

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12707693

Frame	: 254/6T	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	: 81.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0367 kgm ²
Design	: B		

Output [HP]	15	12.5	12.5
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	34.8/17.4	35.4/17.7	32.3/17.1
L. R. Amperes [A]	237/118	244/122	245/130
LRC [A]	6.8x(Code G)	6.9x(Code H)	7.6x(Code J)
No load current [A]	13.0/6.50	13.6/6.80	13.9/7.39
Rated speed [RPM]	3525	2920	2930
Slip [%]	2.08	2.67	2.33
Rated torque [kgfm]	3.09	3.11	3.10
Locked rotor torque [%]	200	190	210
Breakdown torque [%]	300	290	330
Service factor	1.15	1.00	1.00
Temperature rise	80 K	105 K	105 K
Locked rotor time	25s (cold) 14s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	75.0 dB(A)	72.0 dB(A)	72.0 dB(A)
Efficiency (%)	25%	89.2	90.1
	50%	89.5	90.2
	75%	91.0	90.6
	100%	91.0	89.8
Power Factor	25%	0.47	0.43
	50%	0.73	0.70
	75%	0.83	0.81
	100%	0.87	0.88

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6309 Z C3	6208 Z C3	Max. traction : 120 kgf
Sealing	: V'Ring	Without Bearing Seal	Max. compression : 201 kgf
Lubrication interval	: 15797 h	20000 h	
Lubricant amount	: 13 g	8 g	
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 38.5A SF 1.00 SFA 38.5A

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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Performed by				
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Date	13/05/2022			

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Revision

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Three Phase Induction Motor - Squirrel Cage



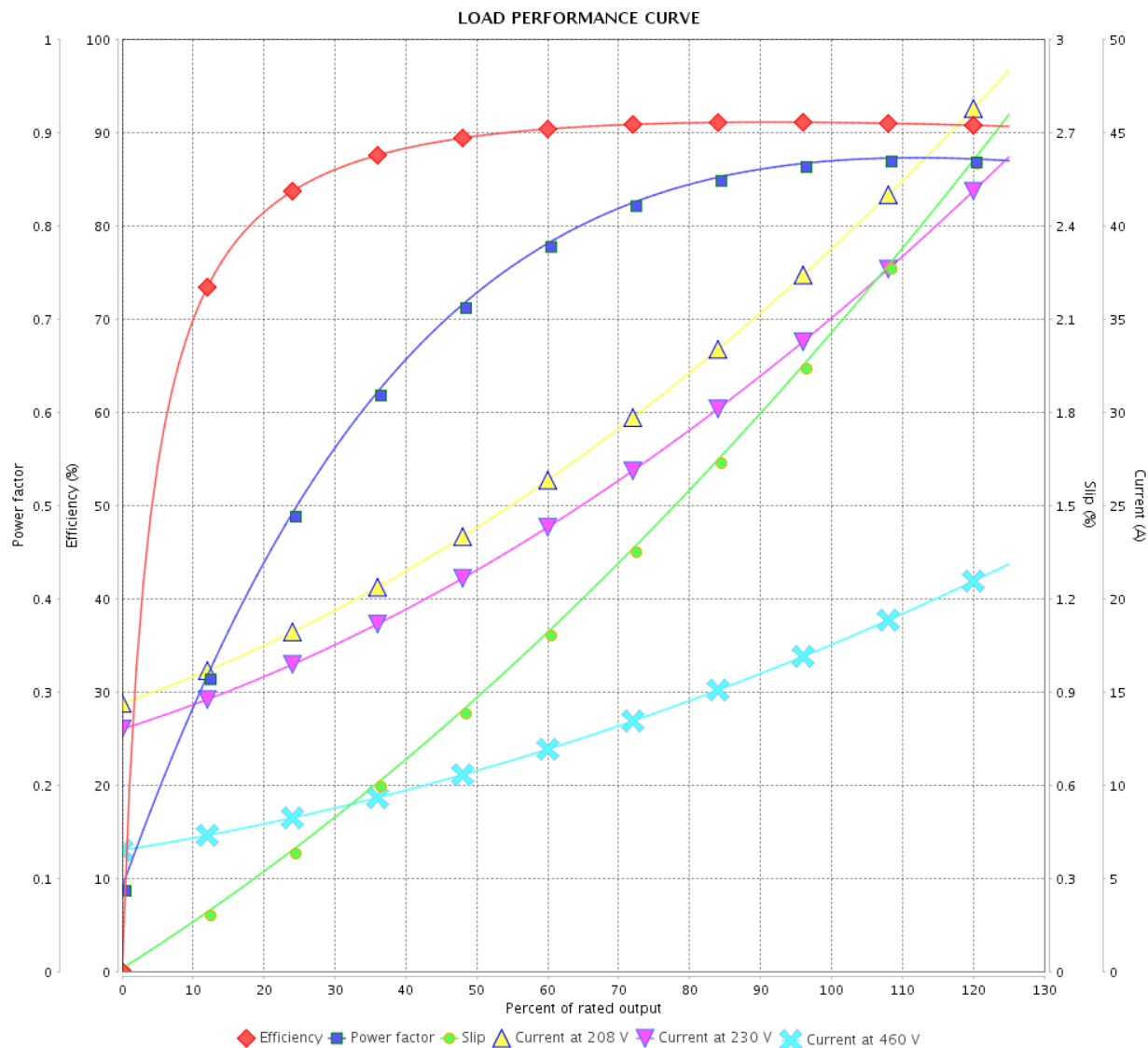
Customer :

Product line

: NEMA Premium Efficiency Three-Phase

Product code :

12707693



Performance : 230/460 V 60 Hz 2P

Rated current : 34.8/17.4 A
 LRC : 6.8
 Rated torque : 3.09 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 300 %
 Rated speed : 3525 rpm

Moment of inertia (J) : 0.0367 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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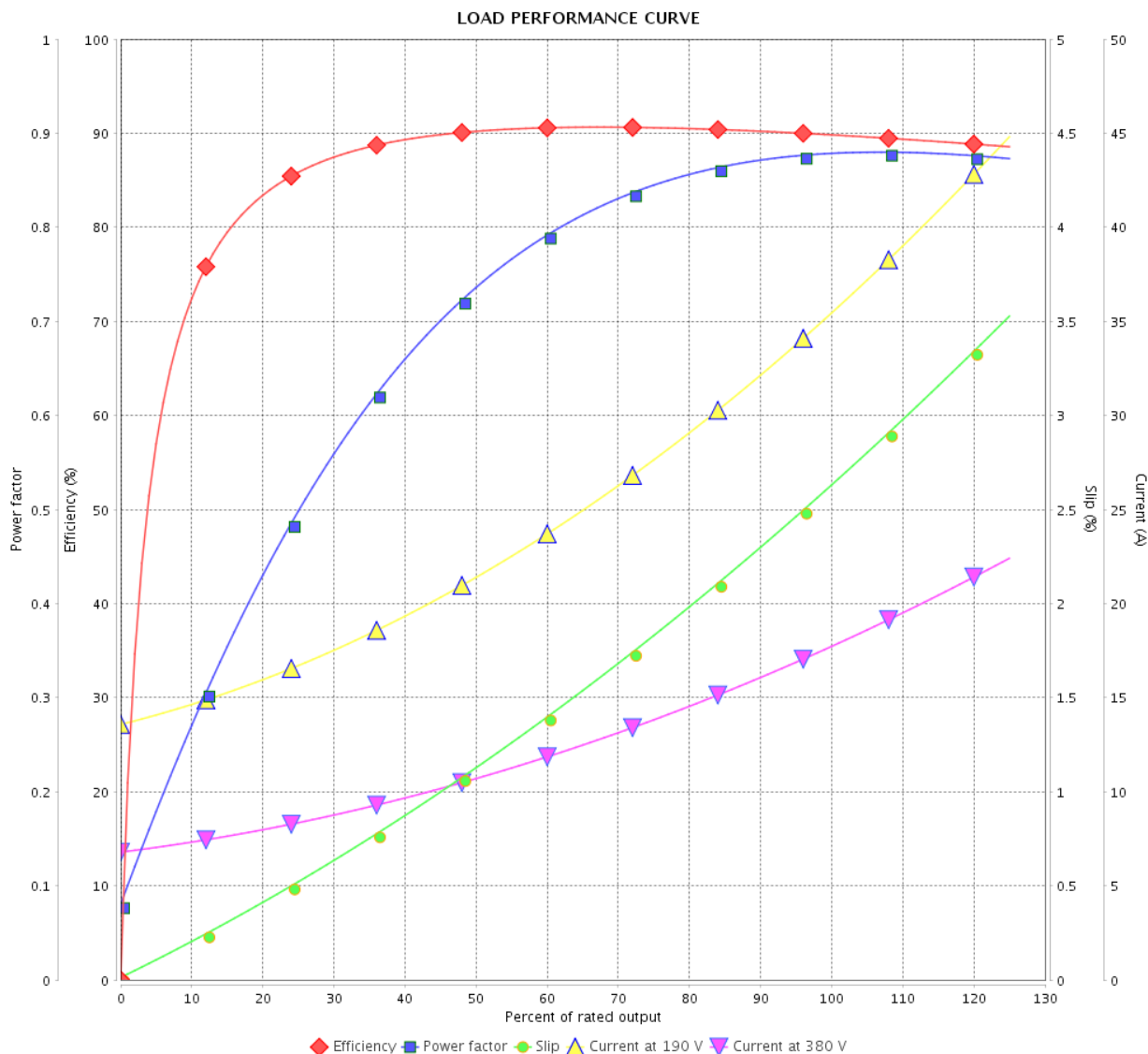
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12707693



Performance : 190/380 V 50 Hz 2P

Rated current : 35.4/17.7 A
 LRC : 6.9
 Rated torque : 3.11 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 290 %
 Rated speed : 2920 rpm

Moment of inertia (J) : 0.0367 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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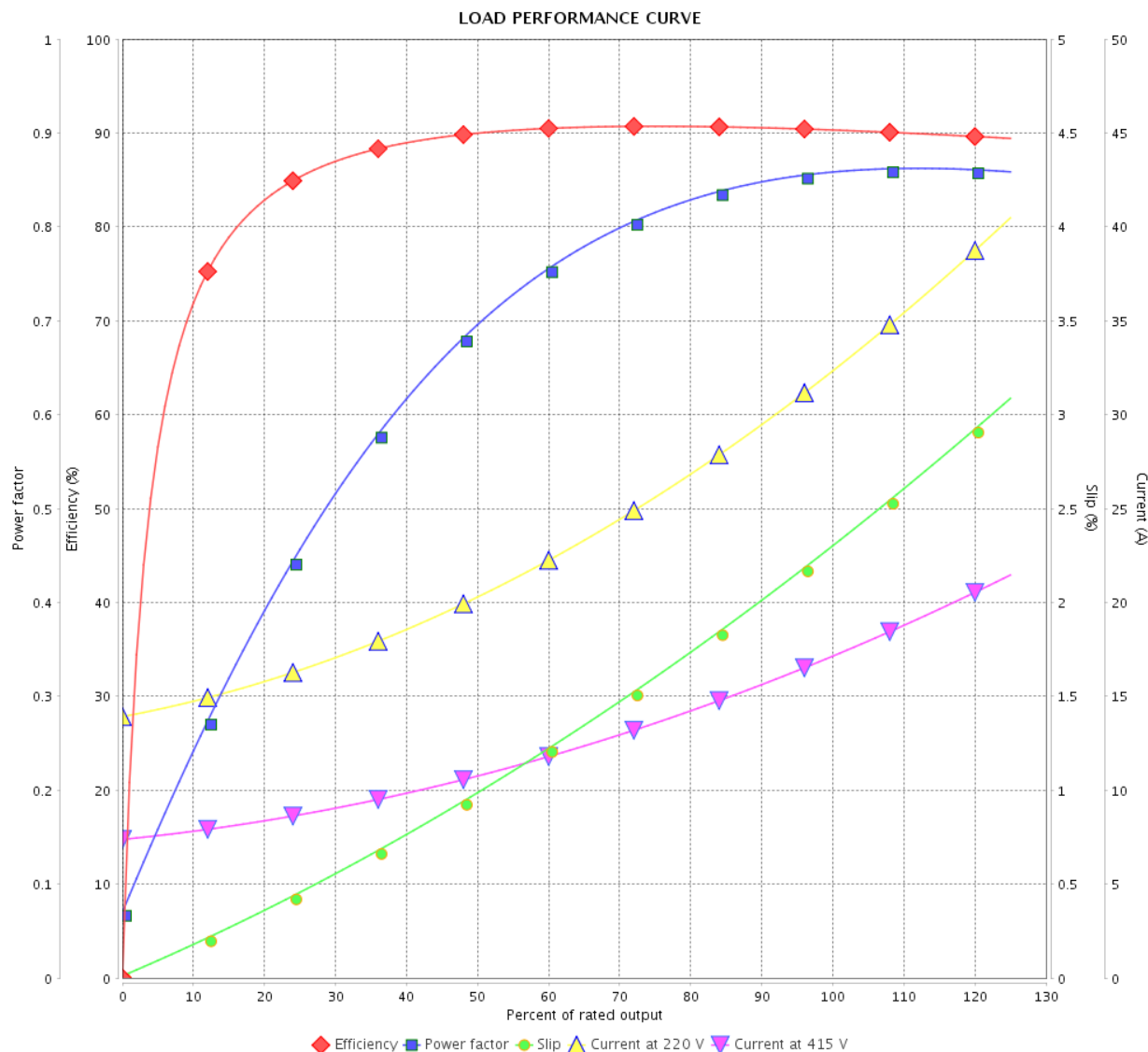
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12707693



Performance : 220/415 V 50 Hz 2P

Rated current : 32.3/17.1 A
 LRC : 7.6
 Rated torque : 3.10 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 330 %
 Rated speed : 2930 rpm

Moment of inertia (J) : 0.0367 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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