

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line		: Rolled Steel NEMA Premium Efficiency Three-Phase			Product code :		12845391
Frame	:	182/4TC			Locked rotor time	:	45s (cold) 25s (hot)
Output	:	3 HP (2.2 kW)			Temperature rise	:	80 K
Frequency	:	60 Hz			Duty cycle	:	Cont.(S1)
Rated voltage	:	575 V			Ambient temperature	:	-20°C to +40°C
Poles	:	2			Altitude	:	1000 m.a.s.l.
Rated current	:	3.01 A			Protection degree	:	IP55
	:	8.8x(Code K)			Cooling method	:	IC411 - TEFC
Rated speed	:	3515 rpm			Mounting	:	F-1
Rated torque	:	0.619 kgfm			Rotation <sup>1</sup>	:	Both (CW and CCW)
Insulation class	:	F			Noise level <sup>2</sup>	:	68.0 dB(A)
Service factor	:	1.15			Starting method	:	Direct On Line
Moment of inertia (J)	:	0.0066 kgm <sup>2</sup>			Approx. weight <sup>3</sup>	:	28.5 kg
Design	:	B					
Output	50%	75%	100%	Foundation loads			
Efficiency (%)	84.0	86.5	86.5	Max. traction			: 31 kgf
Power Factor	0.70	0.80	0.85	Max. compression			: 59 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)	
14.2	10.4	10.2	8.6	4.8	3.5	2.2	
			<u>Drive end</u>	<u>Non drive end</u>			
Bearing type	:	6206 ZZ		6205 ZZ			
Sealing	:	V'Ring		Without Bearing Seal			
Lubrication interval	:	-		-			
Lubricant amount	:	-		-			
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	08/05/2026				1 / 2		

# LOAD PERFORMANCE CURVE

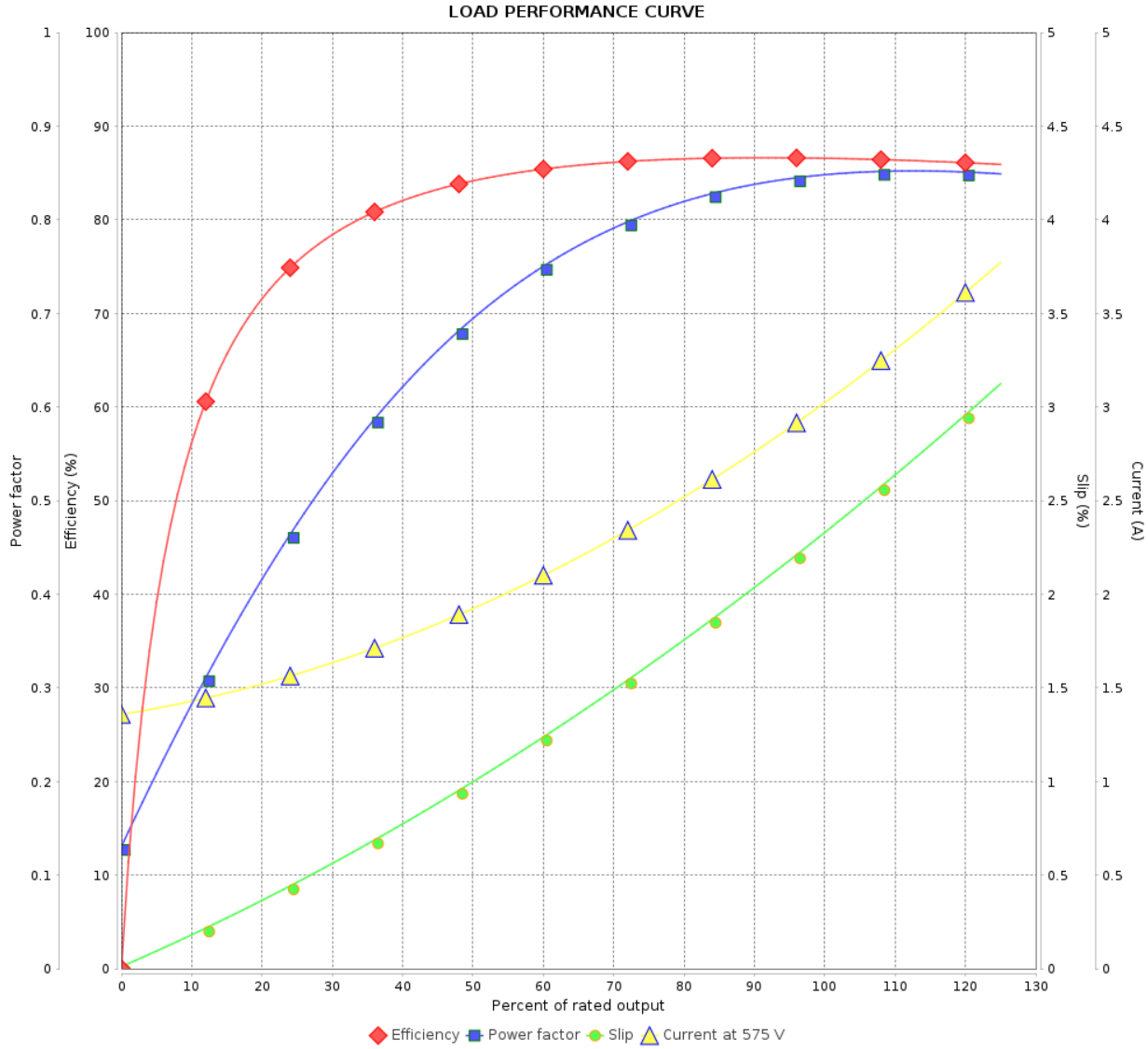
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Product line : Rolled Steel NEMA Premium  
Efficiency Three-Phase

Product code : 12845391



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