

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line		: Rolled Steel NEMA Premium Efficiency Three-Phase			Product code : 14893734		
Frame	: 182/4TC			Locked rotor time	: 45s (cold) 25s (hot)		
Output	: 3 HP (2.2 kW)			Temperature rise	: 80 K		
Poles	: 2			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	: 3.01 A			Protection degree	: IP55		
L. R. Amperes	: 26.5 A			Cooling method	: IC411 - TEFC		
LRC	: 8.8x(Code K)			Mounting	: F-1		
No load current	: 1.36 A			Rotation ¹	: Both (CW and CCW)		
Rated speed	: 3515 rpm			Noise level ²	: 68.0 dB(A)		
Slip	: 2.36 %			Starting method	: Direct On Line		
Rated torque	: 0.619 kgfm			Approx. weight ³	: 28.5 kg		
Locked rotor torque	: 240 %						
Breakdown torque	: 350 %						
Insulation class	: F						
Service factor	: 1.15						
Moment of inertia (J)	: 0.0066 kgm ²						
Design	: B						
Output	25%	50%	75%	100%	Foundation loads		
Efficiency (%)	0.000	84.0	86.5	86.5	Max. traction : 31 kgf		
Power Factor	0.00	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	13/11/2025				1 / 2		

LOAD PERFORMANCE CURVE

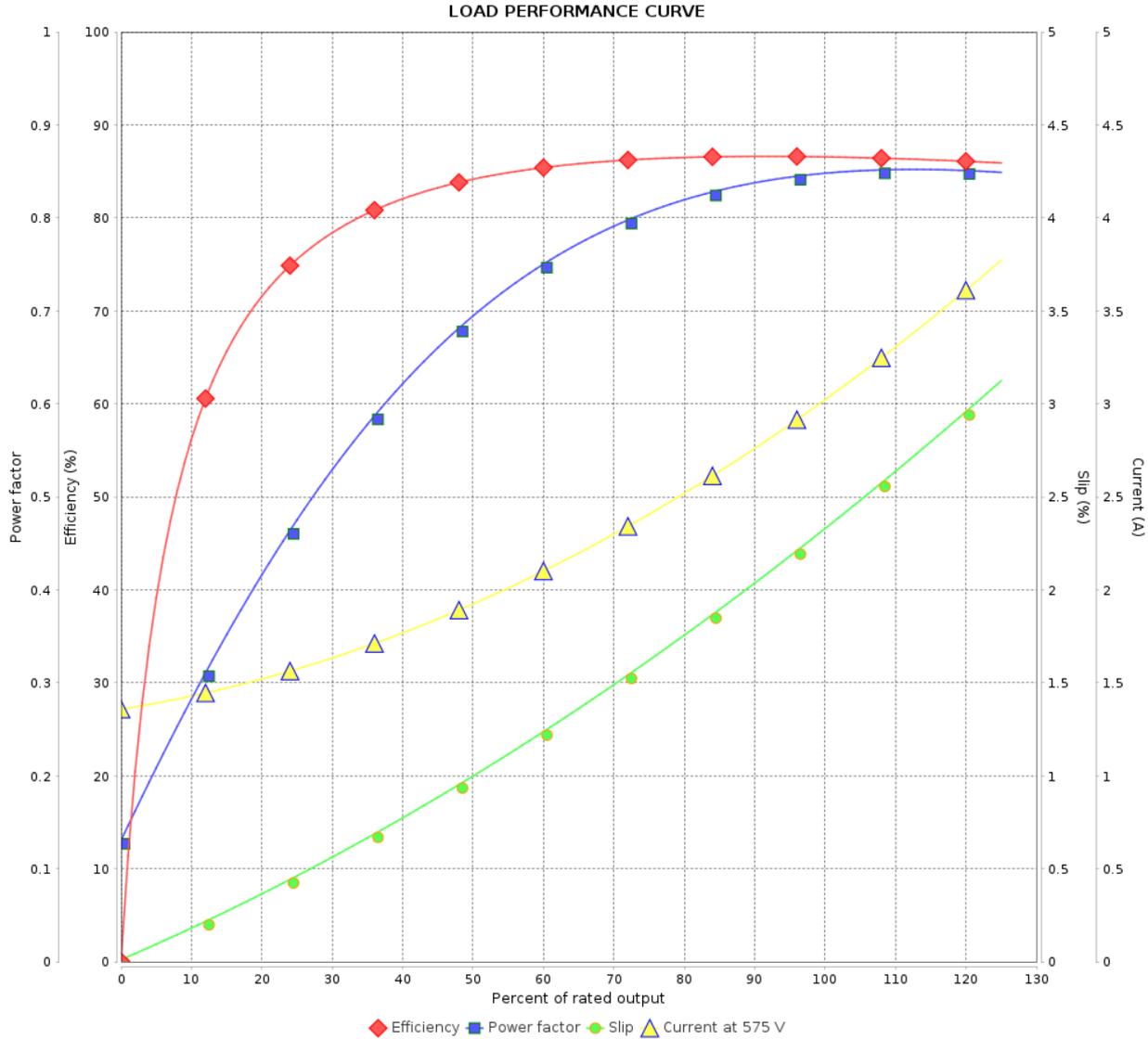
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 14893734



Performance : 575 V 60 Hz 2P

Rated current : 3.01 A
 LRC : 8.8
 Rated torque : 0.619 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 350 %
 Rated speed : 3515 rpm

Moment of inertia (J) : 0.0066 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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