

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting High Efficiency Three-Phase Product code : 16122659

Frame	: 63	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B35L(E)
Duty cycle	: S1	Rotation ¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 3.8 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0001 kgm ²
Design	: N		

Output [HP]	0.25	0.25	0.25
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	380	415
Rated current [A]	1.01/0.504	0.518	0.550
L. R. Amperes [A]	5.04/2.52	2.28	2.42
LRC [A]	5.0	4.4	4.4
No load current [A]	0.900/0.450	0.430	0.540
Rated speed [RPM]	3400	2735	2780
Slip [%]	5.56	8.83	7.33
Rated torque [kgfm]	0	0	0
Locked rotor torque [%]	320	220	270
Breakdown torque [%]	350	229	280
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)
Noise level ²	56.0 dB(A)	52.0 dB(A)	52.0 dB(A)
Efficiency (%)	25%		
	50%	55.0	60.0
	75%	62.0	64.0
	100%	64.0	66.0
Power Factor	25%		
	50%	0.48	0.58
	75%	0.60	0.70
	100%	0.70	0.80

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	49.0	44.9	46.9
	P2 (0,5;1,0)	34.6	31.7	33.2
	P3 (0,25;1,0)	39.1	35.8	37.4
	P4 (0,9;0,5)	38.9	35.6	37.2
	P5 (0,5;0,5)	23.9	21.9	22.9
	P6 (0,5;0,25)	22.7	20.8	21.8
	P7 (0,25;0,25)	14.6	13.4	14.0

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6201 ZZ	6201 ZZ	Max. traction : 4 kgf
Sealing	: Oil Seal	Oil Seal	Max. compression : 10 kgf
Lubrication interval	: -	-	
Lubricant amount	: -	-	
Lubricant type	: Mobil Polyrex EM		

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.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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Customer : _____

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LOAD PERFORMANCE CURVE

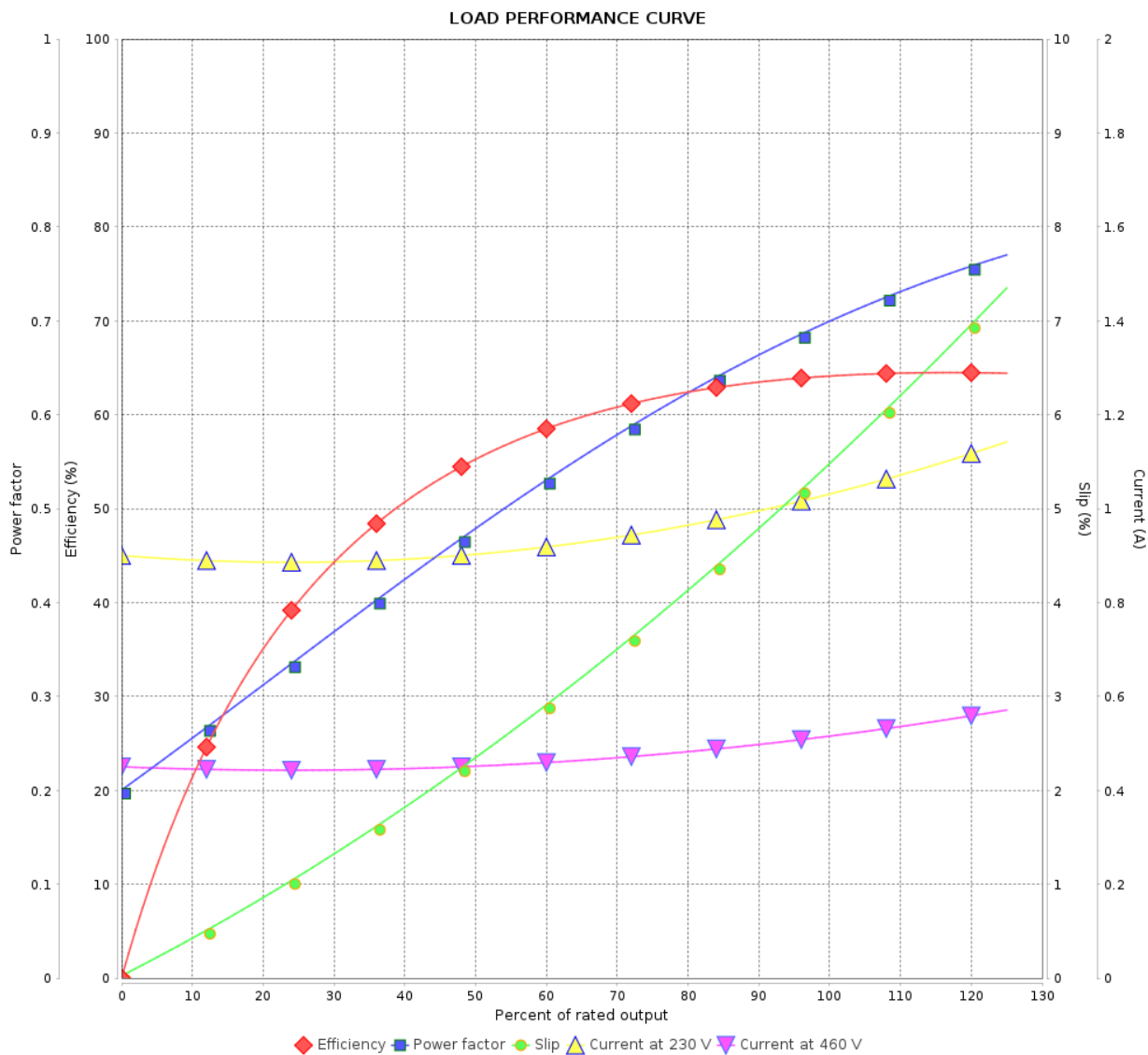
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Customer :

Product line : Multimounting High Efficiency
Three-Phase

Product code : 16122659



Performance : 230/460 V 60 Hz 2P

Rated current : 1.01/0.504 A
LRC : 5.0
Rated torque : 0 kgfm
Locked rotor torque : 320 %
Breakdown torque : 350 %
Rated speed : 3400 rpm

Moment of inertia (J) : 0.0001 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : N

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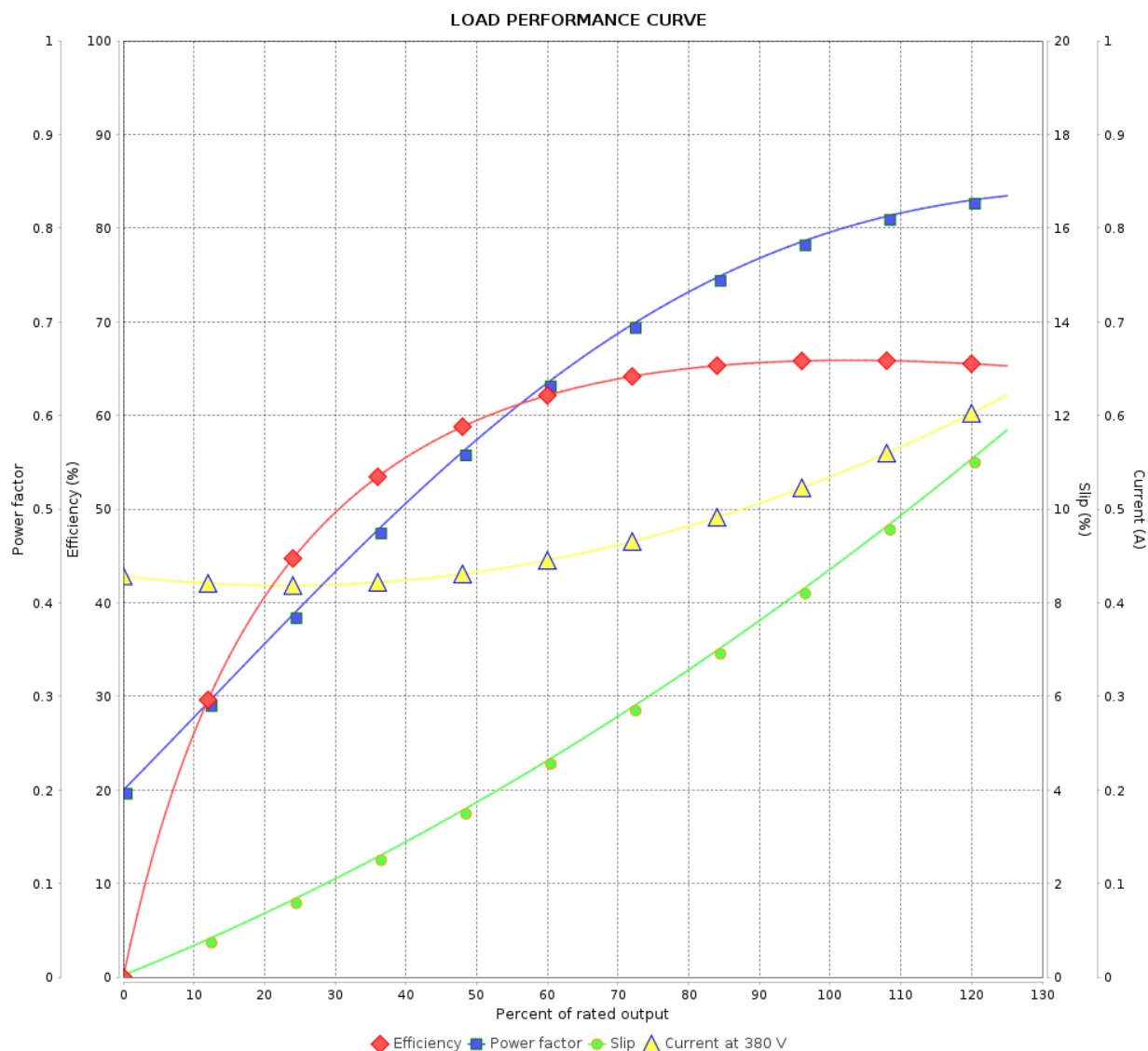
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting High Efficiency
Three-Phase

Product code : 16122659



Performance : 380 V 50 Hz 2P

Rated current : 0.518 A
LRC : 4.4
Rated torque : 0 kgfm
Locked rotor torque : 220 %
Breakdown torque : 229 %
Rated speed : 2735 rpm

Moment of inertia (J) : 0.0001 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : N

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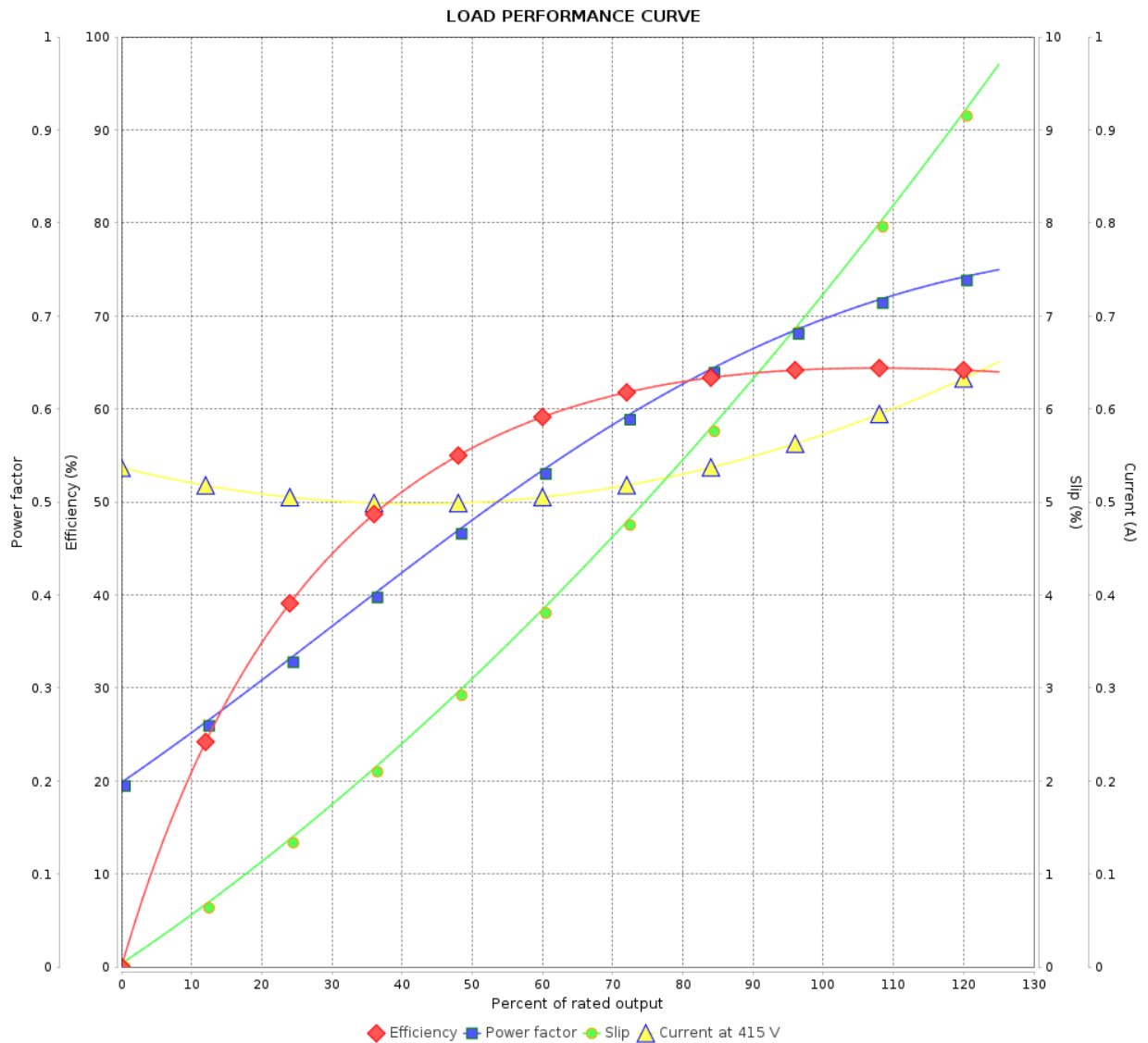
Three Phase Induction Motor - Squirrel Cage



Customer :

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Three-Phase

Product code : 16122659



Performance : 415 V 50 Hz 2P

Rated current	: 0.550 A	Moment of inertia (J)	: 0.0001 kgm ²
LRC	: 4.4	Duty cycle	: S1
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2780 rpm	Design	: N

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