DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12845570

Frame	: 254/6TC	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight³	: 102 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0904 kgm²
Design	: B		

Output [HP]		15
Poles		4
Frequency [Hz]		60
Rated voltage [V]		575
Rated current [A]		14.6
L. R. Amperes [A]		94.6
LRC [A]		6.5x(Code G)
No load current [A]		6.92
Rated speed [RPM]		1770
Slip [%]		1.67
Rated torque [kgfm]		6.15
Locked rotor torque [%]		250
Breakdown torque [%]		300
Service factor		1.15
Temperature rise		80 K
Locked rotor time		34s (cold) 19s (hot)
Noise level²		68.0 dB(A)
Efficiency (%)	25%	90.8
	50%	91.0
	75%	92.4
	100%	92.4
Power Factor	25%	0.39
	50%	0.64
	75%	0.76
	100%	0.82

		Drive end	Non drive end
Bearing type	:	6309 Z C3	6208 Z C3
Sealing	:	V'Ring	Without Bearing Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	8 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 239 kgf

Max. compression : 341 kgf

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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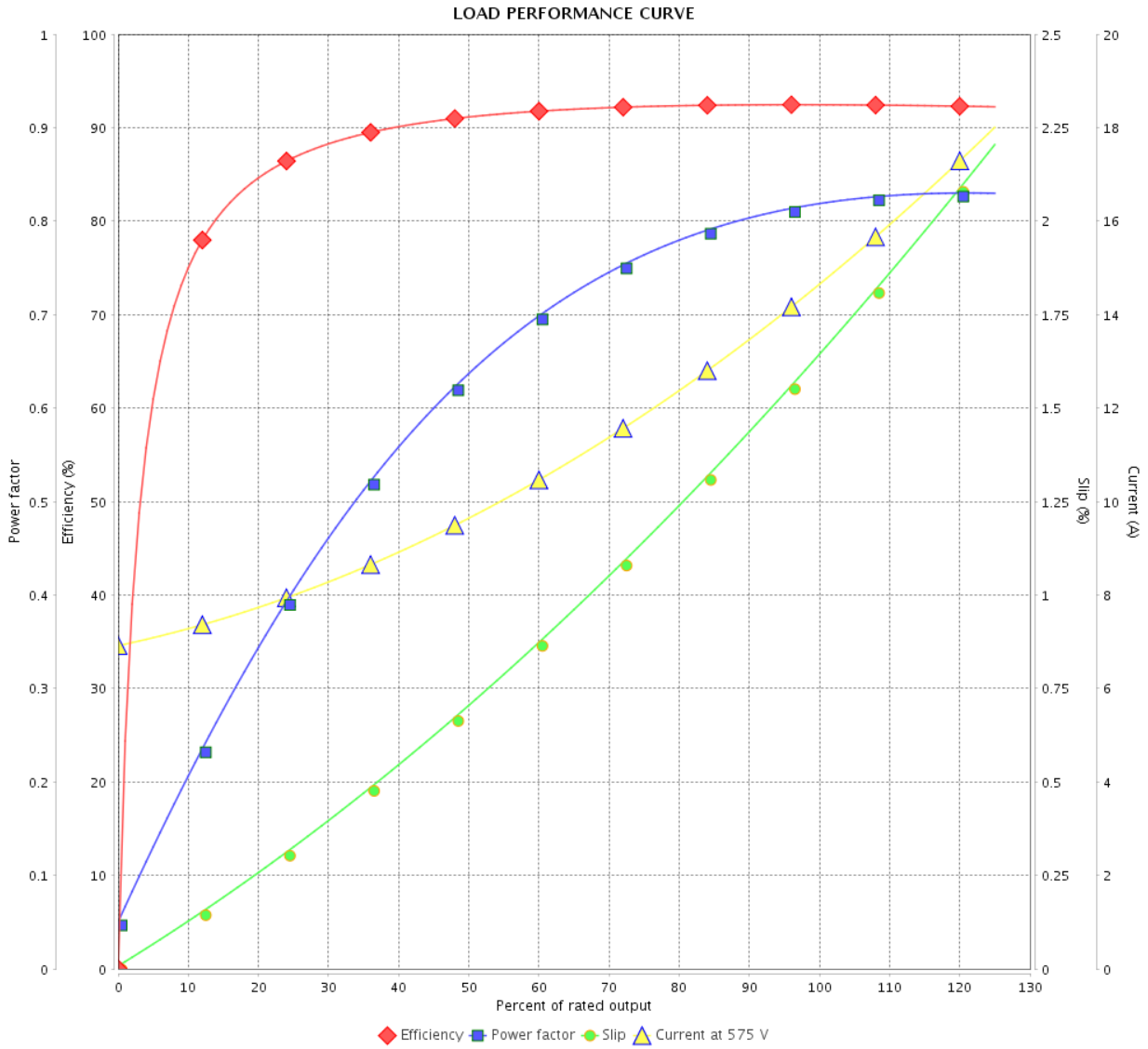
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12845570



Performance	: 575 V 60 Hz 4P

Rated current	: 14.6 A	Moment of inertia (J)	: 0.0904 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 6.15 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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