DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12837722

Frame	: 182/4TC	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]	: 36.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0081 kgm²
Design	: B		

Output [HP]		7.5	5.5	5.5
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190-220/380	415
Rated current [A]		17.5/8.76	15.5-13.4/7.73	7.29
L. R. Amperes [A]		135/67.5	133-115/66.5	71.4
LRC [A]		7.7x(Code J)	8.6x(Code J)	9.8x(Code L)
No load current [A]		6.07/3.04	6.00-5.18/3.00	3.55
Rated speed [RPM]		3475	2895	2910
Slip [%]		3.47	3.50	3.00
Rated torque [kgfm]		1	1	1
Locked rotor torque [%]		270	310	390
Breakdown torque [%]		360	380	470
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		37s (cold) 21s (hot)	41s (cold) 23s (hot)	39s (cold) 22s (hot)
Noise level[2]		68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%			
	50%	88.5	89.4	88.5
	75%	89.5	90.0	89.9
	100%	89.5	89.3	89.8
Power Factor	25%			
	50%	0.74	0.74	0.66
	75%	0.83	0.83	0.78
	100%	0.88	0.88	0.85

		Drive end	Non drive end
Bearing type	:	6206 ZZ	6205 ZZ
Sealing	:	V'Ring	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 114 kgf

Max. compression : 156 kgf

Notes

USABLE @208V 19.0A SF 1.00 SFA 19.0A

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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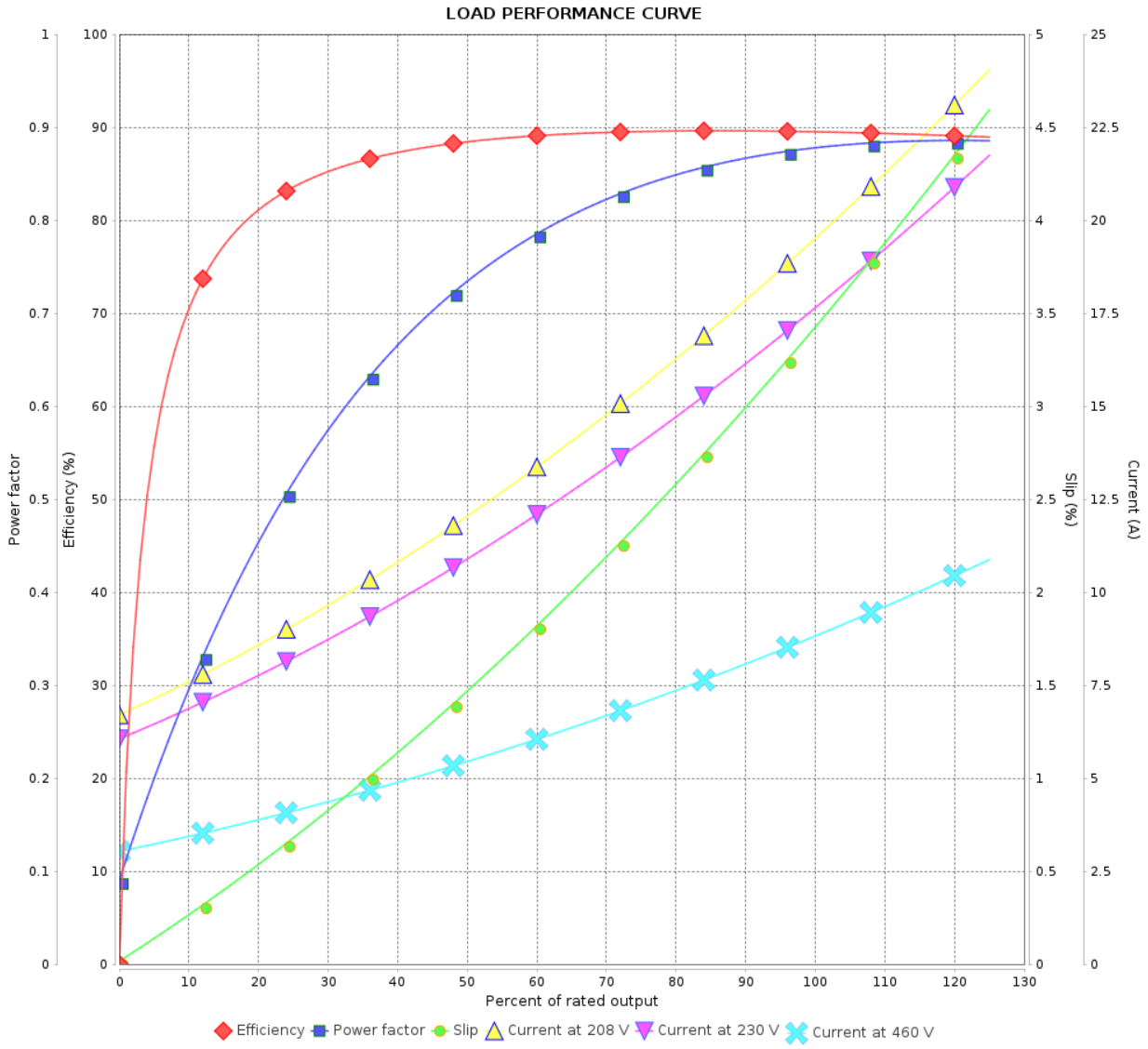
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12837722



Performance	: 230/460 V 60 Hz 2P

Rated current	: 17.5/8.76 A	Moment of inertia (J)	: 0.0081 kgm²
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 3475 rpm	Design	: B

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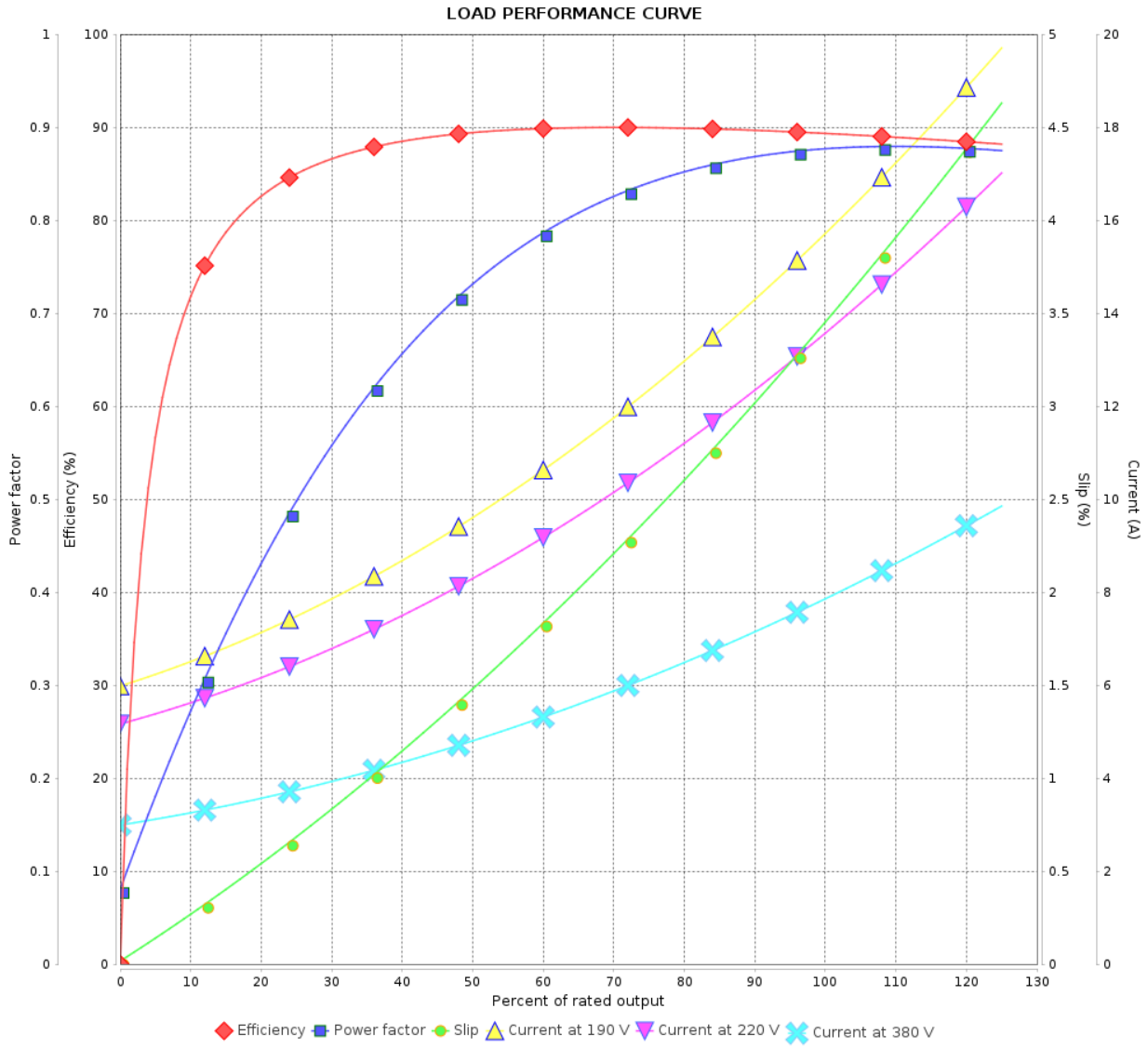
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase
Product code :	12837722



Performance	: 190-220/380 V 50 Hz 2P		
Rated current	: 15.5-13.4/7.73 A	Moment of inertia (J)	: 0.0081 kgm²
LRC	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.15
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 2895 rpm	Design	: B

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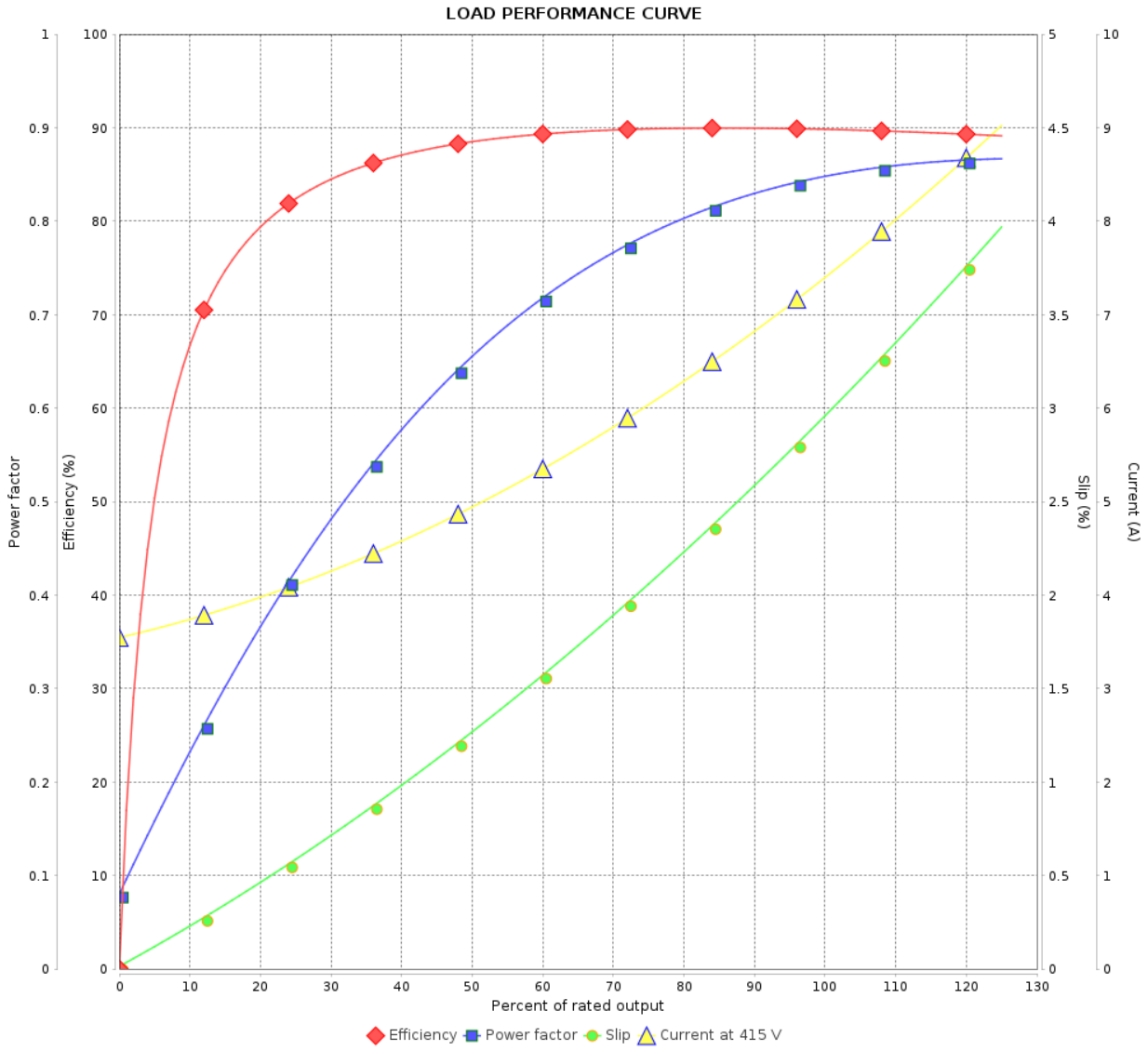
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12837722



Performance	: 415 V 50 Hz 2P

Rated current	: 7.29 A	Moment of inertia (J)	: 0.0081 kgm²
LRC	: 9.8	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 390 %	Service factor	: 1.15
Breakdown torque	: 470 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: B

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