DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	13913770

Frame	: 213/5T	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	: 70.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0267 kgm²
Design	: A		

Output [HP]		15	10	10
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190-220/380	415
Rated current [A]		34.1/17.1	28.8-24.8/14.4	13.9
L. R. Amperes [A]		280/140	250-216/125	135
LRC [A]		8.2x(Code J)	8.7x(Code K)	9.7x(Code L)
No load current [A]		11.2/5.60	11.0-9.50/5.50	6.45
Rated speed [RPM]		3535	2950	2955
Slip [%]		1.81	1.67	1.50
Rated torque [kgfm]		3	2	2
Locked rotor torque [%]		280	320	380
Breakdown torque [%]		330	370	450
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		18s (cold) 10s (hot)	27s (cold) 15s (hot)	23s (cold) 13s (hot)
Noise level²		70.0 dB(A)	67.0 dB(A)	67.0 dB(A)
Efficiency (%)	25%			
	50%	90.2	90.5	89.6
	75%	91.0	91.4	91.2
	100%	91.0	91.1	91.3
Power Factor	25%			
	50%	0.76	0.71	0.62
	75%	0.85	0.82	0.75
	100%	0.89	0.87	0.82

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

Losses (%)	P1 (0,9;1,0)	8.5	9.0	9.0
	P2 (0,5;1,0)	6.6	7.0	7.0
	P3 (0,25;1,0)	6.1	6.4	6.4
	P4 (0,9;0,5)	5.0	5.3	5.3
	P5 (0,5;0,5)	3.1	3.3	3.3
	P6 (0,5;0,25)	2.3	2.5	2.5
	P7 (0,25;0,25)	1.5	1.6	1.6

		Drive end	Non drive end
Bearing type	:	6208 ZZ	6206 ZZ
Sealing	:	V'Ring	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 168 kgf

Max. compression : 241 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 37.6A SF 1.00 SFA 37.6A

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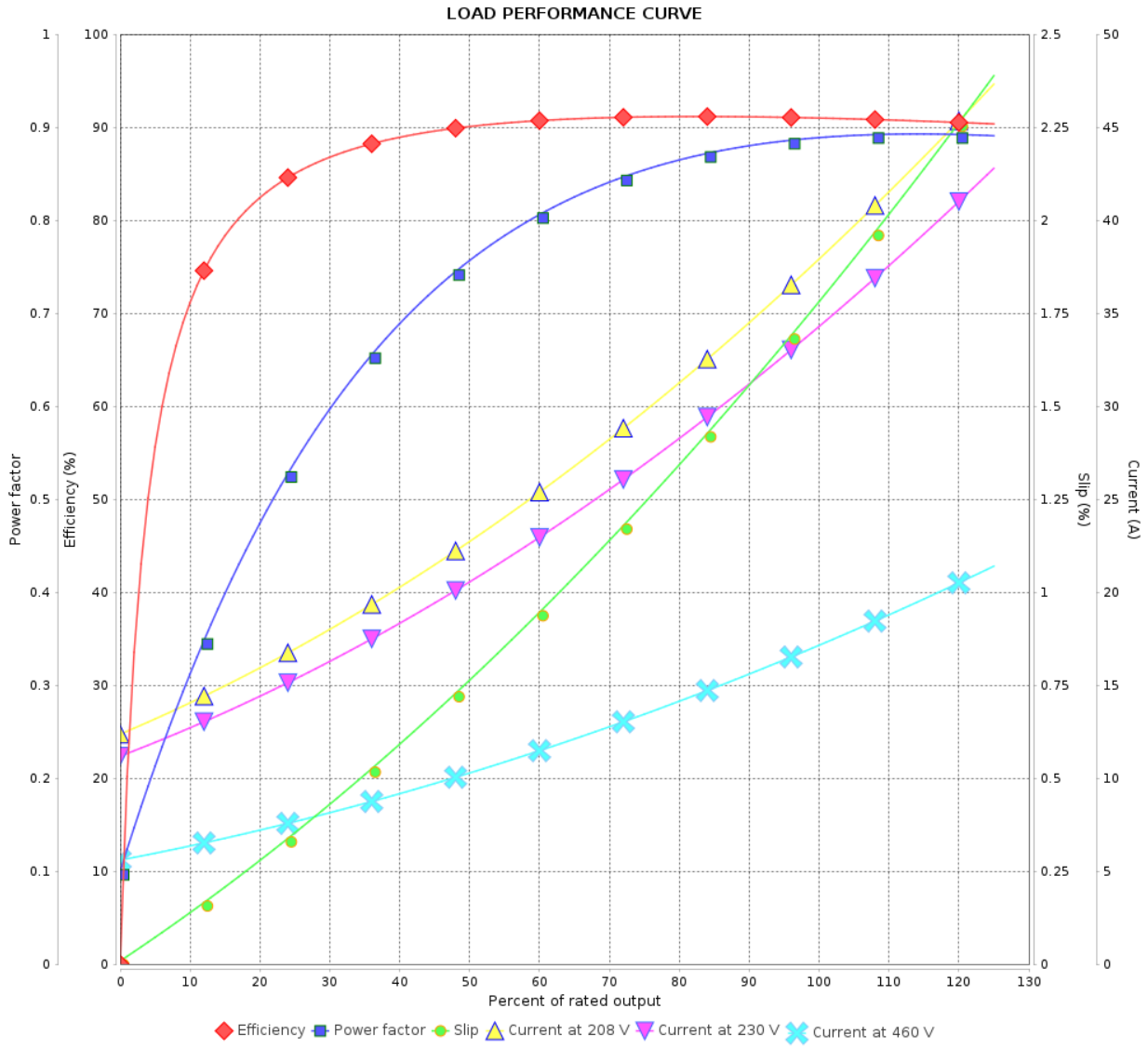
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	13913770



Performance	: 230/460 V 60 Hz 2P

Rated current	: 34.1/17.1 A	Moment of inertia (J)	: 0.0267 kgm²
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 3 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 3535 rpm	Design	: A

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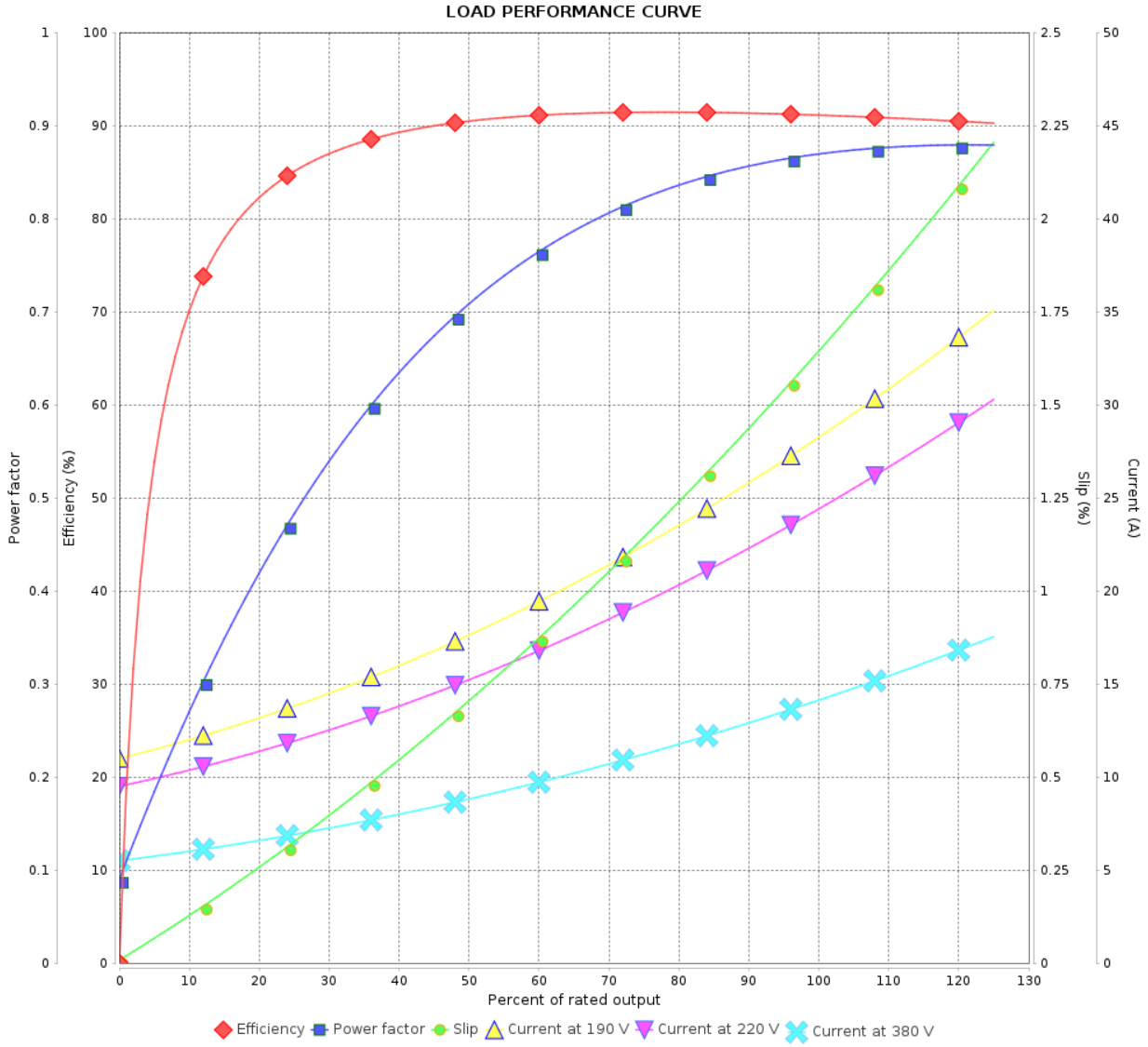
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Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	13913770



Performance	: 190-220/380 V 50 Hz 2P		
Rated current	: 28.8-24.8/14.4 A	Moment of inertia (J)	: 0.0267 kgm²
LRC	: 8.7	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.15
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: A

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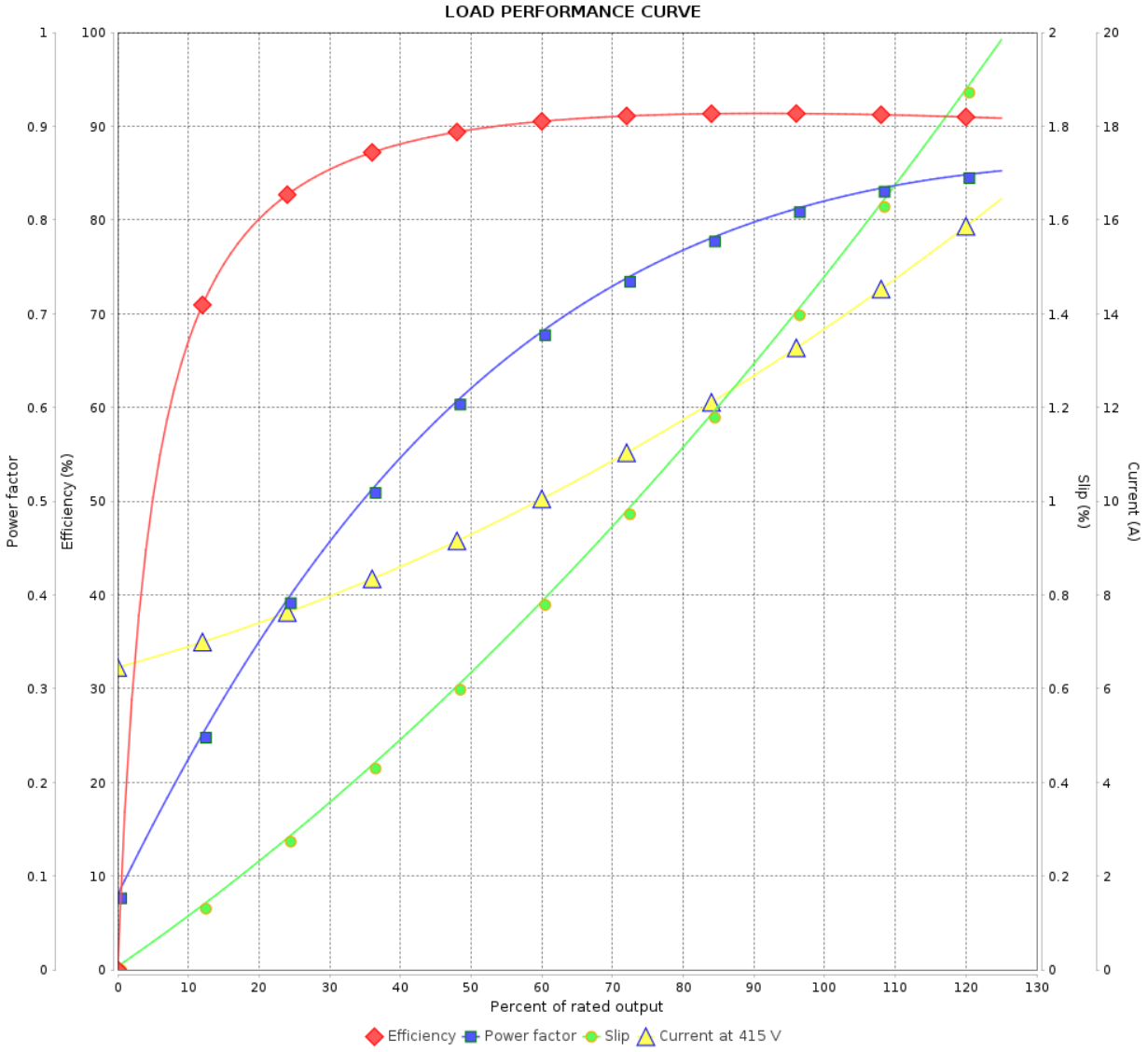
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase

Product code : 13913770



Performance	: 415 V 50 Hz 2P		
Rated current	: 13.9 A	Moment of inertia (J)	: 0.0267 kgm²
LRC	: 9.7	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 380 %	Service factor	: 1.15
Breakdown torque	: 450 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: A

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