

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

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 ¹	: Both (CW and CCW)
Rated speed	: 1770 rpm	Noise level ²	: 64.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 6.15 kgfm	Approx. weight ³	: 144 kg
Locked rotor torque	: 229 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.1104 kgm ²		
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

	Drive end	Non drive end
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				
Date	14/07/2025			
			Page	Revision
			1 / 3	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Brake information

Voltage: 525-575 V
Brake Torque: 15.3 kgfm

Rev.	Changes Summary		Performed	Checked	Date
Performed by			Page 2 / 3		Revision
Checked by					
Date	14/07/2025				

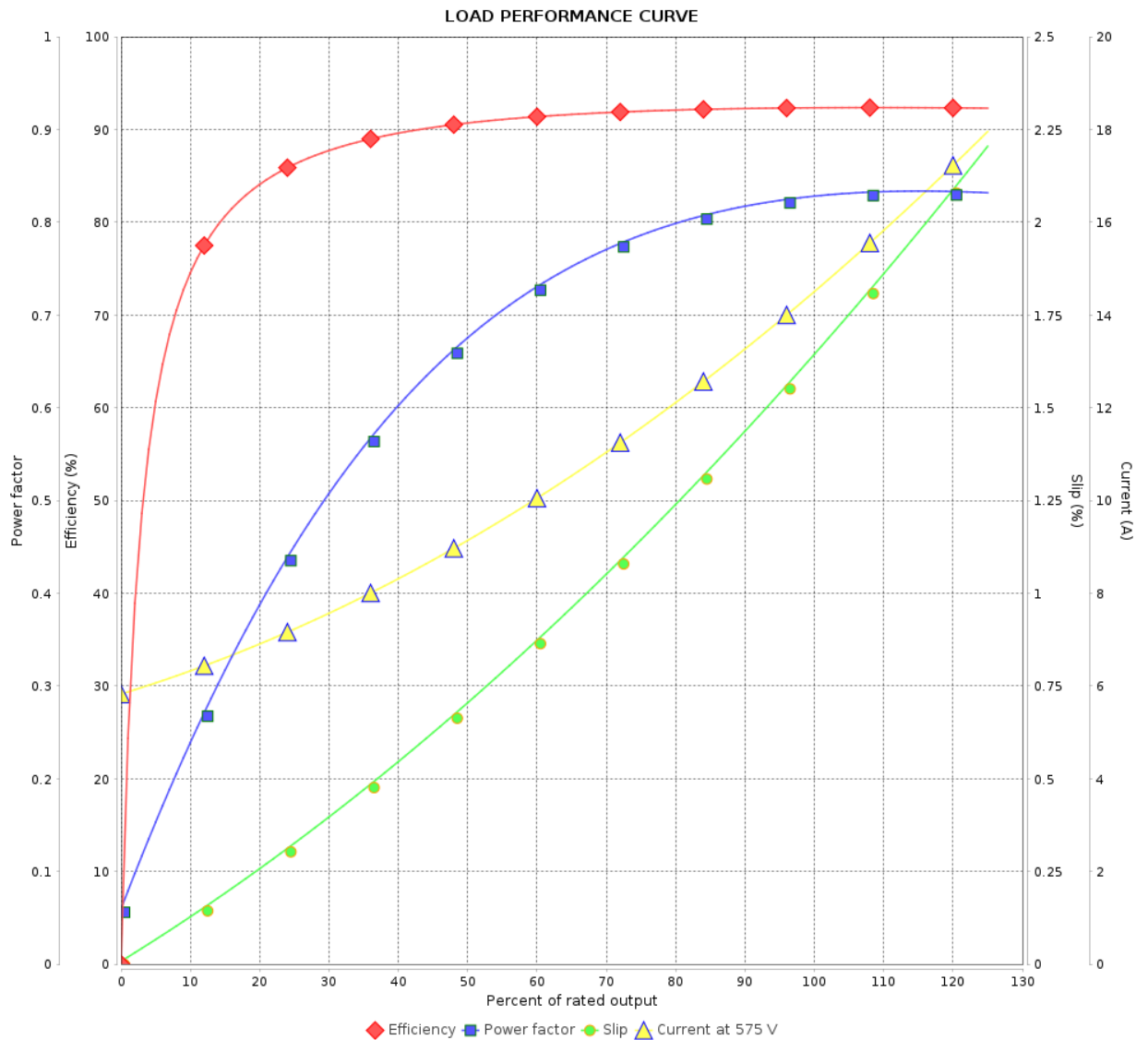
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

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



Performance : 575 V 60 Hz 4P

Rated current	: 14.4 A	Moment of inertia (J)	: 0.1104 kgm ²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 6.15 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 3		
Checked by				
Date	14/07/2025			
		Revision		