

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 16957356

Frame	: 364/5LP	Locked rotor time	: 45s (cold) 25s (hot)
Output	: 60 HP (45 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	: 54.2 A	Protection degree	: IP55
L. R. Amperes	: 352 A	Cooling method	: IC411 - TEFC
LRC	: 6.5x(Code G)	Mounting	: W-6
No load current	: 12.3 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3552 rpm	Noise level ²	: 85.0 dB(A)
Slip	: 1.33 %	Starting method	: Direct On Line
Rated torque	: 12.3 kgfm	Approx. weight ³	: 465 kg
Locked rotor torque	: 200 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.4198 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	92.4	93.0	93.6	Max. traction : 0 kgf
Power Factor	0.00	0.83	0.88	0.89	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)
6.3	4.6	4.2	3.3	1.7	1.1	0.6

	Drive end	Non drive end
Bearing type	: 6314	: 7311BECB
Sealing	: Oil Seal	: Lip Seal
Lubrication interval	: 1802 h	: 1621 h
Lubricant amount	: 27 g	: 18 g
Lubricant type	: Mobil Polyrex EM	

Notes

IN LINE EXTRA 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.

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LOAD PERFORMANCE CURVE

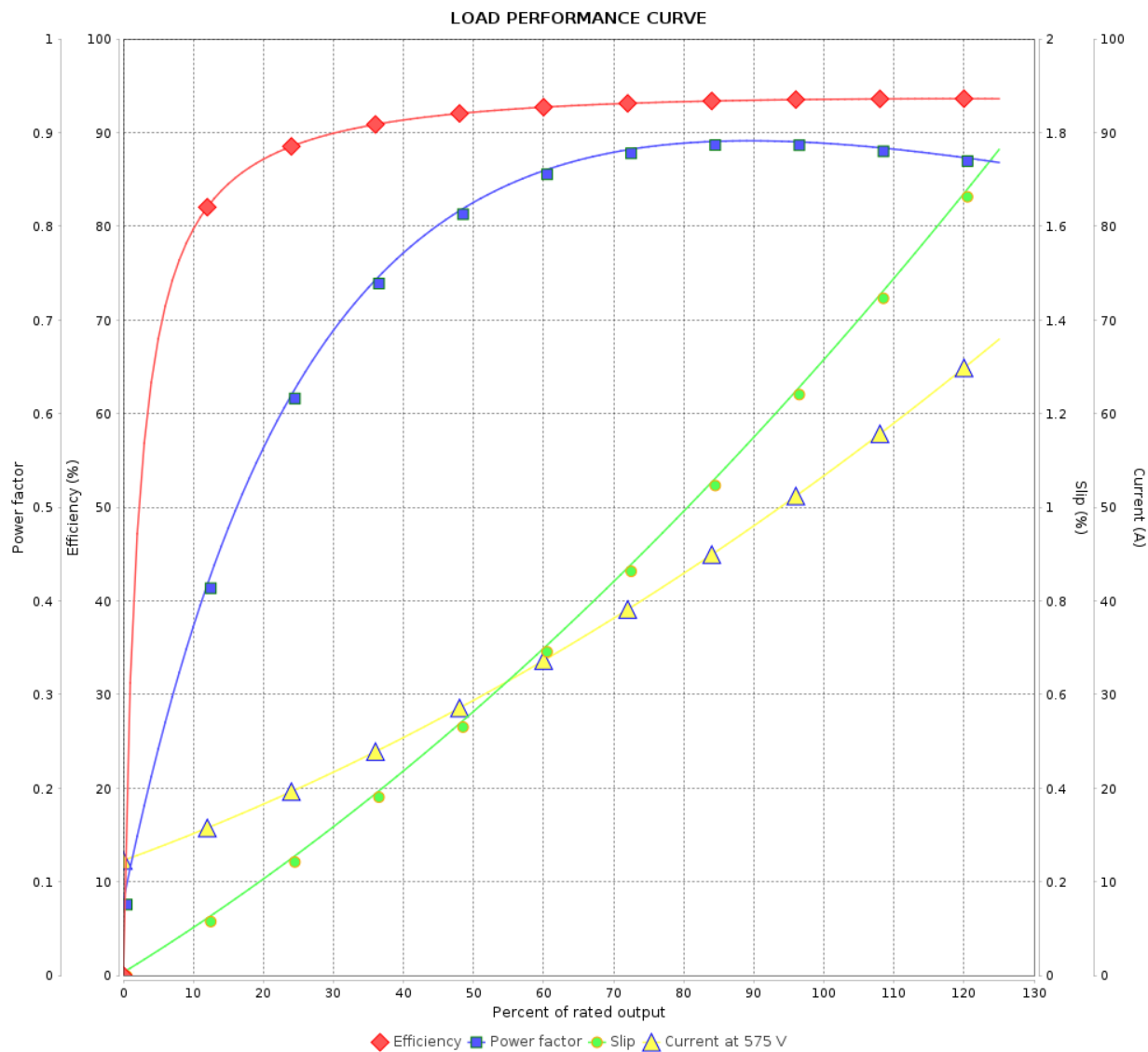
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 16957356



Performance : 575 V 60 Hz 2P

Rated current : 54.2 A
LRC : 6.5
Rated torque : 12.3 kgfm
Locked rotor torque : 200 %
Breakdown torque : 240 %
Rated speed : 3552 rpm

Moment of inertia (J) : 0.4198 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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