

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code :		11815159	
Frame	:	447/9T	Locked rotor time	:	27s (cold) 15s (hot)	
Output	:	250 HP (185 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	:	225 A	Protection degree	:	IP55	
L. R. Amperes	:	1461 A	Cooling method	:	IC411 - TEFC	
LRC	:	6.5x(Code G)	Mounting	:	F-1	
No load current	:	68.0 A	Rotation <sup>1</sup>	:	Both (CW and CCW)	
Rated speed	:	1780 rpm	Noise level <sup>2</sup>	:	75.0 dB(A)	
Slip	:	1.11 %	Starting method	:	Direct On Line	
Rated torque	:	102 kgfm	Approx. weight <sup>3</sup>	:	1279 kg	
Locked rotor torque	:	229 %				
Breakdown torque	:	229 %				
Insulation class	:	F				
Service factor	:	1.15				
Moment of inertia (J)	:	3.77 kgm <sup>2</sup>				
Design	:	B				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	95.8	96.2	96.2	Max. traction	:	1411 kgf
Power Factor	0.75	0.83	0.86	Max. compression	:	2690 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)
4.2	3.5	3.2	2.0	1.4	0.9	0.6
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	NU-322 C3		6319 C3		
Sealing	:	WSeal		WSeal		
Lubrication interval	:	4000 h		8000 h		
Lubricant amount	:	60 g		45 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

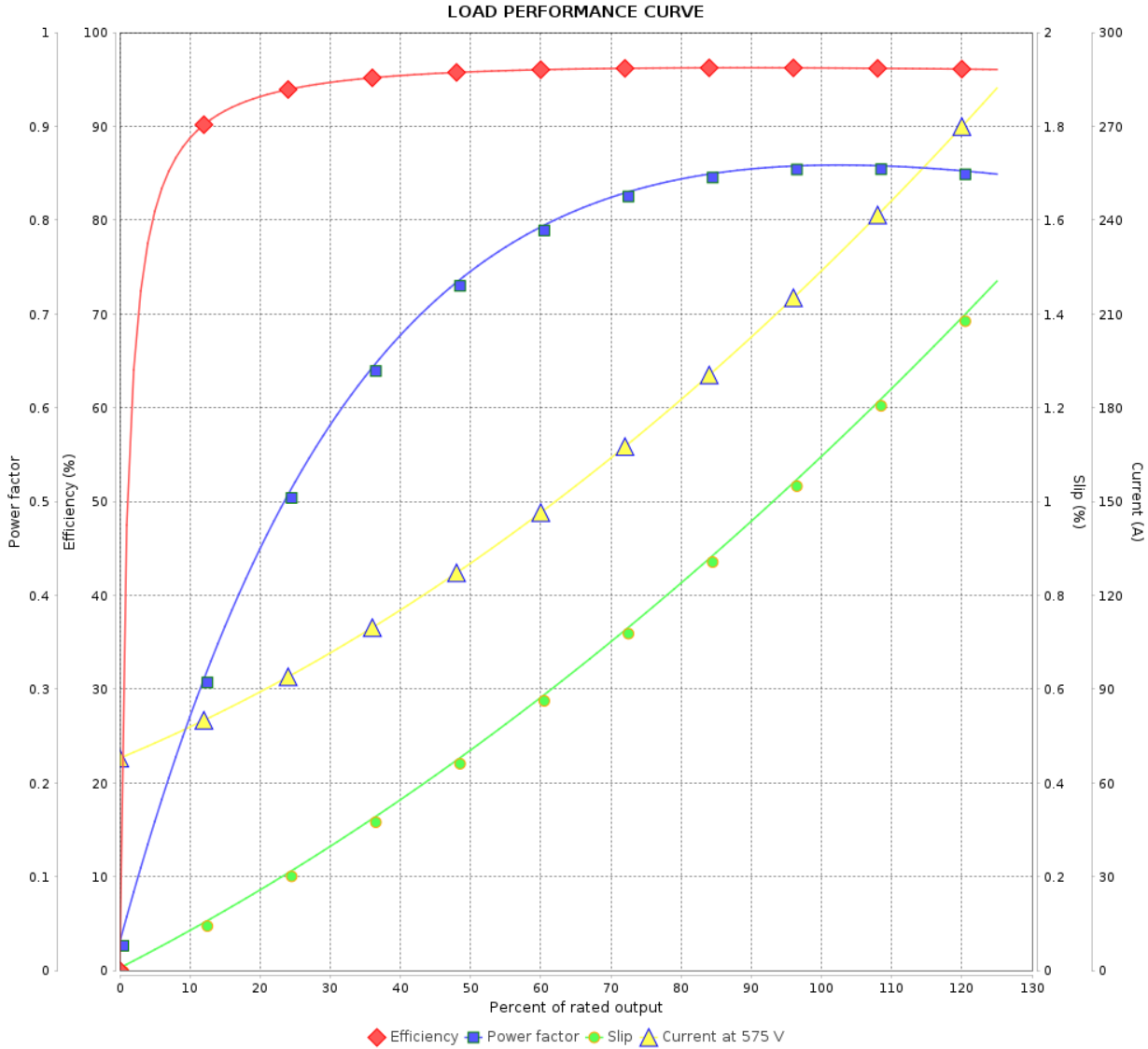
Three Phase Induction Motor - Squirrel Cage



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

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11815159



Performance : 575 V 60 Hz 4P

Rated current	: 225 A	Moment of inertia (J)	: 3.77 kgm <sup>2</sup>
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 102 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B

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