

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12751166

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	: 30.9 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0066 kgm ²
Design	: B		

Output [HP]	3	3	3
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	7.34/3.67	8.70/4.35	7.81/4.14
L. R. Amperes [A]	64.6/32.3	60.0/30.0	59.4/31.5
LRC [A]	8.8x(Code K)	6.9x(Code H)	7.6x(Code J)
No load current [A]	3.22/1.61	3.18/1.59	3.22/1.71
Rated speed [RPM]	3515	2885	2900
Slip [%]	2.36	3.83	3.33
Rated torque [kgfm]	0.619	0.755	0.751
Locked rotor torque [%]	220	180	210
Breakdown torque [%]	300	280	310
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	39s (cold) 22s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%	83.6	86.0
	50%	84.0	85.9
	75%	86.5	86.8
	100%	86.5	86.1
Power Factor	25%	0.44	0.46
	50%	0.71	0.73
	75%	0.82	0.84
	100%	0.87	0.89

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6206 ZZ	6205 ZZ	Max. traction	: 33 kgf
Sealing	: V'Ring	Without Bearing Seal	Max. compression	: 64 kgf
Lubrication interval	: -	-		
Lubricant amount	: -	-		
Lubricant type	: Mobil Polyrex EM			

Notes

USABLE @208V 8.12A SF 1.00 SFA 8.12A

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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	13/05/2022			

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Revision

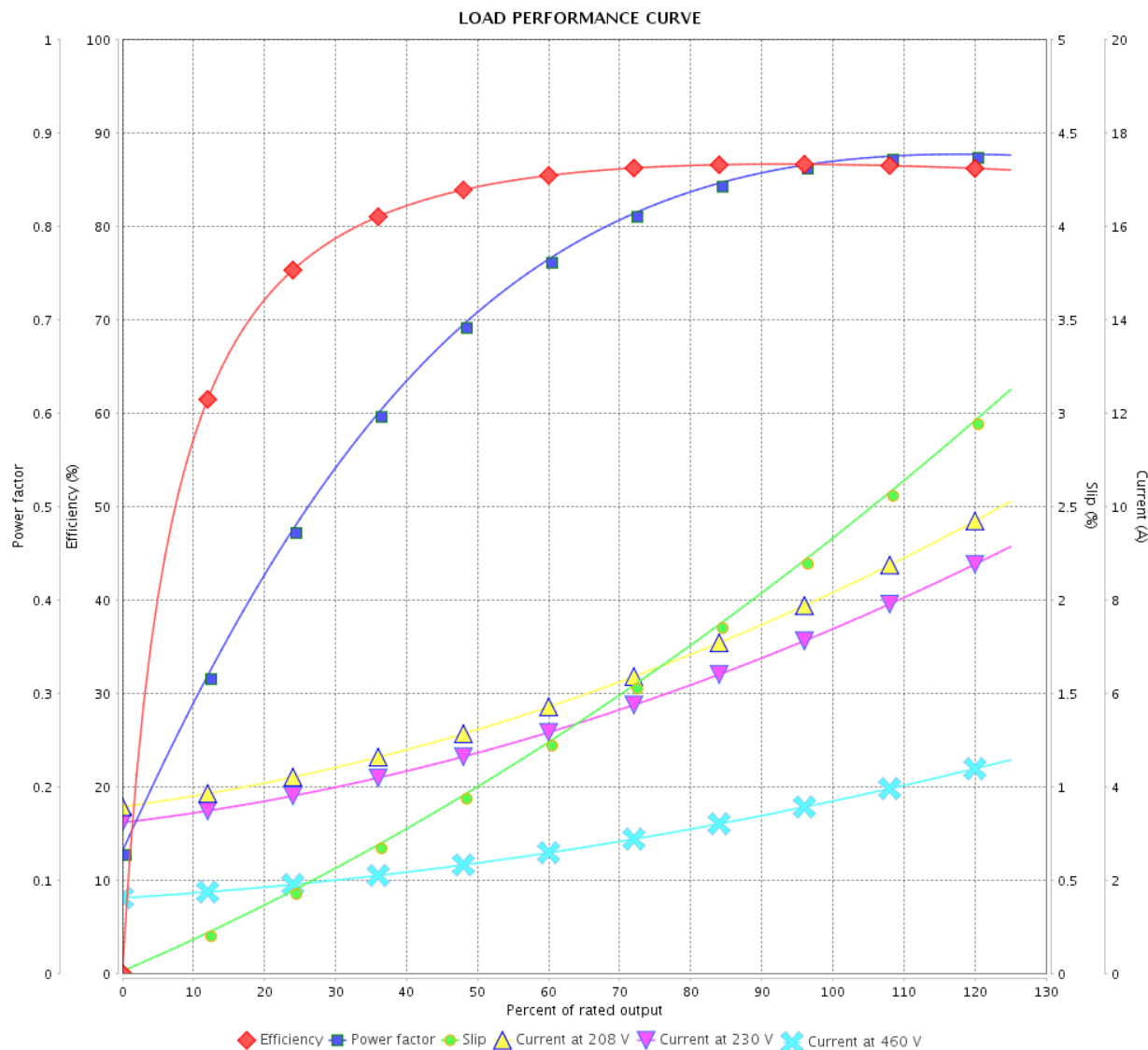
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Customer :

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Performance : 230/460 V 60 Hz 2P

Rated current : 7.34/3.67 A
 LRC : 8.8
 Rated torque : 0.619 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 300 %
 Rated speed : 3515 rpm

Moment of inertia (J) : 0.0066 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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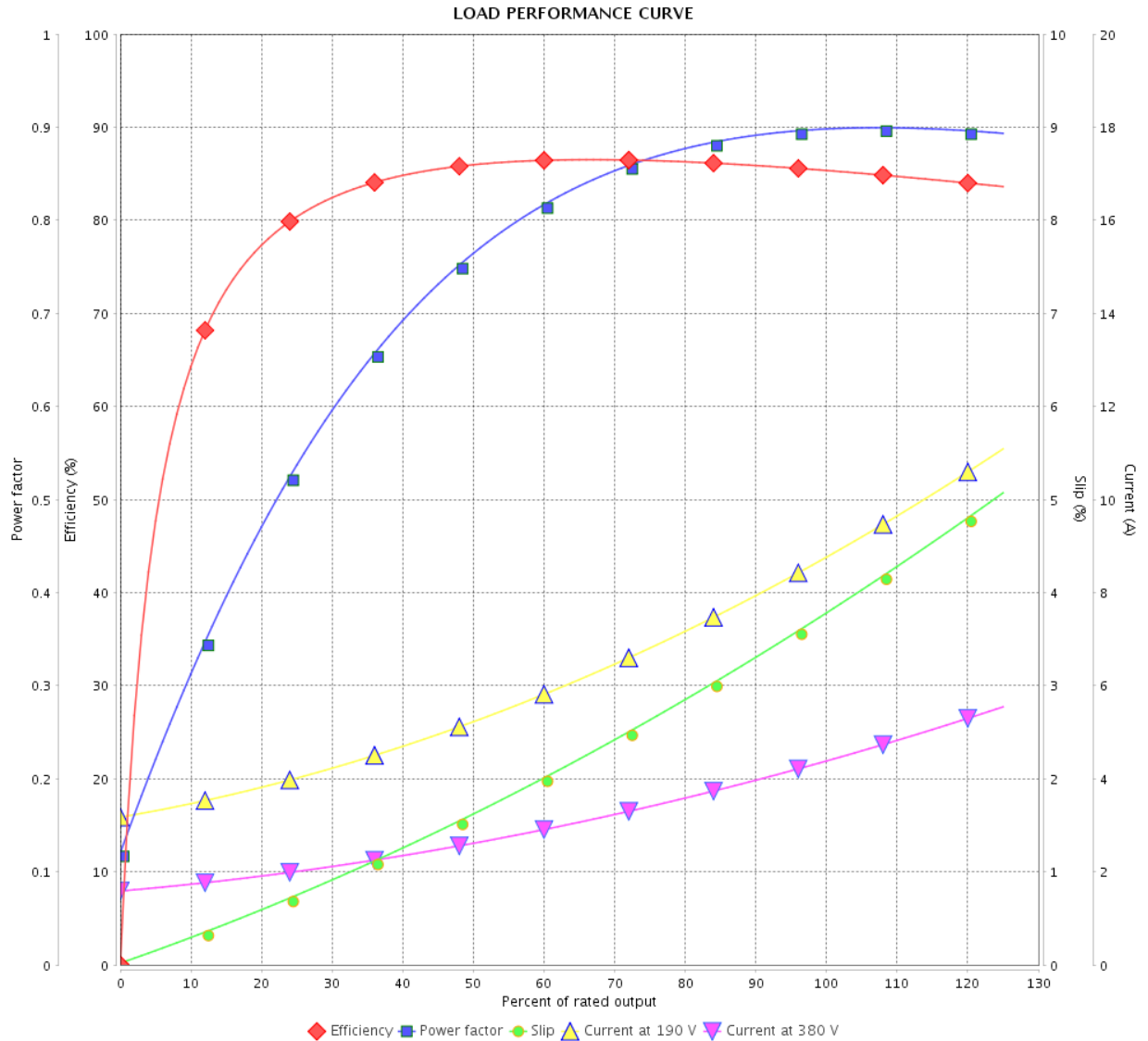
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12751166



Performance : 190/380 V 50 Hz 2P

Rated current : 8.70/4.35 A
 LRC : 6.9
 Rated torque : 0.755 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 280 %
 Rated speed : 2885 rpm

Moment of inertia (J) : 0.0066 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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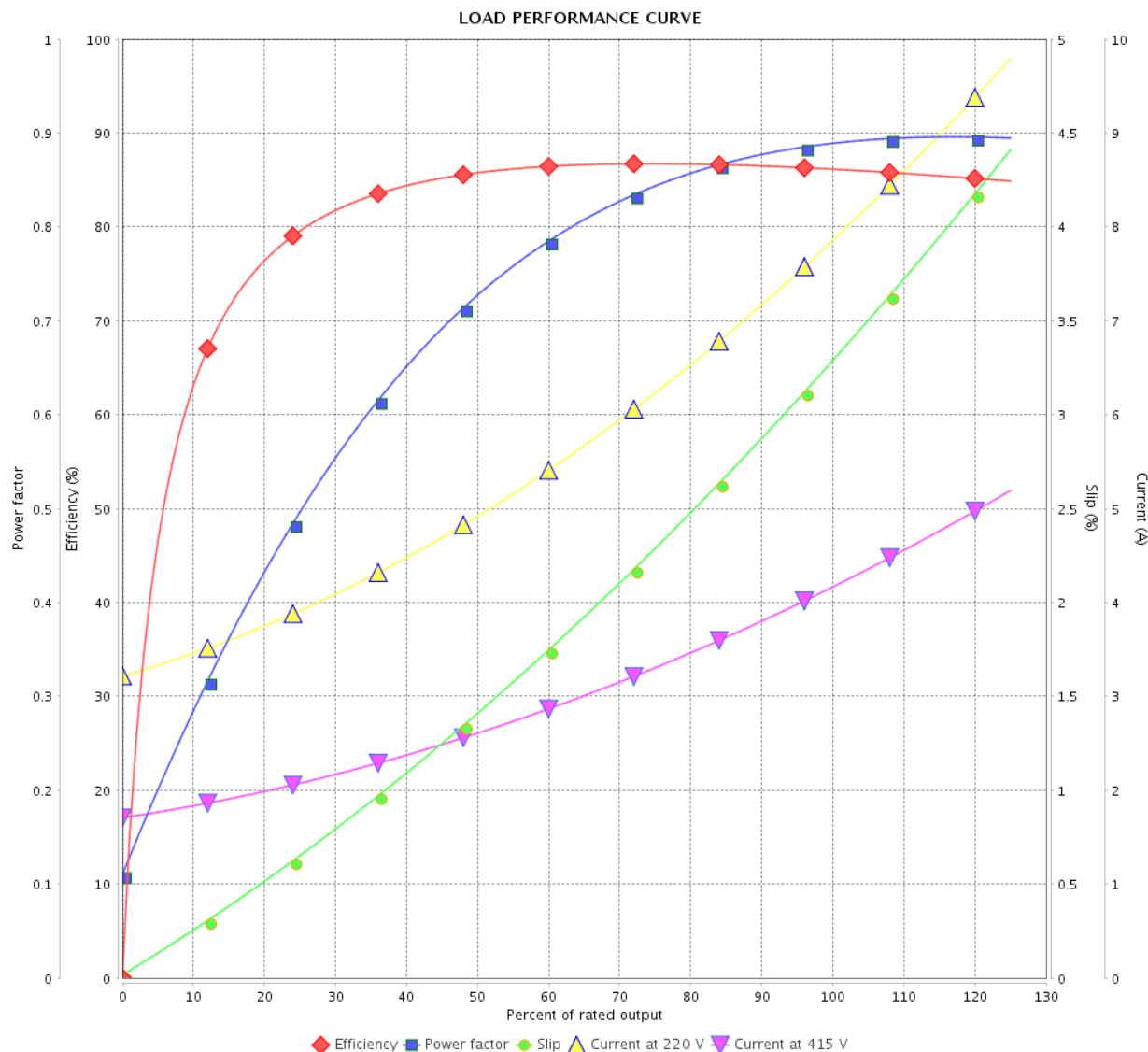
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12751166



Performance : 220/415 V 50 Hz 2P

Rated current : 7.81/4.14 A
 LRC : 7.6
 Rated torque : 0.751 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 310 %
 Rated speed : 2900 rpm

Moment of inertia (J) : 0.0066 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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