

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase		Product code :		11944373
Frame	:	444/5TC		Locked rotor time	:	36s (cold) 20s (hot)
Output	:	100 HP (75 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	:	96.8 A		Protection degree	:	IP55
L. R. Amperes	:	571 A		Cooling method	:	IC411 - TEFC
LRC	:	5.9x(Code G)		Mounting	:	F-1
No load current	:	33.6 A		Rotation <sup>1</sup>	:	Both (CW and CCW)
Rated speed	:	1185 rpm		Noise level <sup>2</sup>	:	69.0 dB(A)
Slip	:	1.25 %		Starting method	:	Direct On Line
Rated torque	:	61.2 kgfm		Approx. weight <sup>3</sup>	:	0.0 kg
Locked rotor torque	:	220 %				
Breakdown torque	:	229 %				
Insulation class	:	F				
Service factor	:	1.25				
Moment of inertia (J)	:	3.68 kgm <sup>2</sup>				
Design	:	B				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	94.5	95.0	95.0	Max. traction	:	1232 kgf
Power Factor	0.68	0.78	0.82	Max. compression	:	1232 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)
5.7	4.4	3.9	3.2	2.1	1.6	1.0
			<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6319 C3		6316 C3		
Sealing	:	Taconite Labyrinth		Taconite Labyrinth		
Lubrication interval	:	13000 h		16000 h		
Lubricant amount	:	45 g		34 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						
Checked by					Page	Revision
Date	25/07/2023				1 / 2	

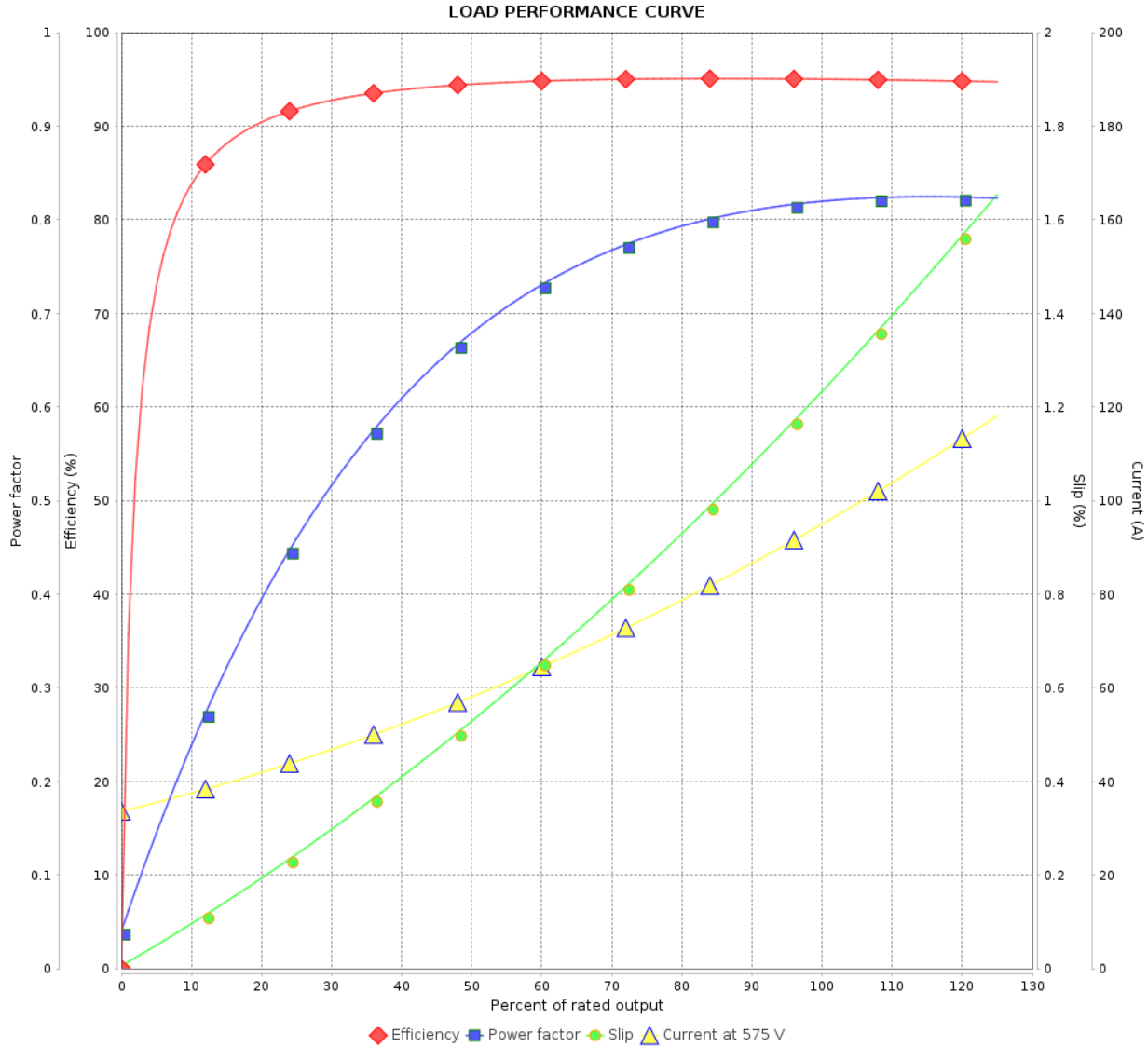
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase      Product code : 11944373



Performance : 575 V 60 Hz 6P

Rated current	: 96.8 A	Moment of inertia (J)	: 3.68 kgm <sup>2</sup>
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 61.2 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 1185 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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