DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase

Product code : 18974376

Frame	: 143/5TC	Locked rotor time	: 37s (cold) 21s (hot)
Output	: 1.5 HP (1.1 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	: 1.62 A	Protection degree	: IP55
L. R. Amperes	: 13.3 A	Cooling method	: IC411 - TEFC
LRC	: 8.2x(Code K)	Mounting	: F-1
No load current	: 0.864 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 1750 rpm	Noise level[2]	: 52.0 dB(A)
Slip	: 2.78 %	Vibration	: A
Rated torque	: 0 kgfm	Starting method	: Direct On Line
Locked rotor torque	: 270 %	Approx. weight[3]	: 17.2 kg
Breakdown torque	: 300 %	Painting plan	: 207N (ISO 12944 - C2)
Insulation class	: F	Color	: Munsell N 1 - Matte
Service factor	: 1.15	Design	: B
Moment of inertia (J)	: 0.0046 kgm²		

Output	50%	75%	100%
Efficiency (%)	85.5	86.5	86.5
Power Factor	0.59	0.72	0.79

Foundation loads

Max. traction : 44 kgf

Max. compression : 62 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)
17.4	15.2	15.3	9.1	6.5	4.7	3.5

		Drive end	Non drive end
Bearing type	:	6205 ZZ	6203 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

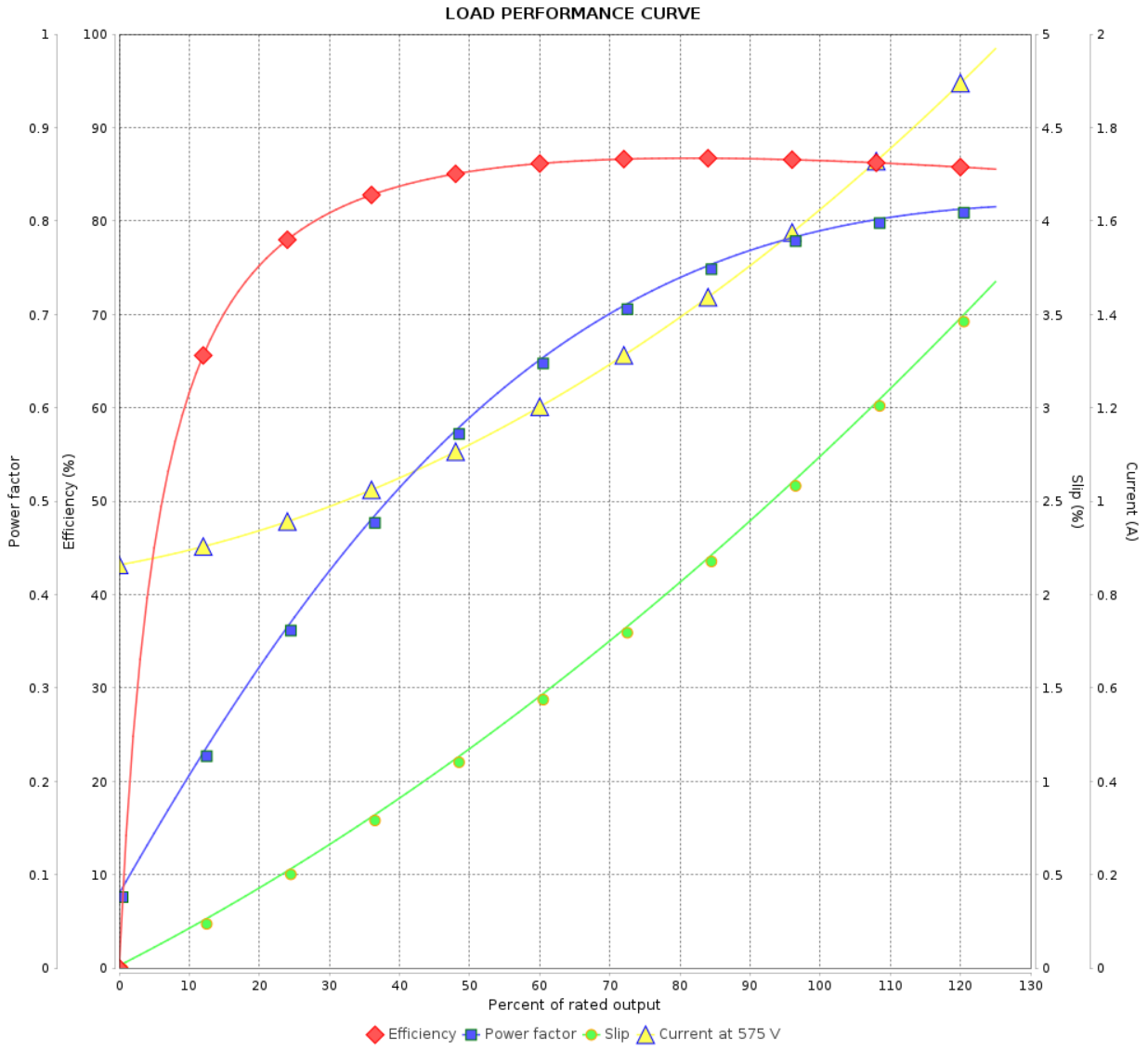
Performed by				
Checked by			Page	Revision
Date	23/09/2026		1 / 2	

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	18974376



Performance	: 575 V 60 Hz 4P		
Rated current	: 1.62 A	Moment of inertia (J)	: 0.0046 kgm²
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	23/09/2026		2 / 2	

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