

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 NEMA Premium Efficiency Three-Phase		Product code :		12984344
Frame	:	254/6TC		Locked rotor time	:	54s (cold) 30s (hot)
Output	:	7.5 HP (5.5 kW)		Temperature rise	:	80 K
Frequency	:	60 Hz		Duty cycle	:	Cont.(S1)
Rated voltage	:	575 V		Ambient temperature	:	-20°C to +40°C
Poles	:	8		Altitude	:	1000 m.a.s.l.
Rated current	:	9.02 A		Protection degree	:	IP55
	:	5.3x(Code H)		Cooling method	:	IC411 - TEFC
Rated speed	:	880 rpm		Mounting	:	F-1
Rated torque	:	6.19 kgfm		Rotation <sup>1</sup>	:	Both (CW and CCW)
Insulation class	:	F		Noise level <sup>2</sup>	:	54.0 dB(A)
Service factor	:	1.25		Starting method	:	Direct On Line
Moment of inertia (J)	:	0.1867 kgm <sup>2</sup>		Approx. weight <sup>3</sup>	:	125 kg
Design	:	B				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	85.5	87.5	87.5	Max. traction	:	181 kgf
Power Factor	0.50	0.63	0.70	Max. compression	:	305 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)
13.7	11.9	12.0	8.0	6.0	4.8	3.7
			<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6309 C3		6209 C3		
Sealing	:	V'Ring		V'Ring		
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
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Checked by					Page	Revision
Date	23/03/2026				1 / 2	

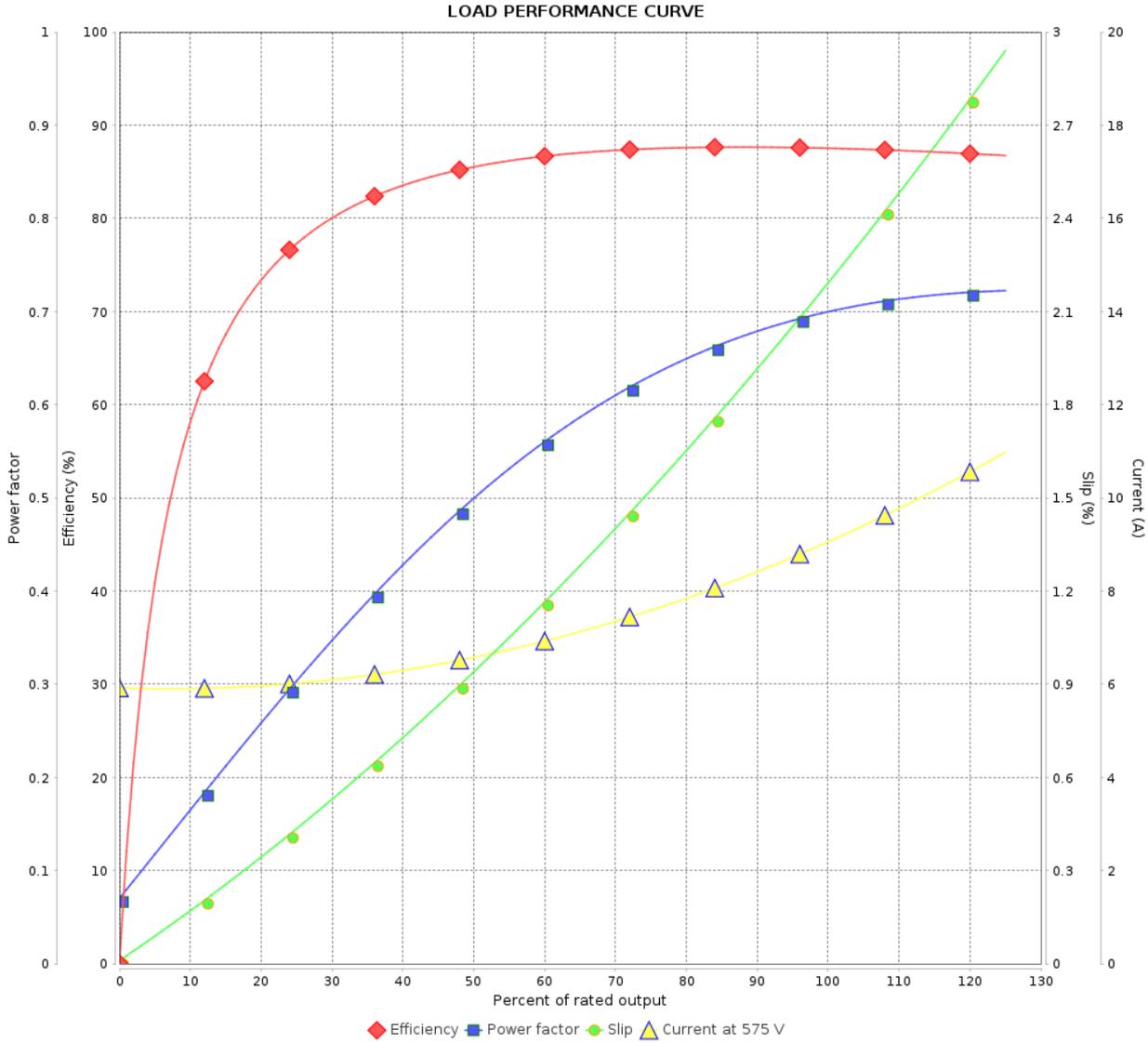
# LOAD PERFORMANCE CURVE

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