DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase

Product code : 17564259

Frame	: 324LP
Output	: 40 HP (30 kW)
Poles	: 4
Frequency	: 60 Hz
Rated voltage	: 575 V
Rated current	: 38.1 A
L. R. Amperes	: 232 A
LRC	: 6.1x(Code G)
No load current	: 13.7 A
Rated speed	: 1770 rpm
Slip	: 1.67 %
Rated torque	: 16.4 kgfm
Locked rotor torque	: 229 %
Breakdown torque	: 240 %
Insulation class	: F
Service factor	: 1.25
Moment of inertia (J)	: 0.3442 kgm²
Design	: B

Locked rotor time	: 32s (cold) 18s (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	: W-6
Rotation¹	: Both (CW and CCW)
Noise level²	: 71.0 dB(A)
Starting method	: Direct On Line
Approx. weight³	: 295 kg

Output	25%	50%	75%	100%
Efficiency (%)	0.000	93.6	94.1	94.1
Power Factor	0.00	0.71	0.80	0.84

Foundation loads

Max. traction	: 0 kgf
Max. compression	: 0 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)
6.0	5.1	5.1	2.8	1.9	1.2	0.8

		Drive end	Non drive end
Bearing type	:	6212	7310BECB
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	12541 h	10618 h
Lubricant amount	:	13 g	15 g
Lubricant type	:	Mobil Polyrex EM	

Notes
W21 IN LINE EXTRA THRUST
NEMA Premium Efficiency

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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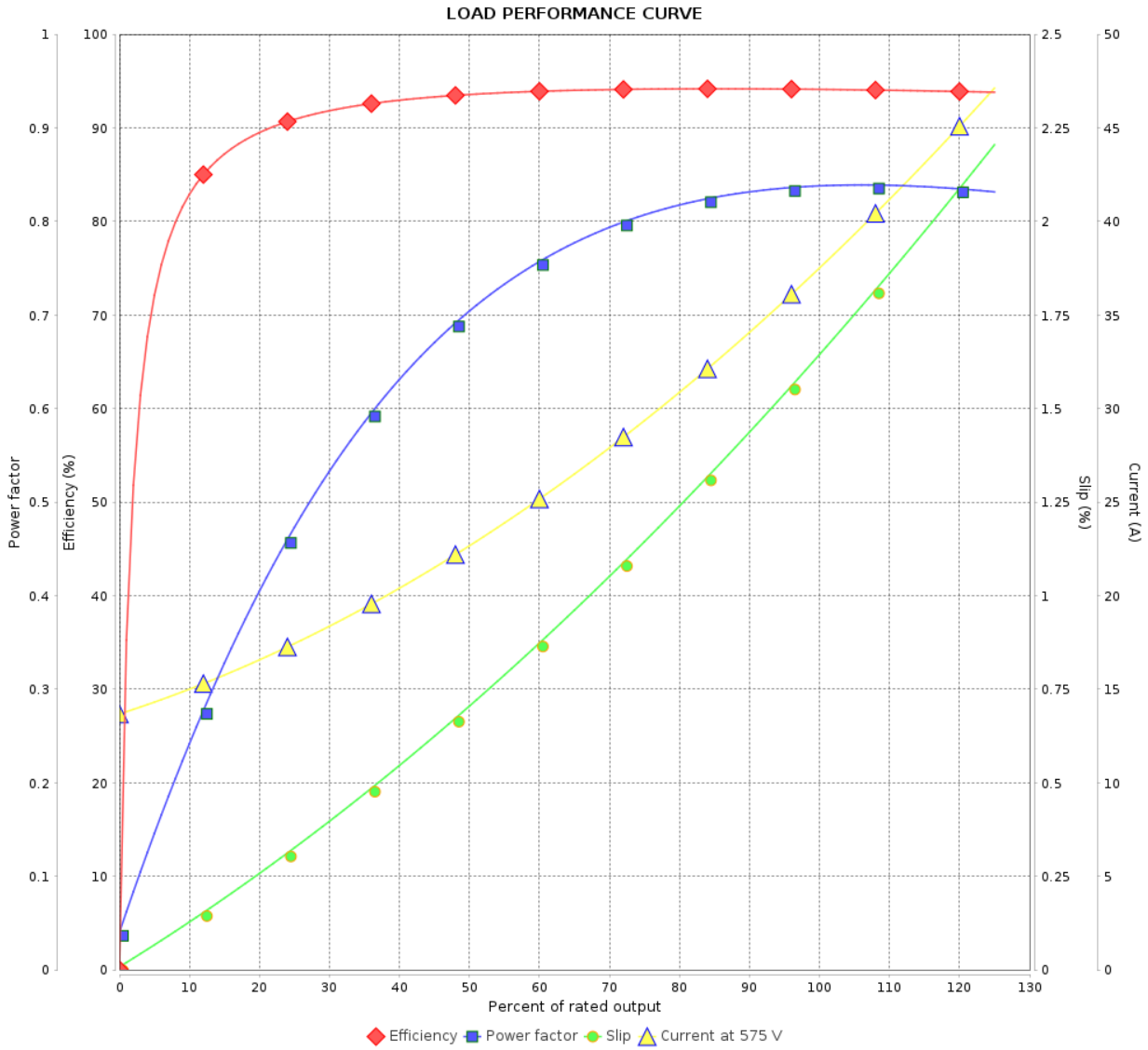
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase	Product code :	17564259



Performance	: 575 V 60 Hz 4P

Rated current	: 38.1 A	Moment of inertia (J)	: 0.3442 kgm²
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 16.4 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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