DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12636366

Frame	: 254/6TC	Cooling method	: IC01 - ODP
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]	: 89.9 kg
Design	: B	Moment of inertia (J)	: 0.0939 kgm²

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]		50.0/25.0	44.6-38.5/22.3	21.8
L. R. Amperes [A]		315/158	303-262/152	170
LRC [A]		6.3x(Code G)	6.8x(Code H)	7.8x(Code K)
No load current [A]		22.9/11.4	22.4-19.4/11.2	13.5
Rated speed [RPM]		1770	1470	1475
Slip [%]		1.67	2.00	1.67
Rated torque [kgfm]		8	7	7
Locked rotor torque [%]		240	240	300
Breakdown torque [%]		290	300	360
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		27s (cold) 15s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level[2]		64.0 dB(A)	62.0 dB(A)	62.0 dB(A)
Efficiency (%)	25%			
	50%	92.4	91.0	89.9
	75%	92.4	91.4	91.0
	100%	93.0	91.4	91.4
Power Factor	25%			
	50%	0.63	0.62	0.53
	75%	0.74	0.75	0.68
	100%	0.81	0.82	0.77

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

Foundation loads
Max. traction : 366 kgf
Max. compression : 469 kgf

Notes
USABLE @208V 55.3A SF 1.00 SFA 55.3A

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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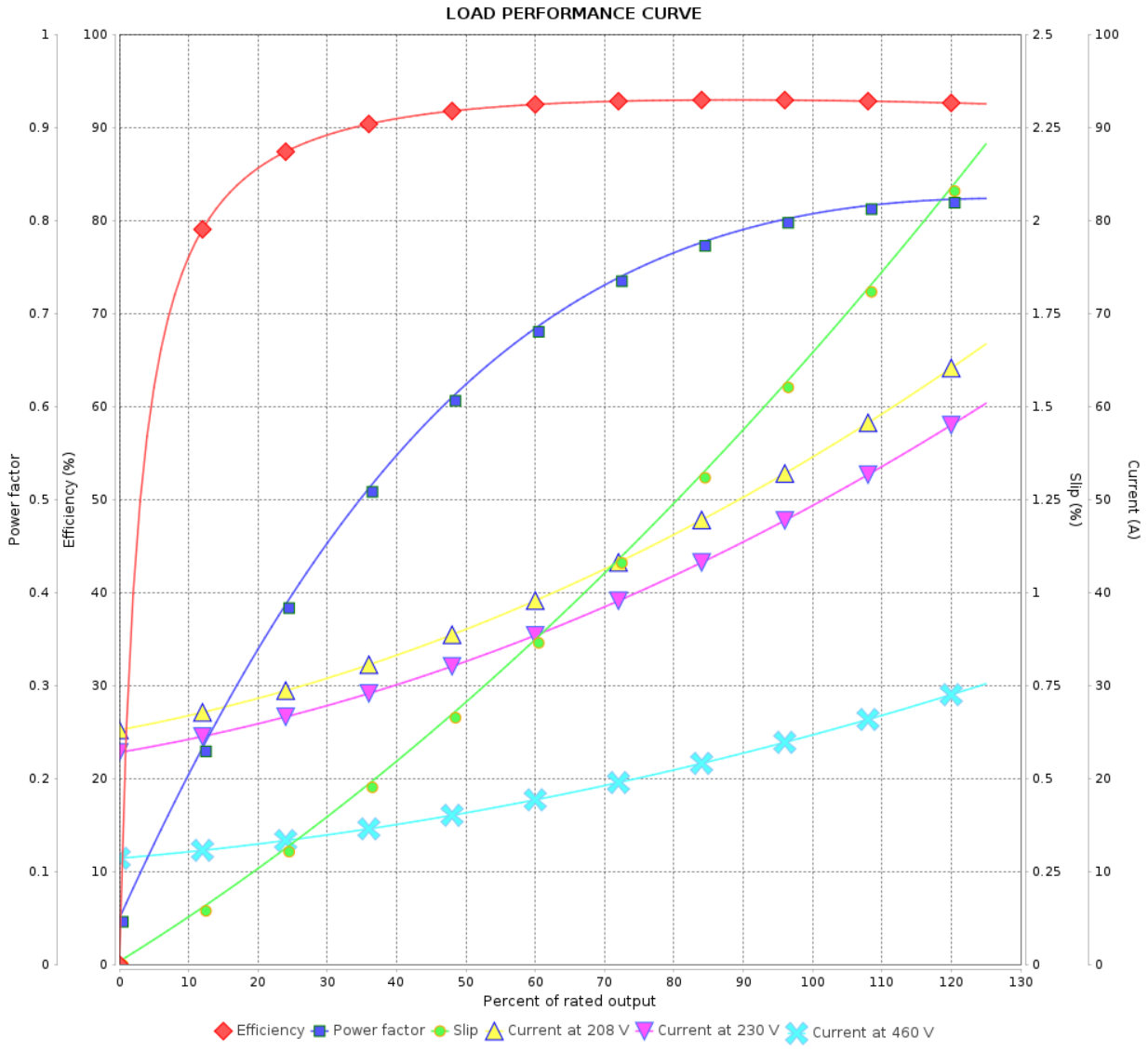
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12636366



Performance	: 230/460 V 60 Hz 4P

Rated current	: 50.0/25.0 A	Moment of inertia (J)	: 0.0939 kgm²
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 8 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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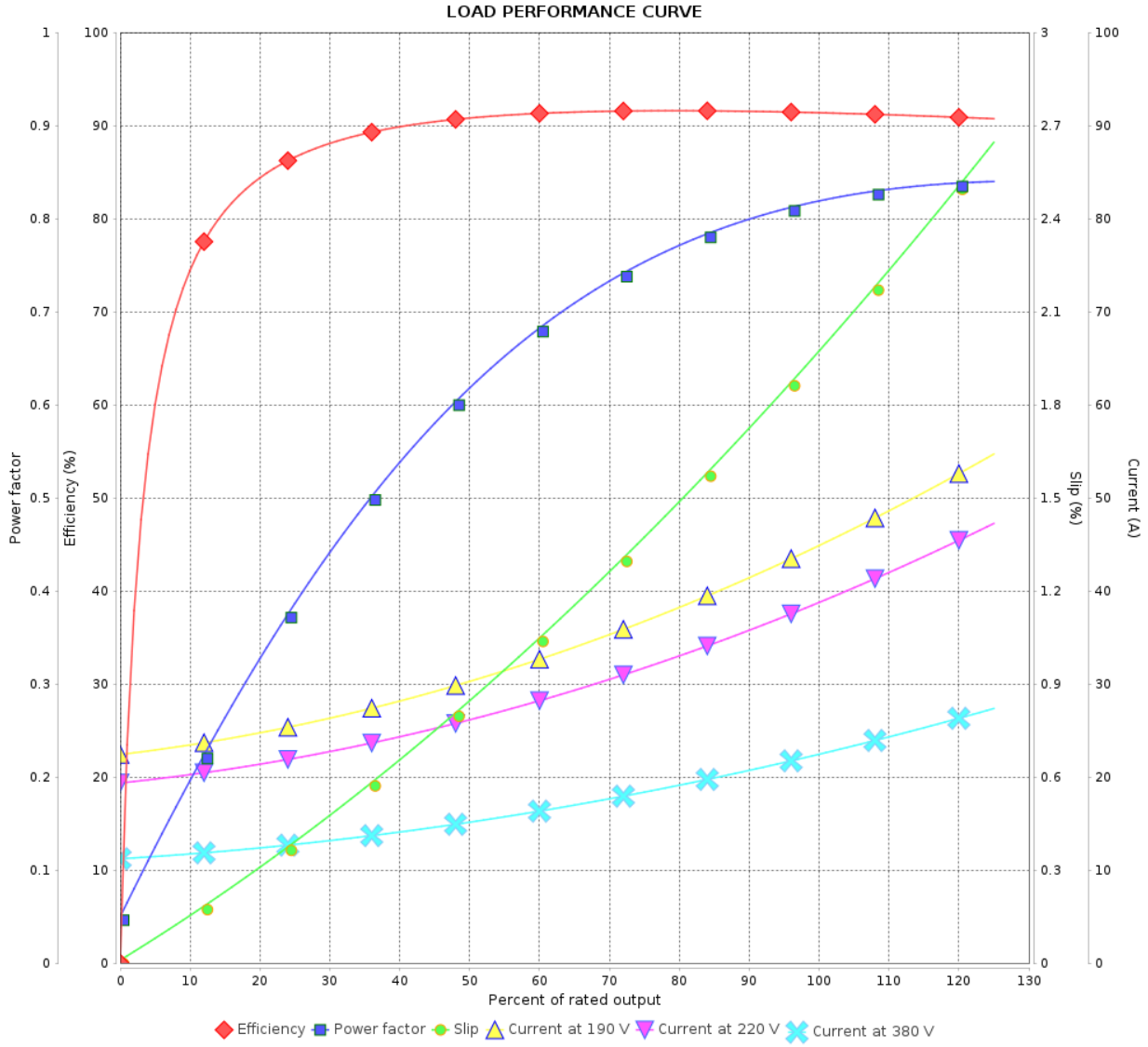
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase

Product code : 12636366



Performance	: 190-220/380 V 50 Hz 4P		
Rated current	: 44.6-38.5/22.3 A	Moment of inertia (J)	: 0.0939 kgm²
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 7 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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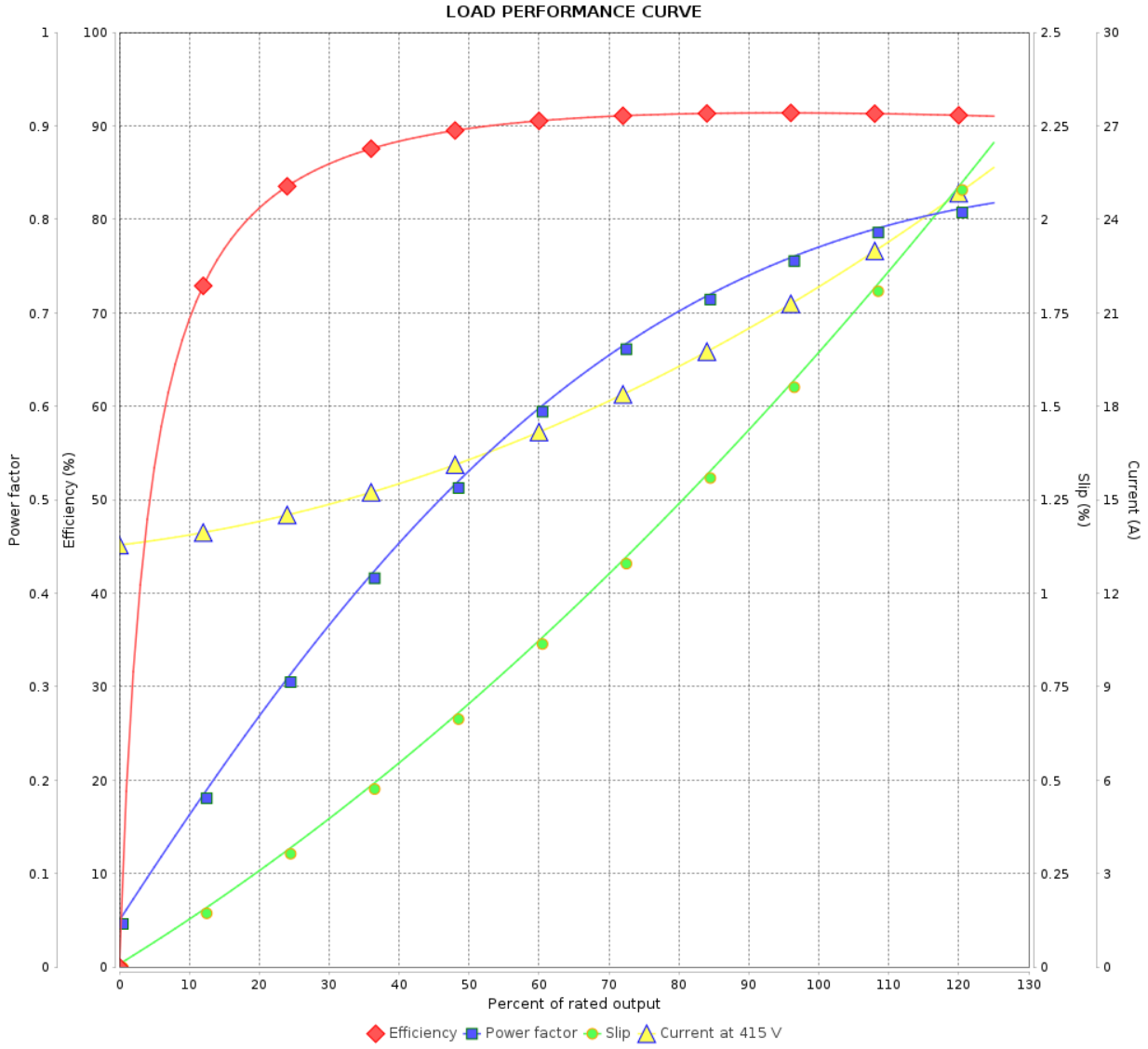
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Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12636366



Performance	: 415 V 50 Hz 4P		
Rated current	: 21.8 A	Moment of inertia (J)	: 0.0939 kgm²
LRC	: 7.8	Duty cycle	: Cont.(S1)
Rated torque	: 7 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.15
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

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