

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase		Product code :		14922595
Frame	:	445/7T		Locked rotor time	:	36s (cold) 20s (hot)
Output	:	150 HP (110 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	:	141 A		Protection degree	:	IP55
L. R. Amperes	:	859 A		Cooling method	:	IC411 - TEFC
LRC	:	6.1x(Code G)		Mounting	:	F-1
No load current	:	52.0 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	:	91.6 kgfm		Approx. weight <sup>3</sup>	:	1064 kg
Locked rotor torque	:	229 %				
Breakdown torque	:	250 %				
Insulation class	:	F				
Service factor	:	1.15				
Moment of inertia (J)	:	5.63 kgm <sup>2</sup>				
Design	:	B				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	95.0	95.4	95.8	Max. traction : 1477 kgf		
Power Factor	0.67	0.78	0.82	Max. compression : 2541 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)
5.1	3.8	3.4	2.9	1.9	1.4	0.8
Bearing type			<u>Drive end</u>	<u>Non drive end</u>		
Sealing			NU-319 C3	6316 C3		
Lubrication interval			Inpro/Seal	Inpro/Seal		
Lubricant amount			9000 h	16000 h		
Lubricant type			45 g	34 g		
			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.		
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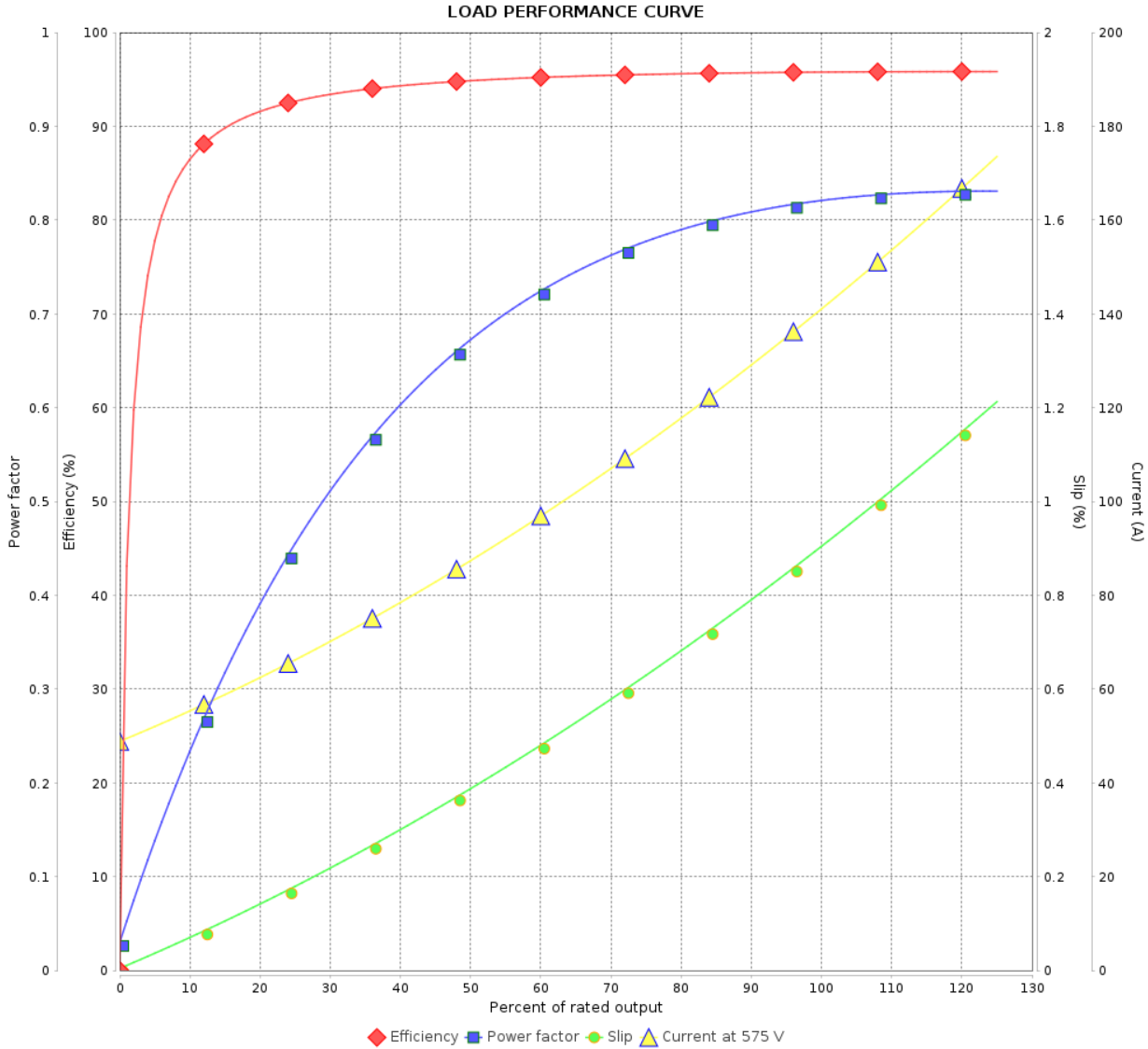
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase      Product code : 14922595



Performance : 575 V 60 Hz 6P

Rated current : 141 A	Moment of inertia (J) : 5.63 kgm <sup>2</sup>
LRC : 6.1	Duty cycle : Cont.(S1)
Rated torque : 91.6 kgfm	Insulation class : F
Locked rotor torque : 229 %	Service factor : 1.15
Breakdown torque : 250 %	Temperature rise : 80 K
Rated speed : 1185 rpm	Design : B

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