DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12717371

Frame	: 324/6TC
Output	: 25 HP (18.5 kW)
Poles	: 6
Frequency	: 60 Hz
Rated voltage	: 575 V
Rated current	: 24.7 A
L. R. Amperes	: 153 A
LRC	: 6.2x(Code G)
No load current	: 11.2 A
Rated speed	: 1180 rpm
Slip	: 1.67 %
Rated torque	: 15.4 kgfm
Locked rotor torque	: 210 %
Breakdown torque	: 260 %
Insulation class	: F
Service factor	: 1.25
Moment of inertia (J)	: 0.4843 kgm²
Design	: B

Locked rotor time	: 46s (cold) 26s (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
Rotation¹	: Both (CW and CCW)
Noise level²	: 62.0 dB(A)
Starting method	: Direct On Line
Approx. weight³	: 244 kg

Output	50%	75%	100%
Efficiency (%)	92.4	93.0	93.0
Power Factor	0.65	0.76	0.81

Foundation loads

Max. traction	: 381 kgf
Max. compression	: 625 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)
7.3	6.1	5.9	3.7	2.5	1.7	1.2

		Drive end	Non drive end
Bearing type	:	6312 C3	6212 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	21 g	13 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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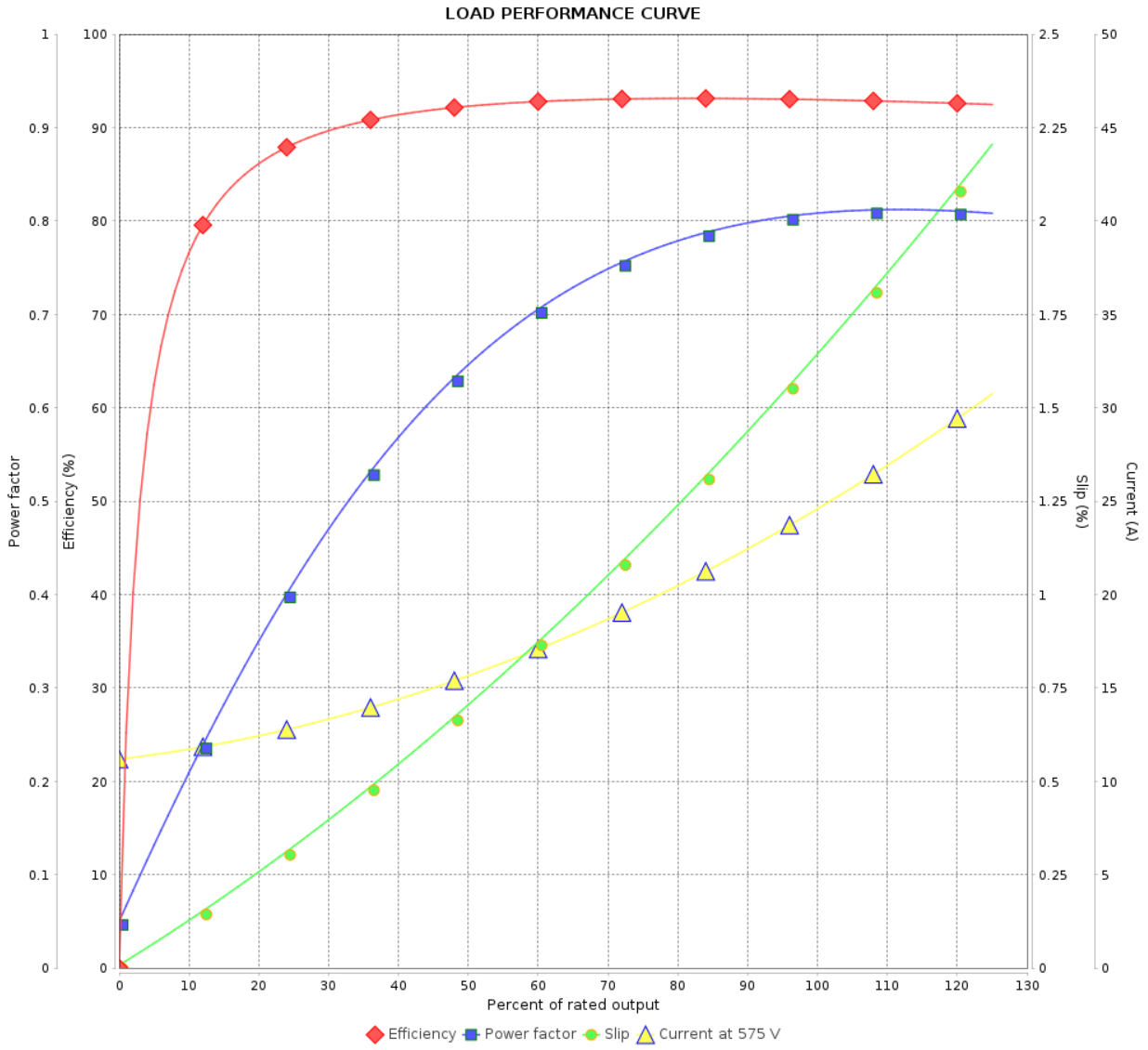
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12717371



Performance	: 575 V 60 Hz 6P

Rated current	: 24.7 A	Moment of inertia (J)	: 0.4843 kgm²
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 15.4 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1180 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

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