

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase			Product code : 12931515	
Frame	:	284/6TC		Locked rotor time	:	28s (cold) 16s (hot)
Output	:	20 HP (15 kW)		Temperature rise	:	80 K
Poles	:	6		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	:	19.4 A		Protection degree	:	IP55
L. R. Amperes	:	114 A		Cooling method	:	IC411 - TEFC
LRC	:	5.9x(Code G)		Mounting	:	F-1
No load current	:	6.64 A		Rotation <sup>1</sup>	:	Both (CW and CCW)
Rated speed	:	1175 rpm		Noise level <sup>2</sup>	:	59.0 dB(A)
Slip	:	2.08 %		Starting method	:	Direct On Line
Rated torque	:	12.4 kgfm		Approx. weight <sup>3</sup>	:	196 kg
Locked rotor torque	:	220 %				
Breakdown torque	:	250 %				
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 (%)	91.0	91.7	91.7	Max. traction	:	343 kgf
Power Factor	0.70	0.80	0.85	Max. compression	:	540 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)
9.9	8.5	7.9	5.2	3.7	2.6	1.8
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6311 C3		6211 C3		
Sealing	:	Taconite Labyrinth		Taconite Labyrinth		
Lubrication interval	:	20000 h		20000 h		
Lubricant amount	:	18 g		11 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

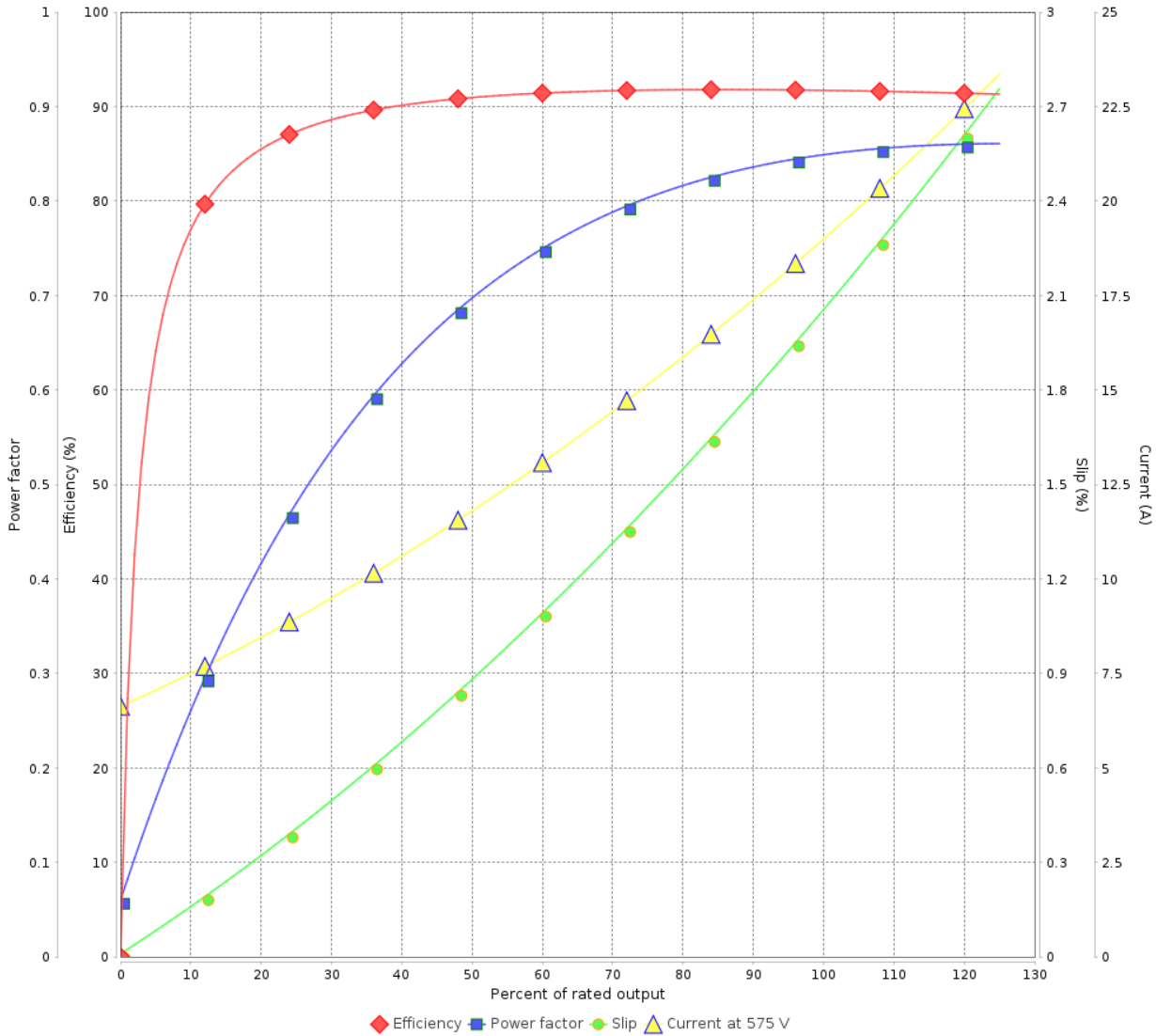
Three Phase Induction Motor - Squirrel Cage



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

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase      Product code : 12931515

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 6P

Rated current	: 19.4 A	Moment of inertia (J)	: 0.3861 kgm <sup>2</sup>
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 12.4 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1175 rpm	Design	: B

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