DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11611670

Frame	: 254/6TC
Output	: 20 HP (15 kW)
Poles	: 2
Frequency	: 60 Hz
Rated voltage	: 575 V
Rated current	: 18.6 A
L. R. Amperes	: 113 A
LRC	: 6.1x(Code G)
No load current	: 4.48 A
Rated speed	: 3530 rpm
Slip	: 1.94 %
Rated torque	: 4.11 kgfm
Locked rotor torque	: 200 %
Breakdown torque	: 240 %
Insulation class	: F
Service factor	: 1.25
Moment of inertia (J)	: 0.0647 kgm²
Design	: B

Locked rotor time	: 25s (cold) 14s (hot)
Temperature rise	: 80 K
Duty cycle	: Cont.(S1)
Ambient temperature	: -20°C to +40°C
Altitude	: 1000 m.a.s.l.
Protection degree	: IP55
Cooling method	: IC411 - TEFC
Mounting	: F-1
Rotation[1]	: Both (CW and CCW)
Noise level[2]	: 72.0 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 122 kg

Output	25%	50%	75%	100%
Efficiency (%)	0.000	90.7	91.0	91.0
Power Factor	0.00	0.79	0.86	0.89

Foundation loads

Max. traction : 88 kgf

Max. compression : 222 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)
9.5	7.9	7.3	4.4	2.7	1.5	1.0

		Drive end	Non drive end
Bearing type	:	6309 C3	6209 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	19000 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

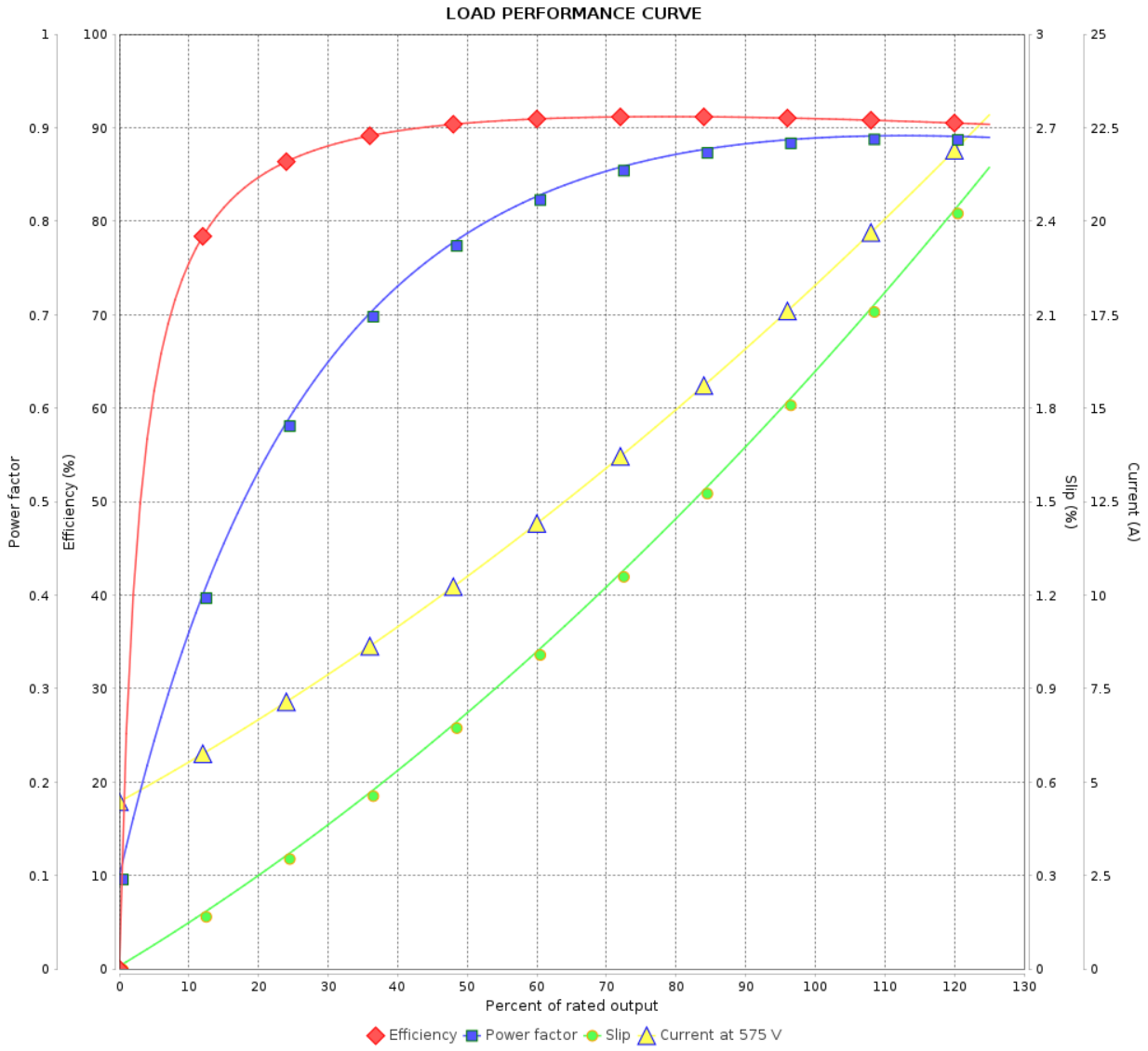
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11611670



Performance	: 575 V 60 Hz 2P		
Rated current	: 18.6 A	Moment of inertia (J)	: 0.0647 kgm²
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 4.11 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

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