

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line		: W22 Brake Motor NEMA Premium Efficiency Three-Phase		Product code :		13945491	
Frame	: 254T	Locked rotor time	: 37s (cold) 21s (hot)	Output	: 15 HP (11 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	: 14.4 A	Protection degree	: IP55
L. R. Amperes	: 92.2 A	Cooling method	: IC411 - TEFC	LRC	: 6.4x(Code G)	Mounting	: F-1
No load current	: 5.84 A	Rotation <sup>1</sup>	: Both (CW and CCW)	Rated speed	: 1770 rpm	Noise level <sup>2</sup>	: 64.0 dB(A)
Rated torque	: 6.15 kgfm	Starting method	: Direct On Line	Slip	: 1.67 %	Approx. weight <sup>3</sup>	: 144 kg
Locked rotor torque	: 229 %			Breakdown torque	: 250 %		
Insulation class	: F			Insulation class	: F		
Service factor	: 1.25			Service factor	: 1.25		
Moment of inertia (J)	: 0.1104 kgm <sup>2</sup>			Moment of inertia (J)	: 0.1104 kgm <sup>2</sup>		
Design	: B			Design	: B		
Output	50%	75%	100%	Foundation loads			
Efficiency (%)	91.0	91.7	92.4	Max. traction	: 170 kgf		
Power Factor	0.68	0.78	0.83	Max. compression	: 314 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)	
8.1	7.0	6.5	3.9	2.8	1.8	1.3	
		<u>Drive end</u>		<u>Non drive end</u>			
Bearing type	:	6309 C3		6209 C3			
Sealing	:	V'Ring		Lip Seal			
Lubrication interval	:	20000 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.			
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### Brake information

Voltage: 525-575 V  
Brake Torque: 15.3 kgfm

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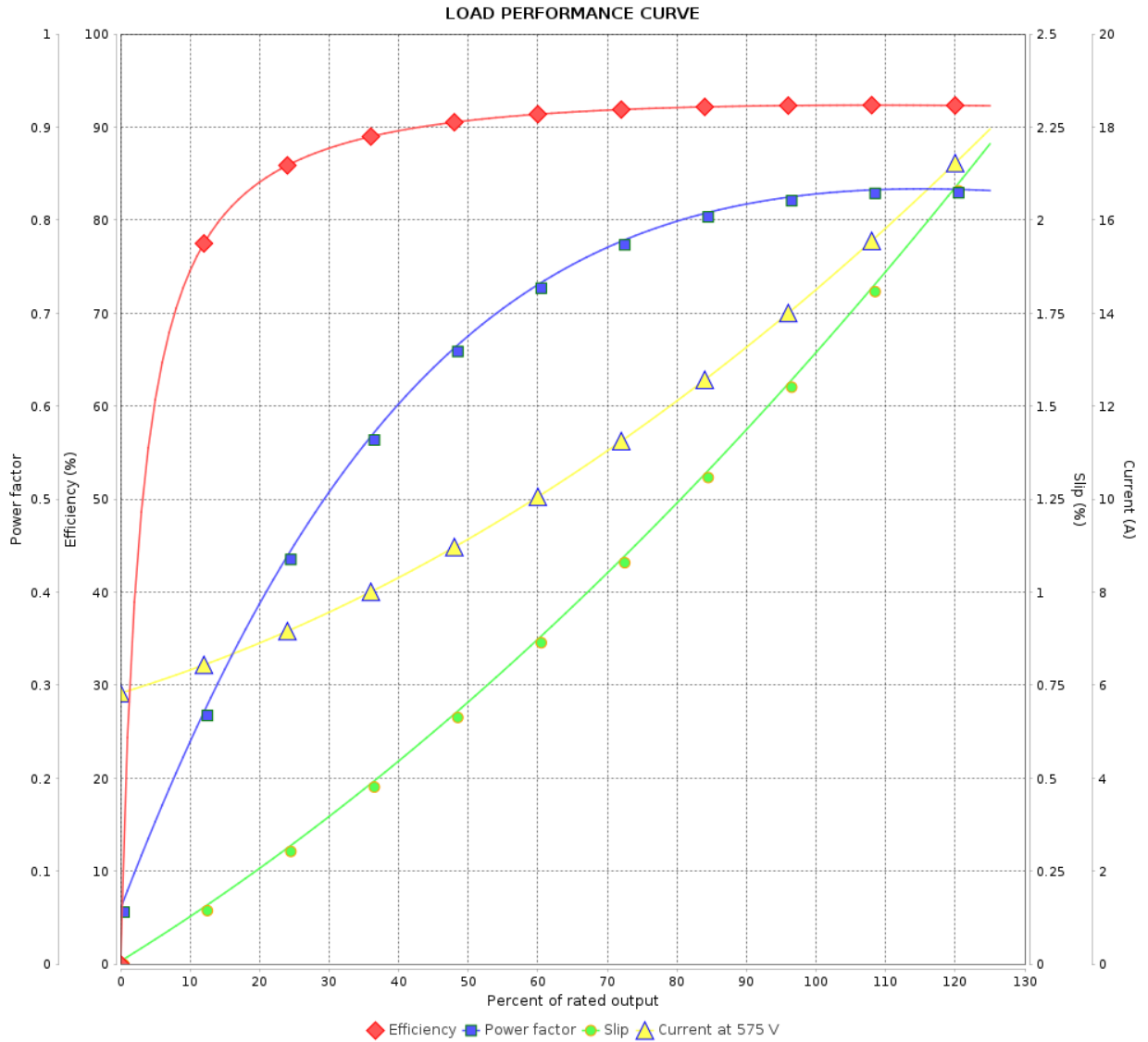
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase      Product code : 13945491



Performance : 575 V 60 Hz 4P

Rated current : 14.4 A  
 LRC : 6.4  
 Rated torque : 6.15 kgfm  
 Locked rotor torque : 229 %  
 Breakdown torque : 250 %  
 Rated speed : 1770 rpm

Moment of inertia (J) : 0.1104 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : B

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