DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code : 15704987

Frame	: 182/4TC	Locked rotor time	: 73s (cold) 41s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 2.90 A	Protection degree	: IP56
L. R. Amperes	: 25.0 A	Cooling method	: IC411 - TEFC
LRC	: 8.6x(Code K)	Mounting	: F-1
No load current	: 1.04 A	Rotation¹	: Both (CW and CCW)
Rated speed	: 3510 rpm	Noise level²	: 66.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 0.620 kgfm	Approx. weight³	: 44.6 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 380 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0080 kgm²		
Design	: B		

Output	50%	75%	100%
Efficiency (%)	82.5	86.5	86.5
Power Factor	0.75	0.84	0.88

Foundation loads

Max. traction : 27 kgf

Max. compression : 71 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)
14.1	9.5	8.5	8.7	4.4	3.3	1.7

		Drive end	Non drive end
Bearing type	:	6207 C3	6206 C3
Sealing	:	Inpro/Seal	Inpro/Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	7 g	5 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.

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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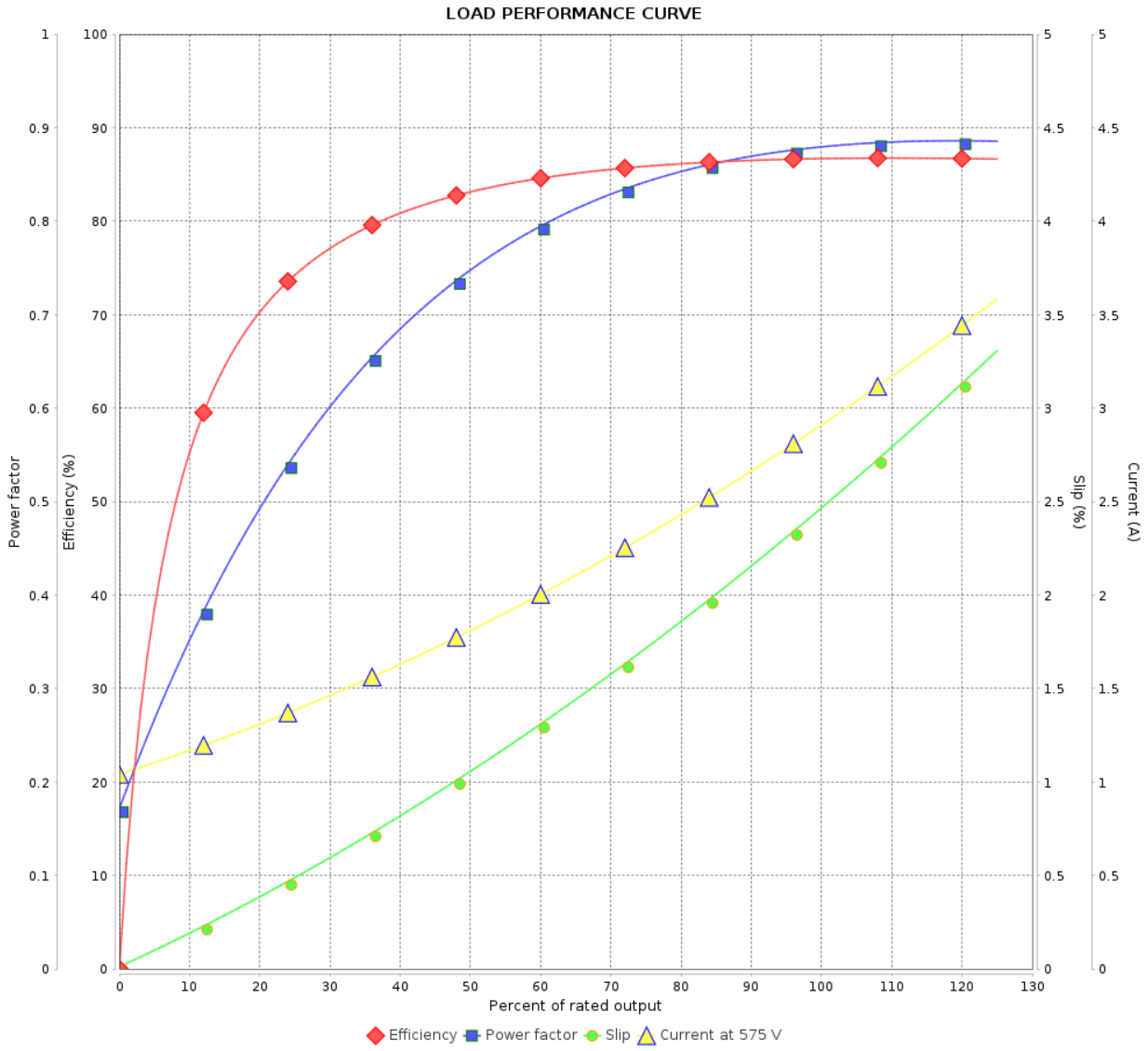
Product line	: W22 IEEE 841 NEMA Premium Efficiency Three-Phase	Product code :	15704987



Performance	: 575 V 60 Hz 2P

Rated current	: 2.90 A	Moment of inertia (J)	: 0.0080 kgm²
LRC	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 0.620 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: B

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