	:	15 HP (11 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	:	13.8 A		Protection degree	:	IP55
L. R. Amperes	:	92.2 A		Cooling method	:	IC411 - TEFC
LRC	:	6.7x(Code G)		Mounting	:	F-1
No load current	:	4.24 A		Rotation <sup>1</sup>	:	Both (CW and CCW)
Rated speed	:	3530 rpm		Noise level <sup>2</sup>	:	72.0 dB(A)
Slip	:	1.94 %		Starting method	:	Direct On Line
Rated torque	:	3.08 kgfm		Approx. weight <sup>3</sup>	:	120 kg
Locked rotor torque	:	220 %				
Breakdown torque	:	270 %				
Insulation class	:	F				
Service factor	:	1.25				
Moment of inertia (J)	:	0.0530 kgm <sup>2</sup>				
Design	:	B				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	89.5	91.0	91.0	Max. traction	:	71 kgf
Power Factor	0.77	0.85	0.88	Max. compression	:	191 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)
9.4	7.5	6.8	4.8	2.8	1.8	1.1
Bearing type			<u>Drive end</u>	<u>Non drive end</u>		
:			6309 C3	6209 C3		
Sealing			Taconite Labyrinth	Taconite Labyrinth		
Lubrication interval			19000 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

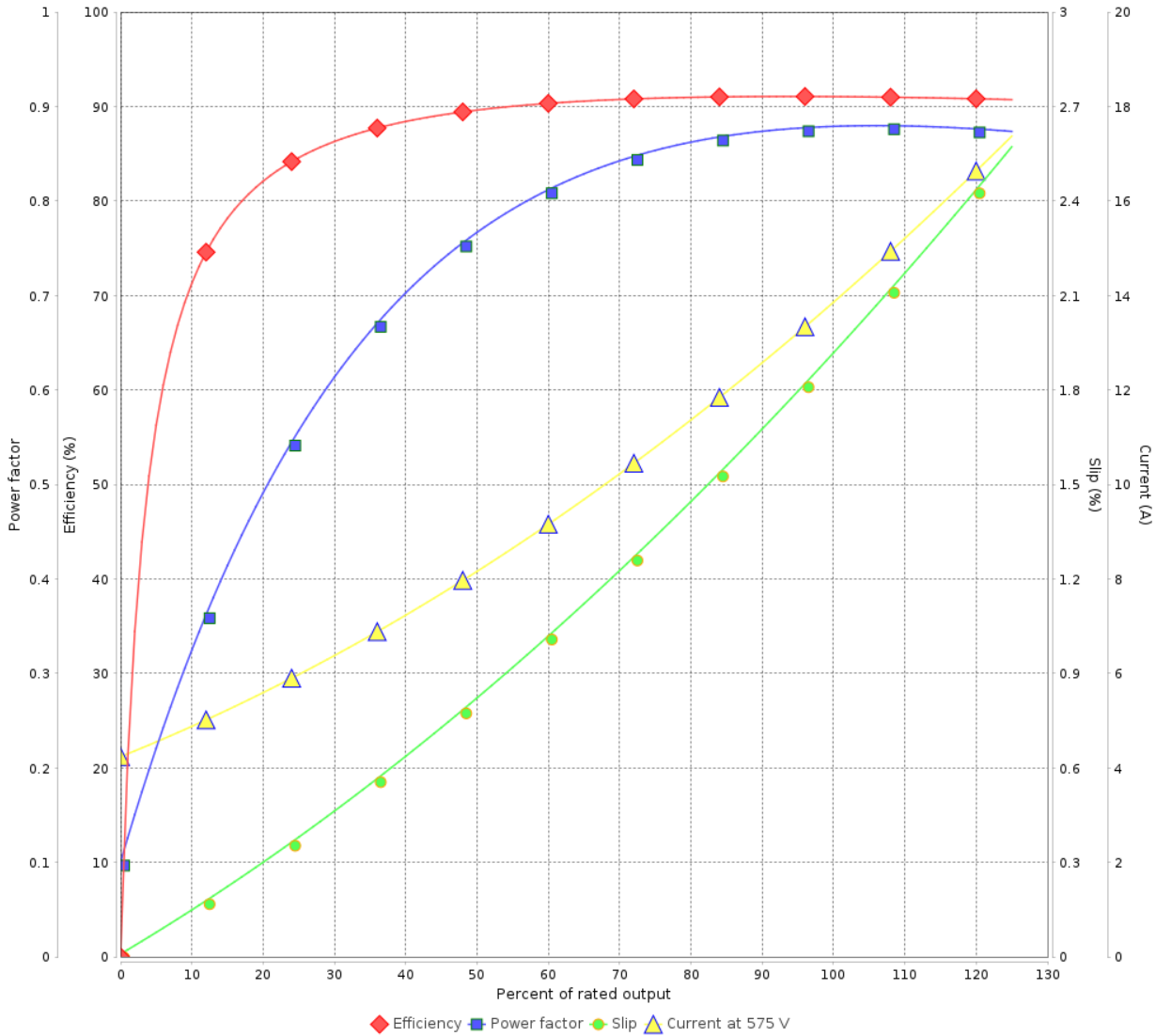
Three Phase Induction Motor - Squirrel Cage



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

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase      Product code : 12810977

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 2P

Rated current	: 13.8 A	Moment of inertia (J)	: 0.0530 kgm <sup>2</sup>
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 3.08 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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