

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12675402

Frame	: 182/4T	Cooling method	: IC411 - TEFC
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	: 38.2 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0169 kgm ²
Design	: B		

Output [HP]	3	3	3
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	7.62/3.81	9.08/4.54	8.30/4.40
L. R. Amperes [A]	67.1/33.5	60.8/30.4	62.3/33.0
LRC [A]	8.8x(Code K)	6.7x(Code H)	7.5x(Code J)
No load current [A]	4.00/2.00	3.95/1.97	3.99/2.11
Rated speed [RPM]	1765	1455	1460
Slip [%]	1.94	3.00	2.67
Rated torque [kgfm]	1.23	1.50	1.49
Locked rotor torque [%]	220	170	200
Breakdown torque [%]	300	260	290
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	32s (cold) 18s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	56.0 dB(A)	53.0 dB(A)	53.0 dB(A)
Efficiency (%)	25%	86.4	87.8
	50%	87.5	87.2
	75%	88.5	87.9
	100%	89.5	87.0
Power Factor	25%	0.36	0.39
	50%	0.61	0.65
	75%	0.74	0.77
	100%	0.81	0.83

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6206 ZZ	6205 ZZ	Max. traction	: 71 kgf
Sealing	: V'Ring	Without Bearing Seal	Max. compression	: 109 kgf
Lubrication interval	: -	-		
Lubricant amount	: -	-		
Lubricant type	: Mobil Polyrex EM			

Notes

USABLE @208V 8.43A SF 1.00 SFA 8.43A

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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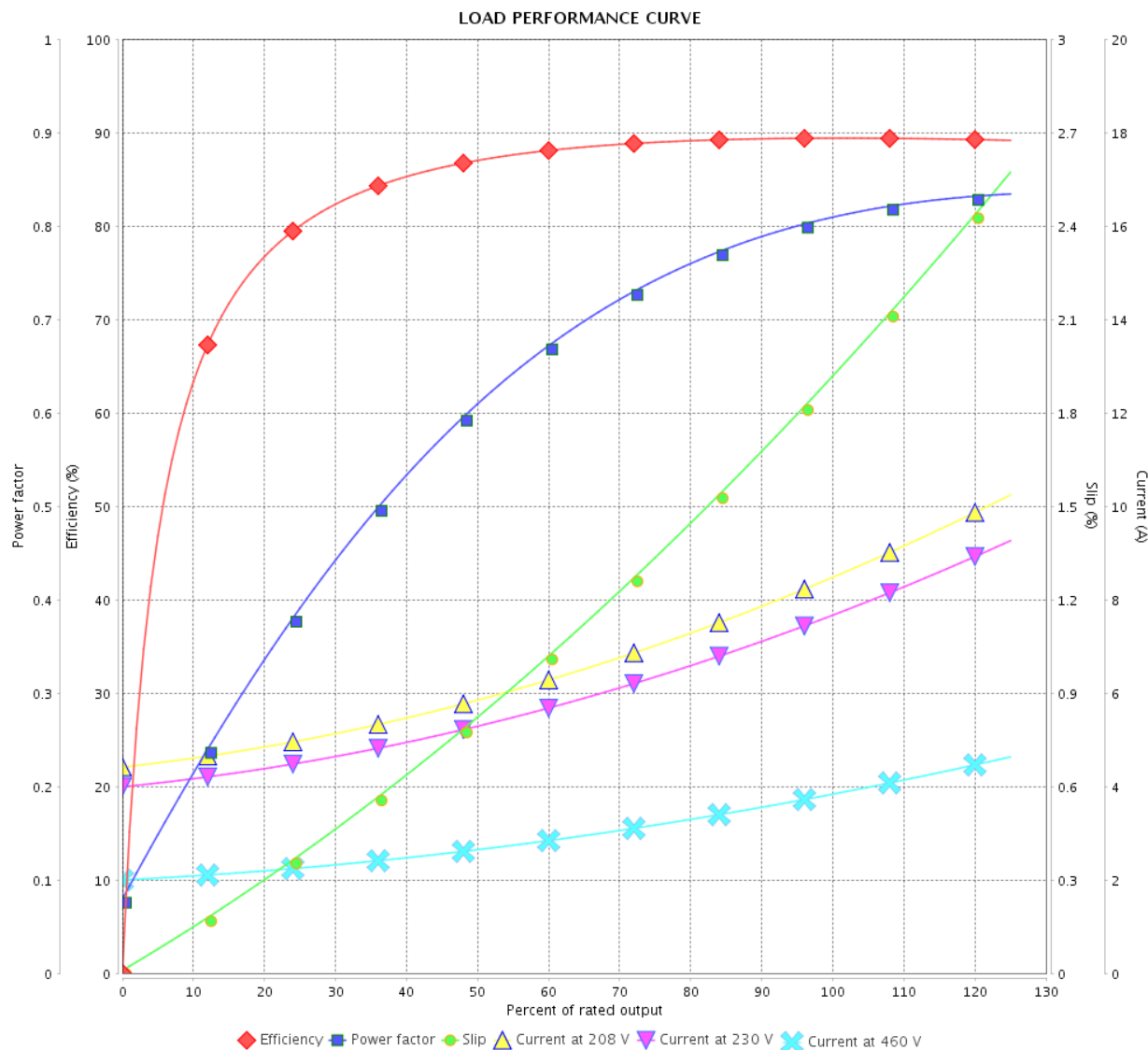
Customer :

Product line

: NEMA Premium Efficiency Three-Phase

Product code :

12675402



Performance : 230/460 V 60 Hz 4P

Rated current : 7.62/3.81 A
LRC : 8.8
Rated torque : 1.23 kgfm
Locked rotor torque : 220 %
Breakdown torque : 300 %
Rated speed : 1765 rpm

Moment of inertia (J) : 0.0169 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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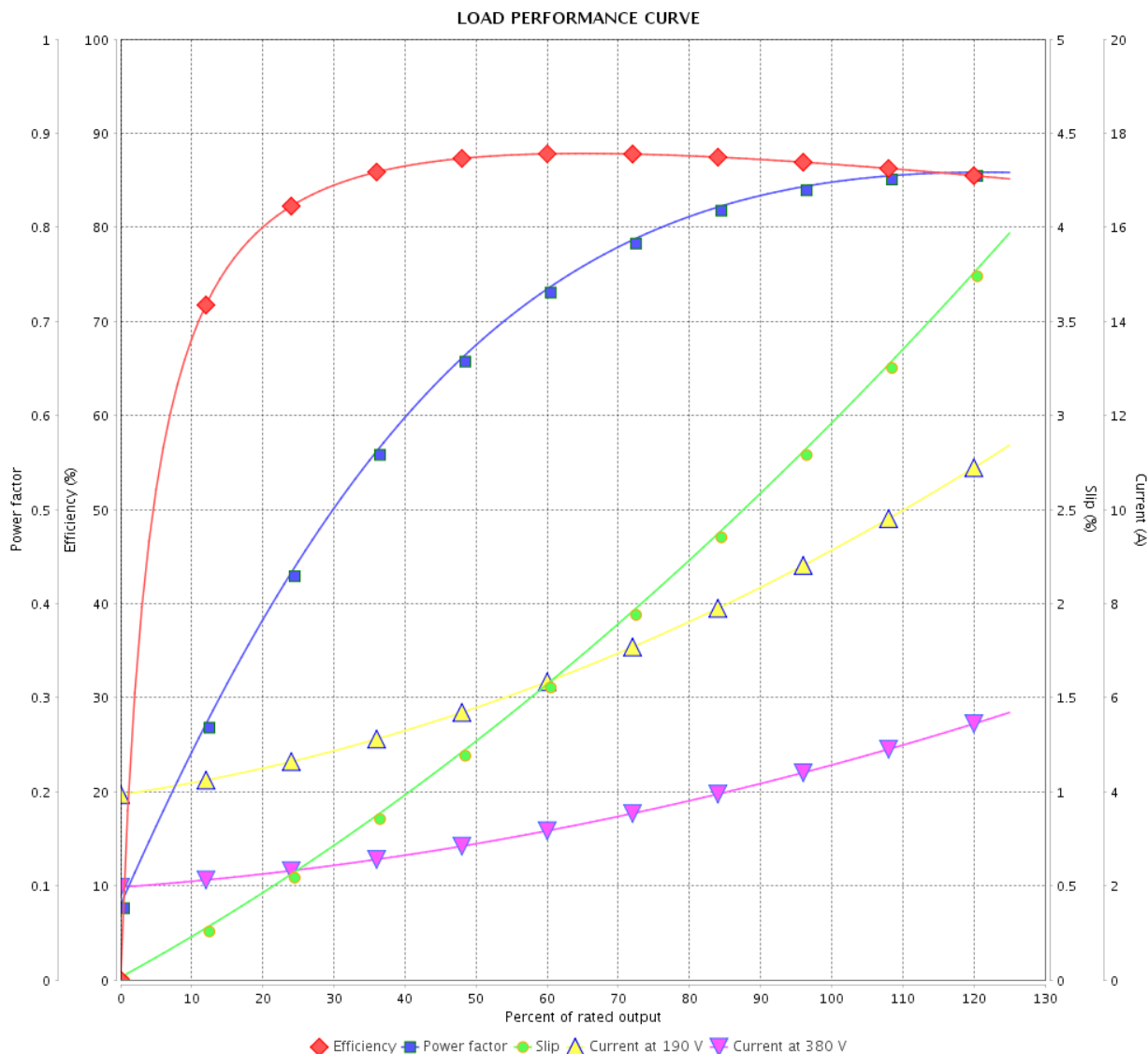
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12675402



Performance : 190/380 V 50 Hz 4P

Rated current : 9.08/4.54 A
 LRC : 6.7
 Rated torque : 1.50 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 260 %
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.0169 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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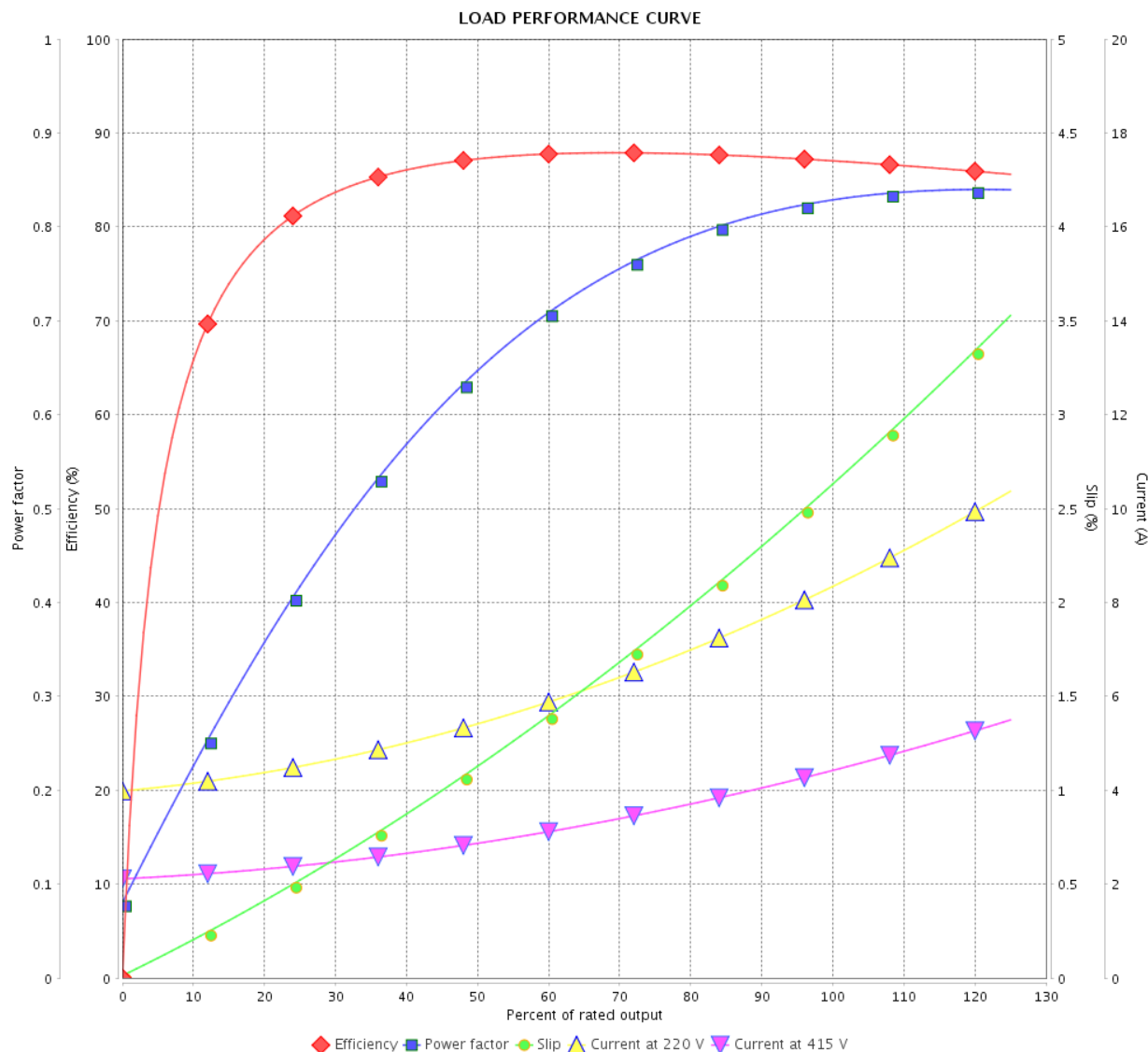
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12675402



Performance : 220/415 V 50 Hz 4P

Rated current : 8.30/4.40 A
LRC : 7.5
Rated torque : 1.49 kgfm
Locked rotor torque : 200 %
Breakdown torque : 290 %
Rated speed : 1460 rpm

Moment of inertia (J) : 0.0169 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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