DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12636592

Frame	: 254/6TC	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight³	: 103 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.1113 kgm²
Design	: B		

Output [HP]		20	15	15
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190-220/380	415
Rated current [A]		49.4/24.7	44.4-38.3/22.2	21.6
L. R. Amperes [A]		331/165	329-284/164	184
LRC [A]		6.7x(Code H)	7.4x(Code J)	8.5x(Code K)
No load current [A]		22.2/11.1	21.9-18.9/10.9	12.8
Rated speed [RPM]		1765	1470	1475
Slip [%]		1.94	2.00	1.67
Rated torque [kgfm]		8	7	7
Locked rotor torque [%]		270	270	340
Breakdown torque [%]		300	320	390
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		28s (cold) 16s (hot)	36s (cold) 20s (hot)	28s (cold) 16s (hot)
Noise level²		68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%			
	50%	91.7	91.6	90.5
	75%	92.4	92.2	91.8
	100%	93.0	91.8	91.9
Power Factor	25%			
	50%	0.66	0.63	0.55
	75%	0.77	0.75	0.68
	100%	0.82	0.82	0.77

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	7.2	8.3	8.5
	P2 (0,5;1,0)	5.8	6.7	6.8
	P3 (0,25;1,0)	5.4	6.2	6.3
	P4 (0,9;0,5)	4.3	4.9	5.0
	P5 (0,5;0,5)	2.9	3.4	3.4
	P6 (0,5;0,25)	2.3	2.6	2.7
	P7 (0,25;0,25)	1.7	1.9	1.9

		Drive end	Non drive end
Bearing type	:	6309 Z C3	6208 Z C3
Sealing	:	V'Ring	Without Bearing Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	8 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 394 kgf

Max. compression : 511 kgf

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).

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Notes
USABLE @208V 54.6A SF 1.00 SFA 54.6A

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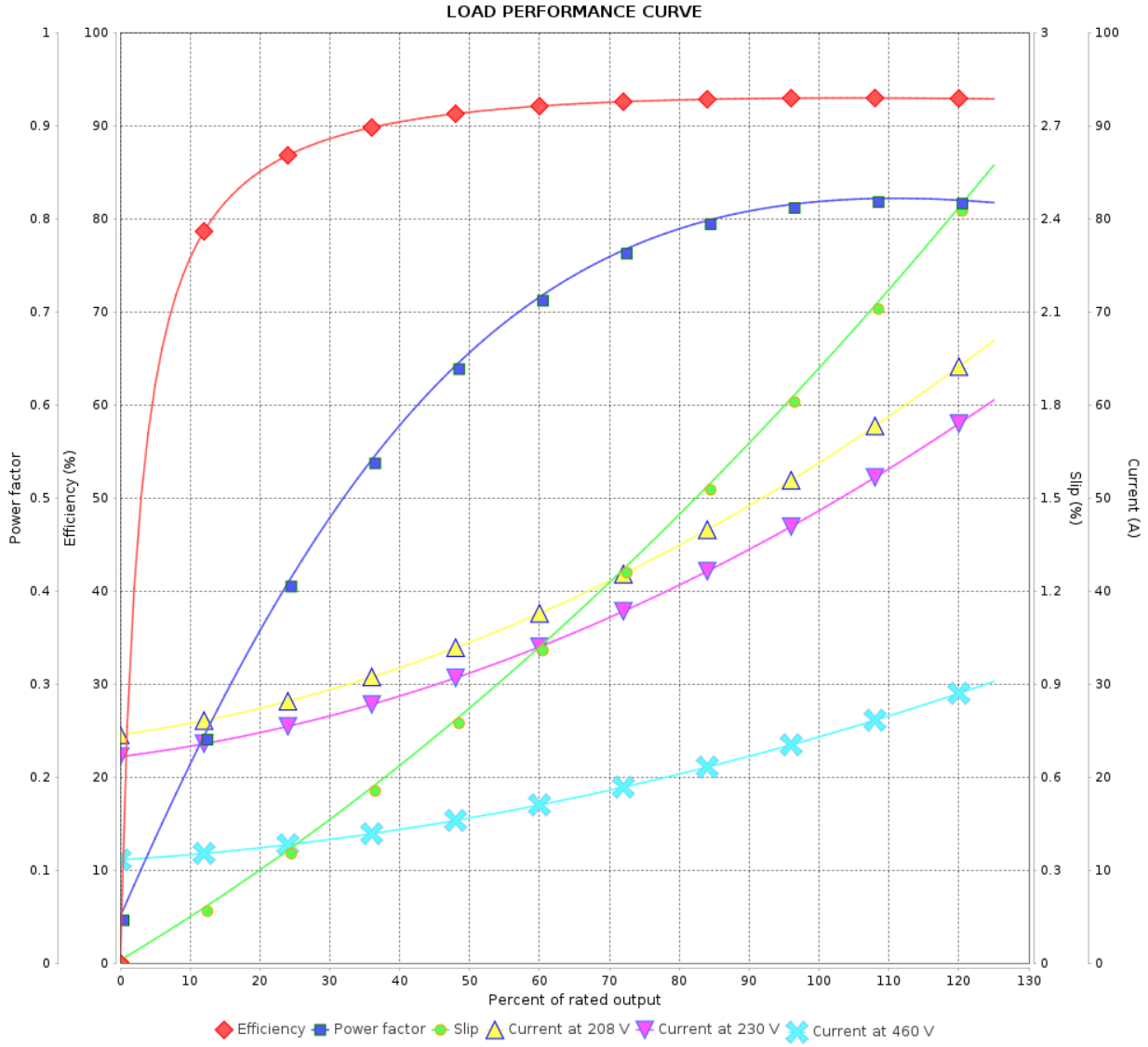
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase

Product code : 12636592



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 49.4/24.7 A	Moment of inertia (J)	: 0.1113 kgm²
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 8 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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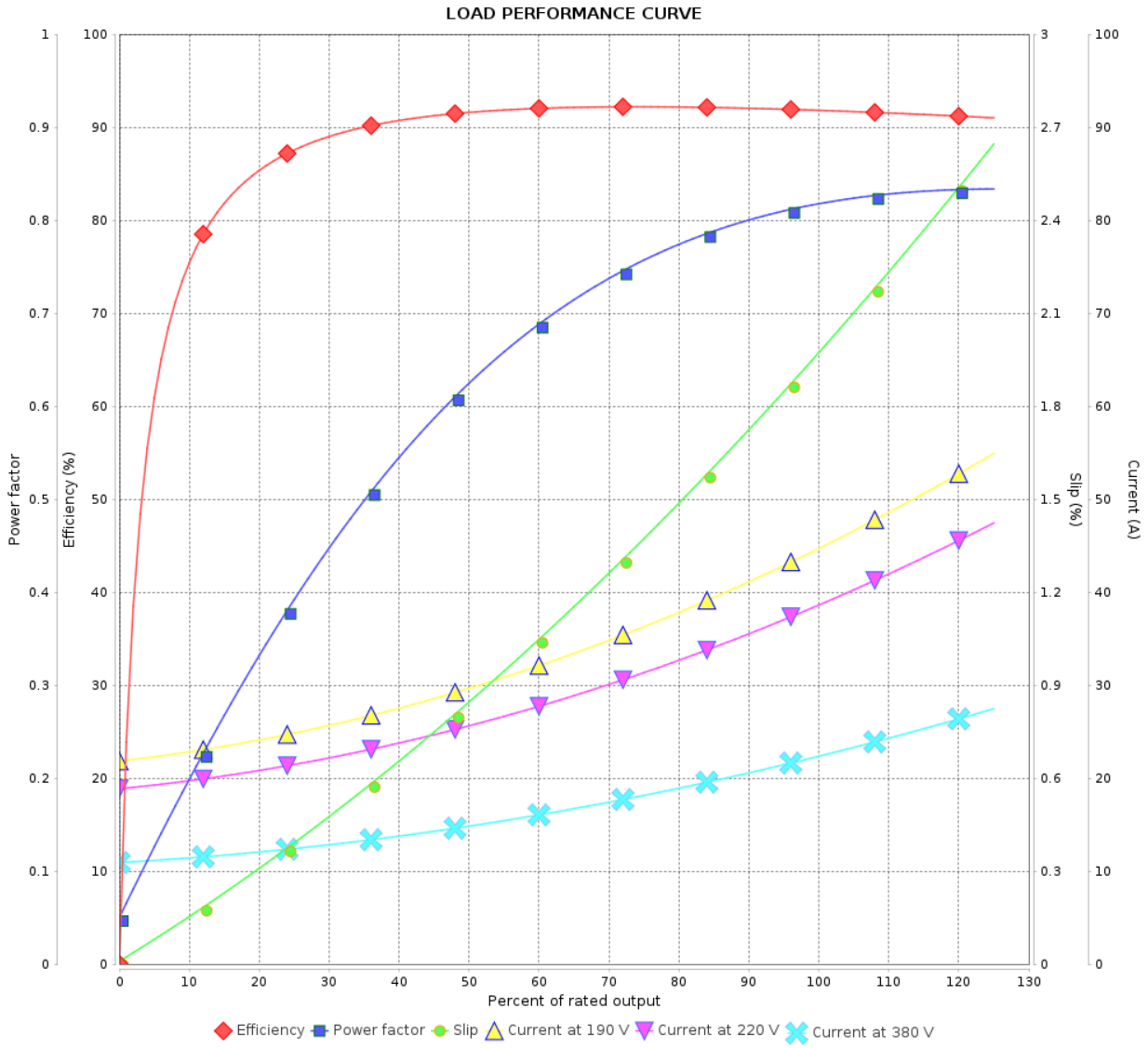
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Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12636592



Performance	: 190-220/380 V 50 Hz 4P		
Rated current	: 44.4-38.3/22.2 A	Moment of inertia (J)	: 0.1113 kgm²
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 7 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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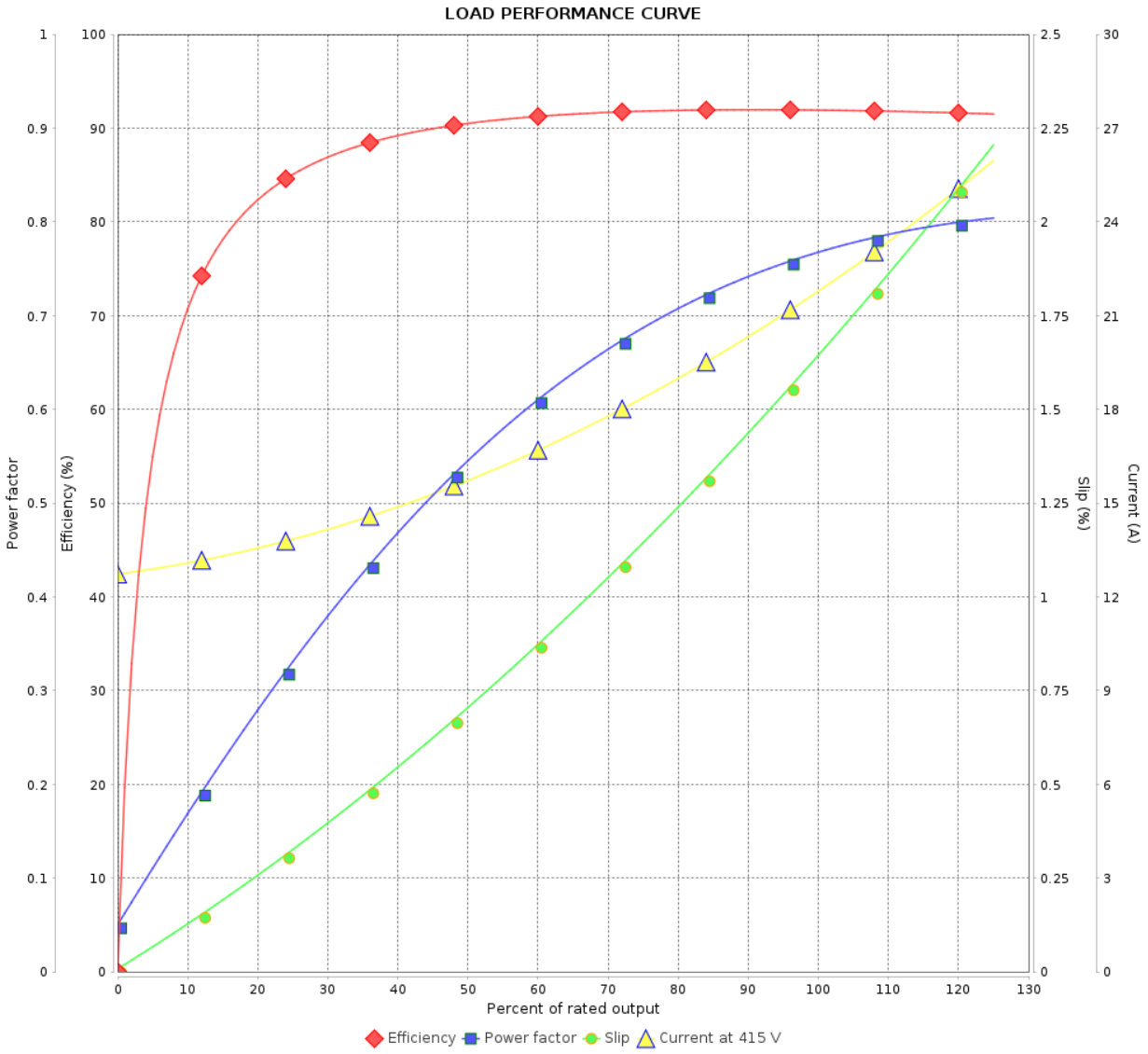
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase

Product code : 12636592



Performance	: 415 V 50 Hz 4P		
Rated current	: 21.6 A	Moment of inertia (J)	: 0.1113 kgm²
LRC	: 8.5	Duty cycle	: Cont.(S1)
Rated torque	: 7 kgfm	Insulation class	: F
Locked rotor torque	: 340 %	Service factor	: 1.15
Breakdown torque	: 390 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

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