DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	13528749

Frame	: 182/4TC	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: W-6
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]	: 36.2 kg
Design	: B	Moment of inertia (J)	: 0.0169 kgm²

Output [HP]		5	4	4
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190-220/380	415
Rated current [A]		12.7/6.33	12.5-10.8/6.26	6.10
L. R. Amperes [A]		91.2/45.6	90.1-77.9/45.1	50.6
LRC [A]		7.2x(Code J)	7.2x(Code J)	8.3x(Code L)
No load current [A]		6.29/3.15	6.19-5.35/3.10	3.61
Rated speed [RPM]		1760	1455	1465
Slip [%]		2.22	3.00	2.33
Rated torque [kgfm]		2	1	1
Locked rotor torque [%]		200	180	229
Breakdown torque [%]		310	280	340
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		21s (cold) 12s (hot)	27s (cold) 15s (hot)	23s (cold) 13s (hot)
Noise level[2]		55.0 dB(A)	53.0 dB(A)	53.0 dB(A)
Efficiency (%)	25%			
	50%	88.5	88.1	86.6
	75%	88.5	88.1	87.8
	100%	89.5	87.7	87.7
Power Factor	25%			
	50%	0.63	0.63	0.55
	75%	0.76	0.77	0.70
	100%	0.82	0.83	0.78

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

Foundation loads
Max. traction : 122 kgf
Max. compression : 160 kgf

Notes
USABLE @208V 14.0A SF 1.00 SFA 14.0A

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.

Rev.	Changes Summary	Performed	Checked	Date

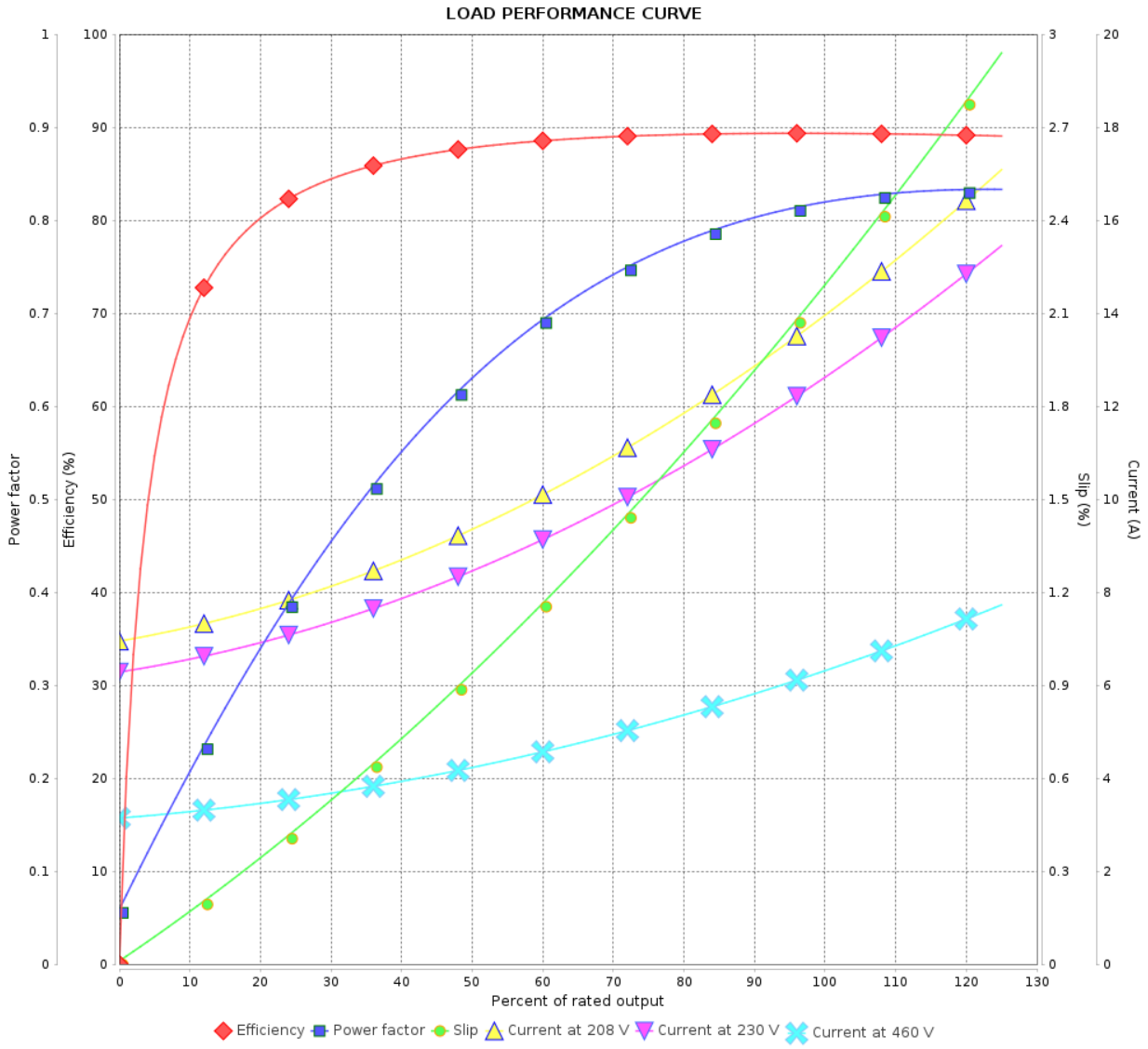
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	13528749



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 12.7/6.33 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1760 rpm	Design	: B

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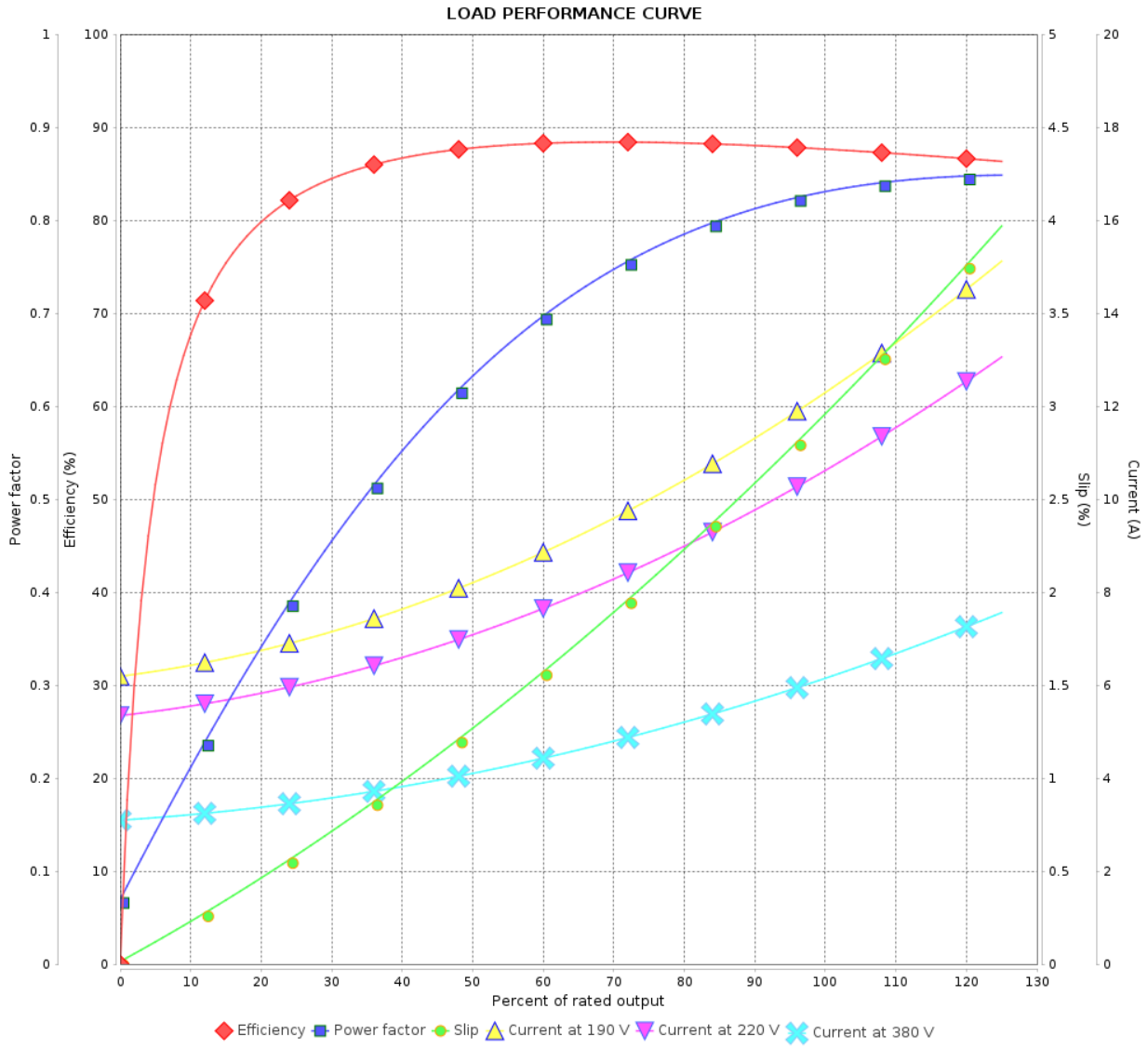
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	13528749



Performance	: 190-220/380 V 50 Hz 4P

Rated current	: 12.5-10.8/6.26 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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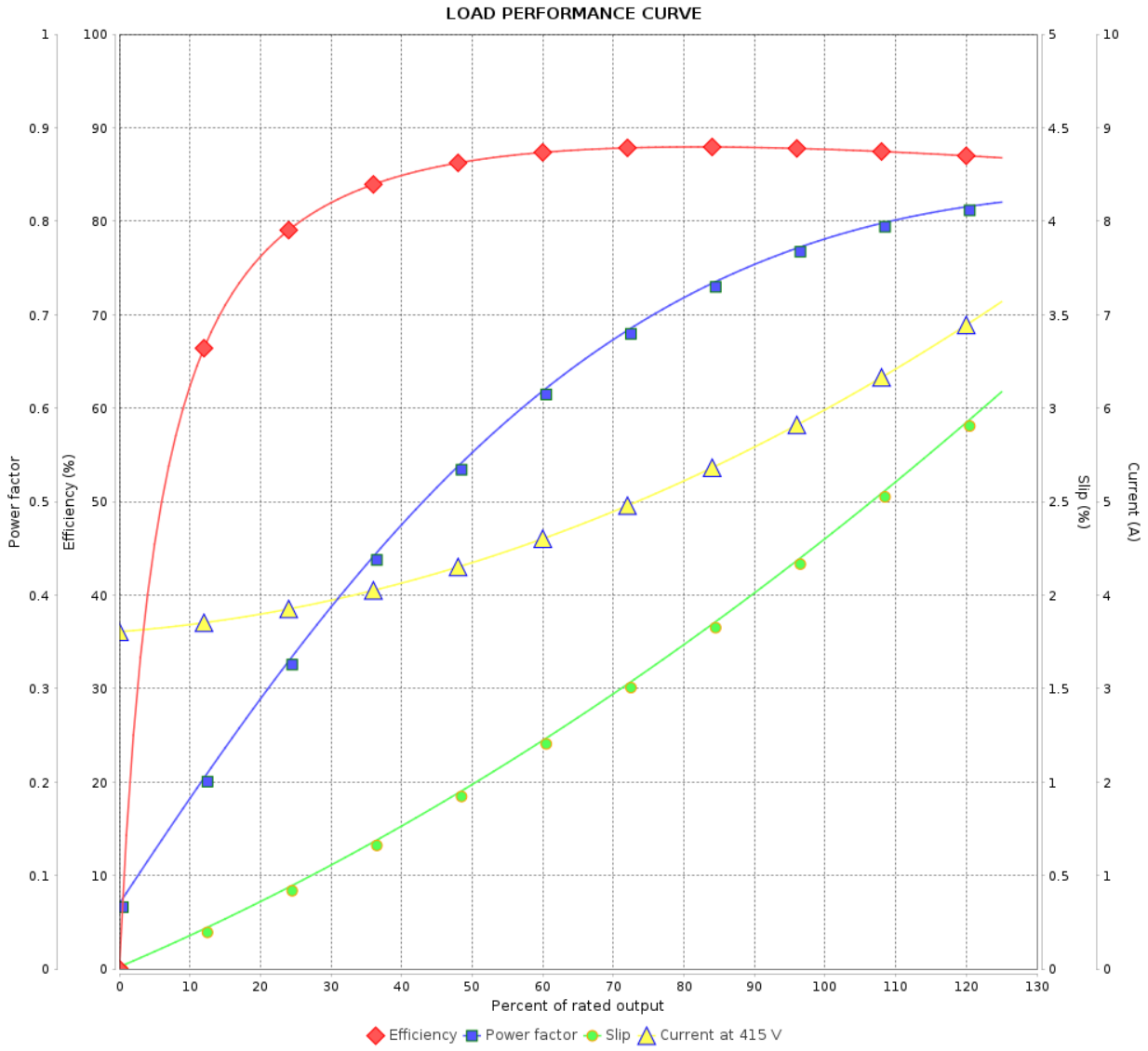
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	13528749



Performance	: 415 V 50 Hz 4P

Rated current	: 6.10 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

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