

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General High Efficiency Three-Phase Product code : 11074488

Frame : 182TC	Cooling method : IC01 - ODP
Insulation class : F	Mounting : F-1
Duty cycle : Cont.(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 : 27.8 kg
Protection degree : IP21	Moment of inertia (J) : 0.0054 kgm ²
Design : B	

Output [HP]	5	5	5	5
Poles	2	2	2	2
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	12.5/6.24	7.74	7.39	7.30
L. R. Amperes [A]	88.6/44.3	43.3	45.8	48.2
LRC [A]	7.1x(Code H)	5.6x(Code G)	6.2x(Code H)	6.6x(Code H)
No load current [A]	5.60/2.80	2.70	3.30	3.80
Rated speed [RPM]	3510	2875	2890	2900
Slip [%]	2.50	4.17	3.67	3.33
Rated torque [kgfm]	1.03	1.26	1.26	1.25
Locked rotor torque [%]	180	150	160	180
Breakdown torque [%]	290	210	240	260
Service factor	1.15	1.00	1.00	1.00
Temperature rise	105 K	105 K	105 K	105 K
Locked rotor time	21s (cold) 12s (hot)	28s (cold) 16s (hot)	25s (cold) 14s (hot)	21s (cold) 12s (hot)
Noise level ²	64.0 dB(A)			
Efficiency (%)	25%			
	50%	85.5	82.5	82.5
	75%	86.5	84.0	84.0
	100%	86.5	82.5	84.0
Power Factor	25%			
	50%	0.70	0.76	0.66
	75%	0.80	0.85	0.79
	100%	0.86	0.88	0.84

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6206 ZZ	6205 ZZ	Max. traction : 54 kgf
Sealing :	Without	Without	Max. compression : 82 kgf
	Bearing Seal	Bearing Seal	
Lubrication interval :	-	-	
Lubricant amount :	-	-	
Lubricant type :	Mobil Polyrex EM		

Notes
USABLE @208V 13.6A SF 1.15 SFA 15.7A

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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Revision

LOAD PERFORMANCE CURVE

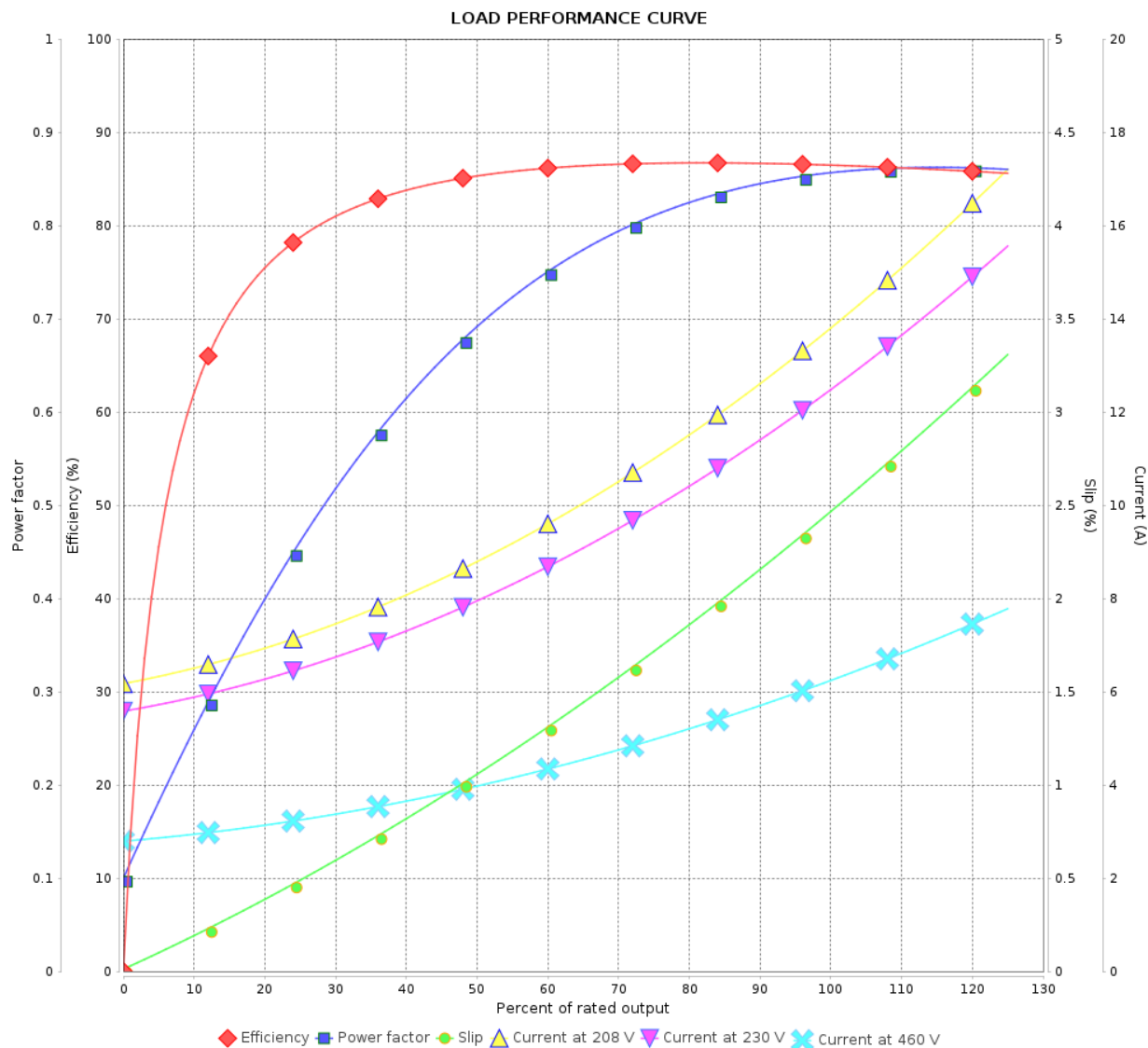
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General High Efficiency Three-Phase

Product code : 11074488



Performance : 230/460 V 60 Hz 2P

Rated current : 12.5/6.24 A
LRC : 7.1
Rated torque : 1.03 kgfm
Locked rotor torque : 180 %
Breakdown torque : 290 %
Rated speed : 3510 rpm

Moment of inertia (J) : 0.0054 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 105 K
Design : B

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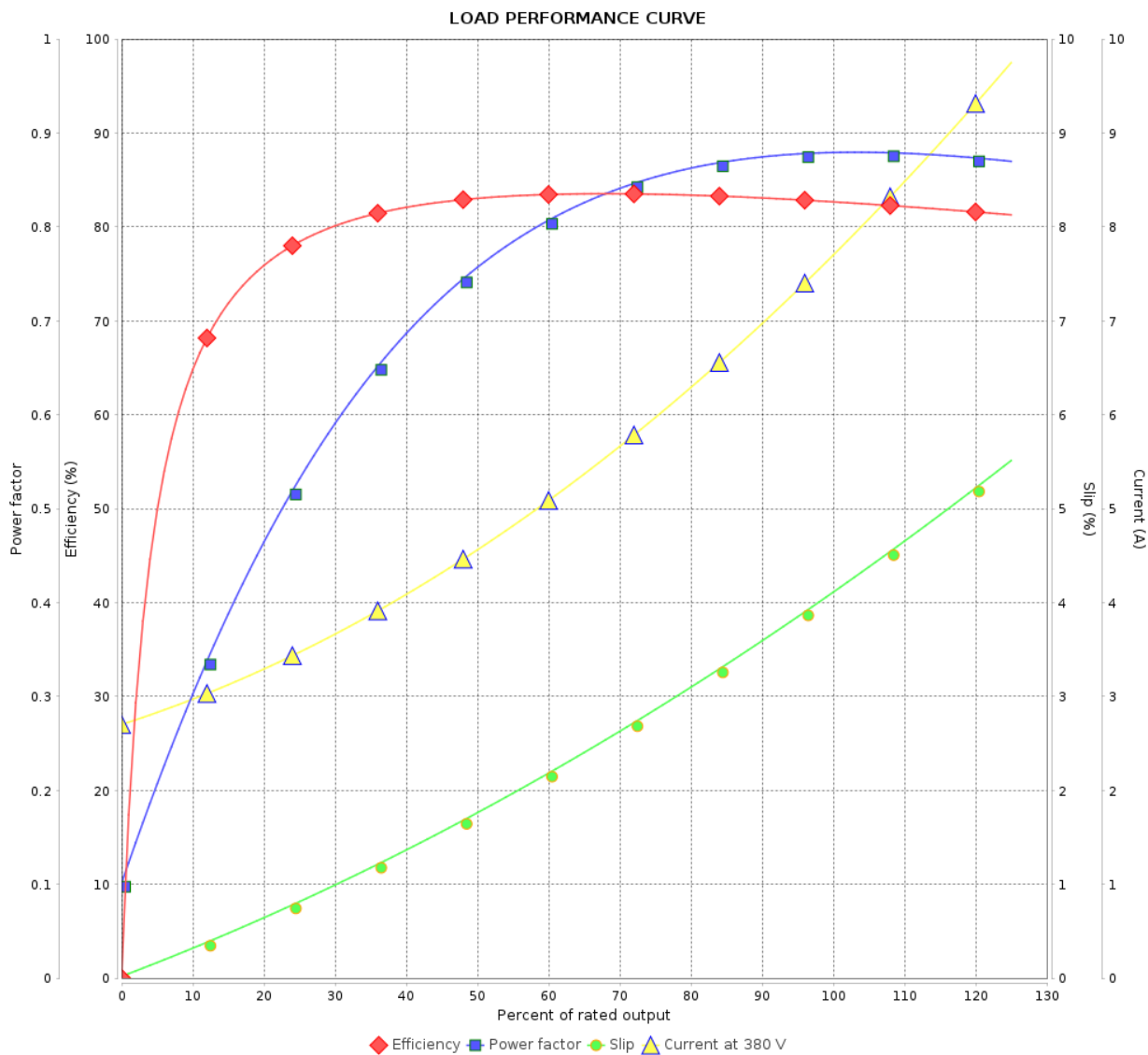
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General High Efficiency Three-Phase

Product code : 11074488



Performance : 380 V 50 Hz 2P

Rated current : 7.74 A
LRC : 5.6
Rated torque : 1.26 kgfm
Locked rotor torque : 150 %
Breakdown torque : 210 %
Rated speed : 2875 rpm

Moment of inertia (J) : 0.0054 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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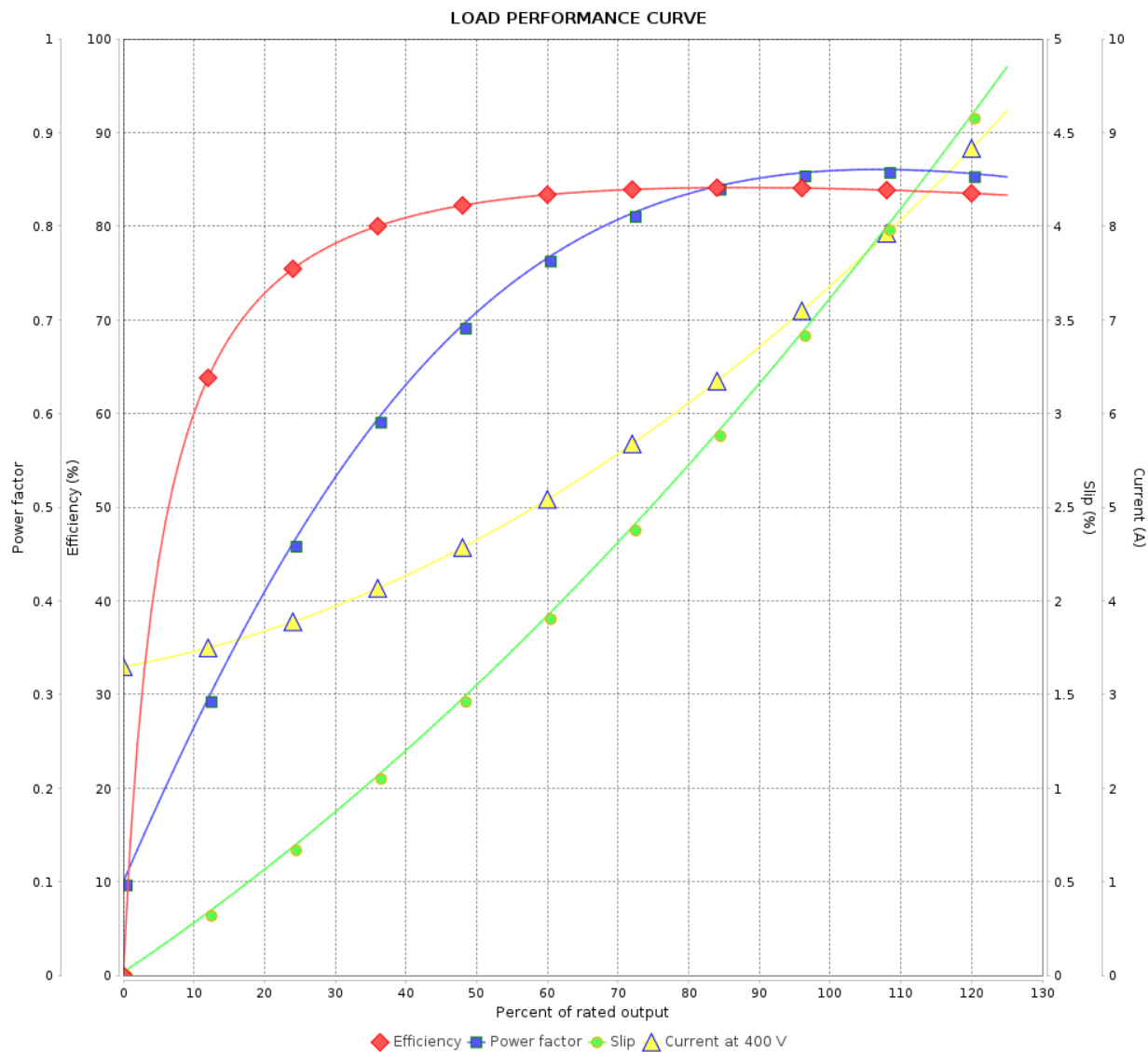
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General High Efficiency Three-Phase

Product code : 11074488



Performance : 400 V 50 Hz 2P IE1

Rated current : 7.39 A
LRC : 6.2
Rated torque : 1.26 kgfm
Locked rotor torque : 160 %
Breakdown torque : 240 %
Rated speed : 2890 rpm

Moment of inertia (J) : 0.0054 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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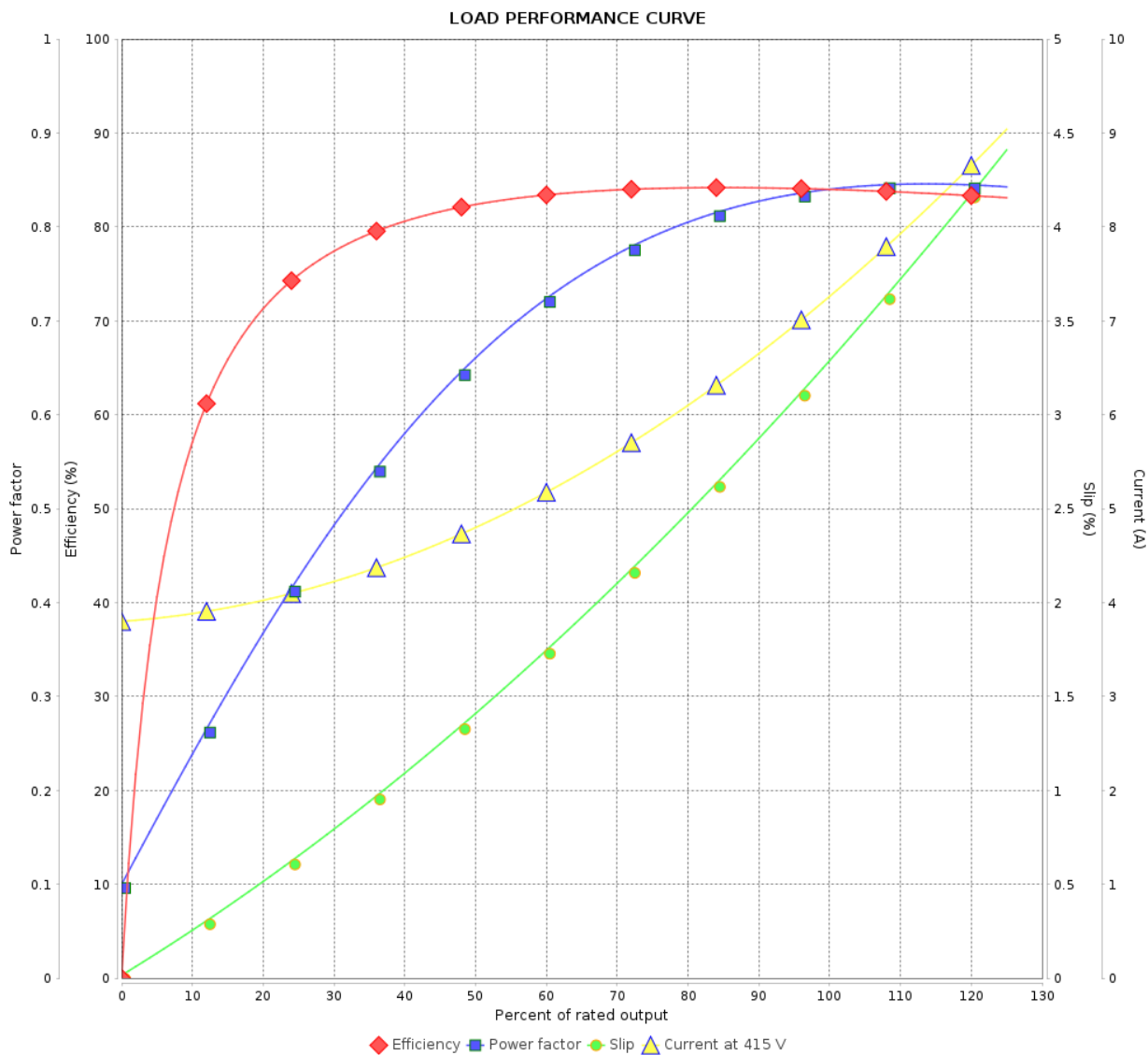
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General High Efficiency Three-Phase

Product code : 11074488



Performance : 415 V 50 Hz 2P IE1

Rated current : 7.30 A
LRC : 6.6
Rated torque : 1.25 kgfm
Locked rotor torque : 180 %
Breakdown torque : 260 %
Rated speed : 2900 rpm

Moment of inertia (J) : 0.0054 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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