

# 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	: 55s (cold) 31s (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	: 5.60 A	Rotation <sup>1</sup>	: Both (CW and CCW)	Rated speed	: 1768 rpm	Noise level <sup>2</sup>	: 64.0 dB(A)
Rated torque	: 6.16 kgfm	Starting method	: Direct On Line	Slip	: 1.78 %	Approx. weight <sup>3</sup>	: 148 kg
Locked rotor torque	: 240 %			Breakdown torque	: 260 %		
Insulation class	: F			Service factor	: 1.25		
Moment of inertia (J)	: 0.1104 kgm <sup>2</sup>			Design	: B		
Output	50%	75%	100%	Foundation loads			
Efficiency (%)	91.0	91.7	92.4	Max. traction	: 178 kgf		
Power Factor	0.68	0.78	0.83	Max. compression	: 325 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	6.8	6.3	3.9	2.7	1.8	1.2	
		<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.			
Rev.	Changes Summary			Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	26/04/2024				1 / 3		

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### Brake information

Voltage: 525-575 V  
Brake Torque: 15.3 kgfm

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	26/04/2024		2 / 3	

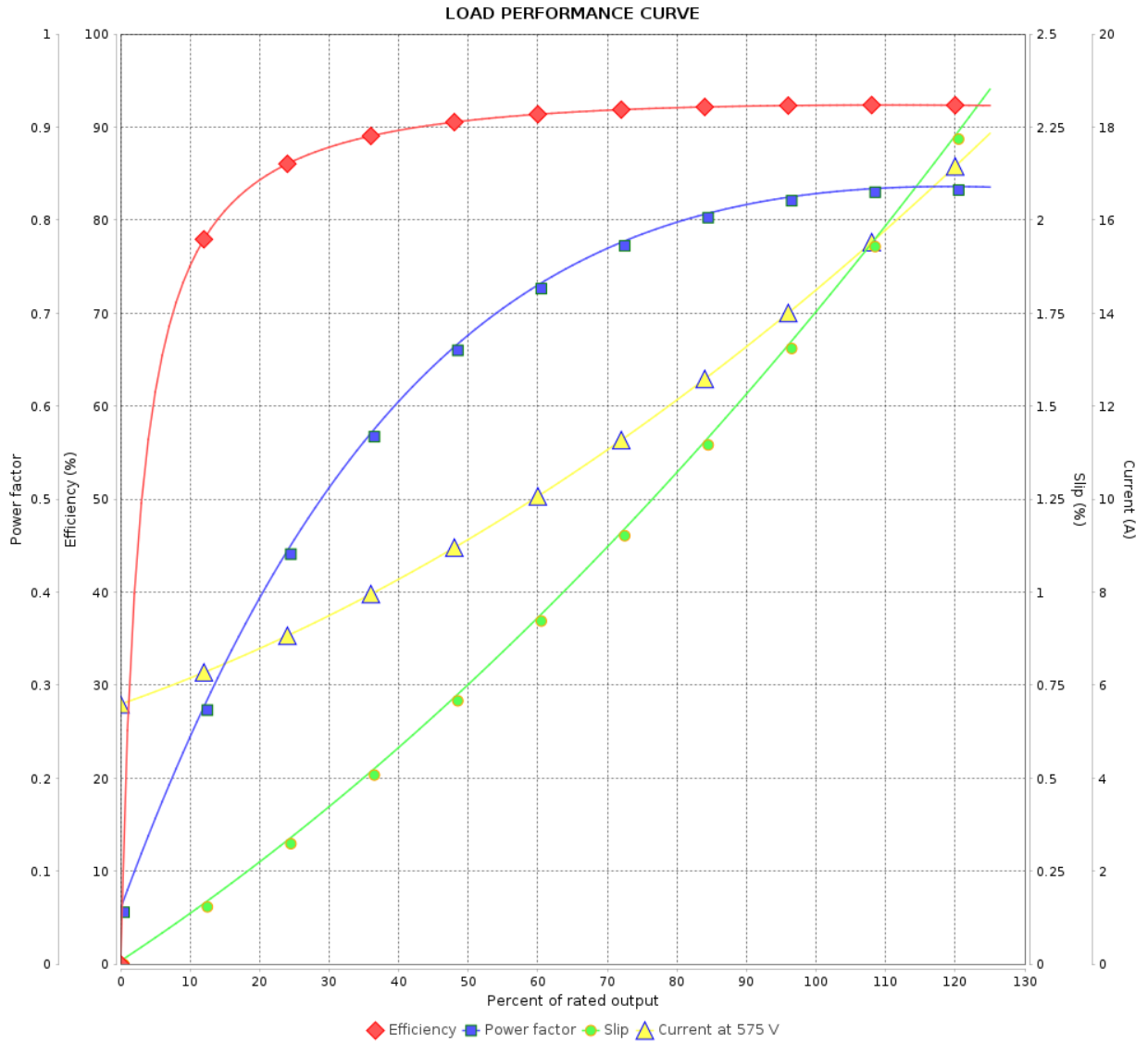
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

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



Performance : 575 V 60 Hz 4P

Rated current	: 14.4 A	Moment of inertia (J)	: 0.1104 kgm <sup>2</sup>
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 6.16 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1768 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 3 / 3	Revision
Checked by				
Date	26/04/2024			