DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	13202802

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	: 95.8 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0514 kgm²
Design	: B		

Output [HP]		20	15	15
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190-220/380	415
Rated current [A]		45.4/22.7	40.8-35.2/20.4	19.0
L. R. Amperes [A]		300/150	302-261/151	165
LRC [A]		6.6x(Code G)	7.4x(Code H)	8.7x(Code J)
No load current [A]		13.8/6.88	13.6-11.7/6.79	7.66
Rated speed [RPM]		3515	2925	2940
Slip [%]		2.36	2.50	2.00
Rated torque [kgfm]		4	3	3
Locked rotor torque [%]		200	210	260
Breakdown torque [%]		290	310	370
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	80 K
Locked rotor time		21s (cold) 12s (hot)	34s (cold) 19s (hot)	30s (cold) 17s (hot)
Noise level²		75.0 dB(A)	72.0 dB(A)	72.0 dB(A)
Efficiency (%)	25%			
	50%	90.0	91.6	91.4
	75%	91.0	91.7	92.1
	100%	91.0	91.2	91.7
Power Factor	25%			
	50%	0.81	0.79	0.73
	75%	0.88	0.87	0.83
	100%	0.91	0.90	0.88

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

Losses (%)	P1 (0,9;1,0)	8.8	8.3	8.7
	P2 (0,5;1,0)	7.3	6.9	7.2
	P3 (0,25;1,0)	6.7	6.3	6.6
	P4 (0,9;0,5)	4.5	4.2	4.4
	P5 (0,5;0,5)	2.9	2.8	2.9
	P6 (0,5;0,25)	1.9	1.8	1.9
	P7 (0,25;0,25)	1.3	1.2	1.3

		Drive end	Non drive end
Bearing type	:	6309 Z C3	6208 Z C3
Sealing	:	V'Ring	Without Bearing Seal
Lubrication interval	:	15797 h	20000 h
Lubricant amount	:	13 g	8 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 163 kgf

Max. compression : 268 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 50.2A SF 1.00 SFA 50.2A

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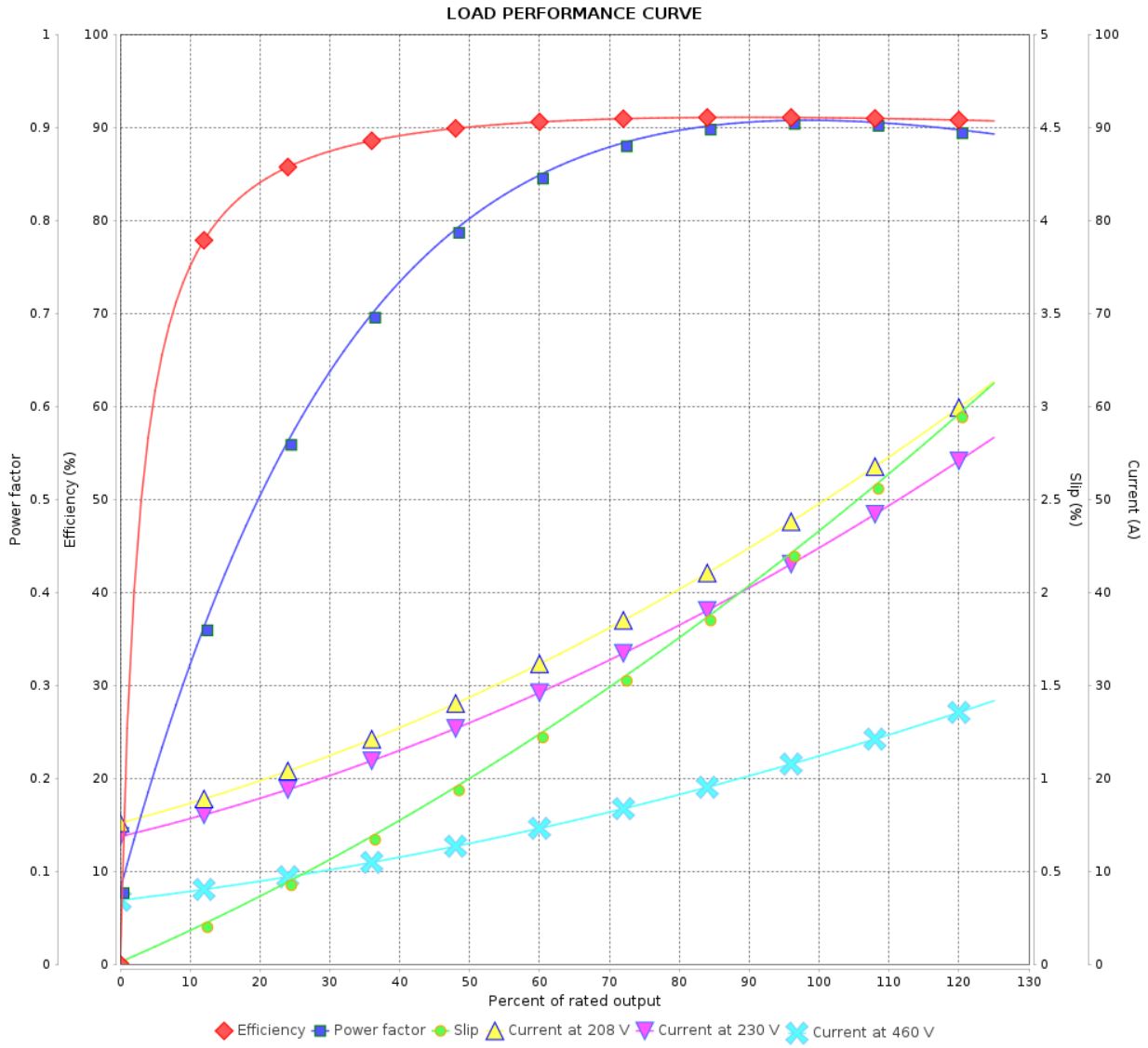
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Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	13202802



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 45.4/22.7 A	Moment of inertia (J)	: 0.0514 kgm²
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 4 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm	Design	: B

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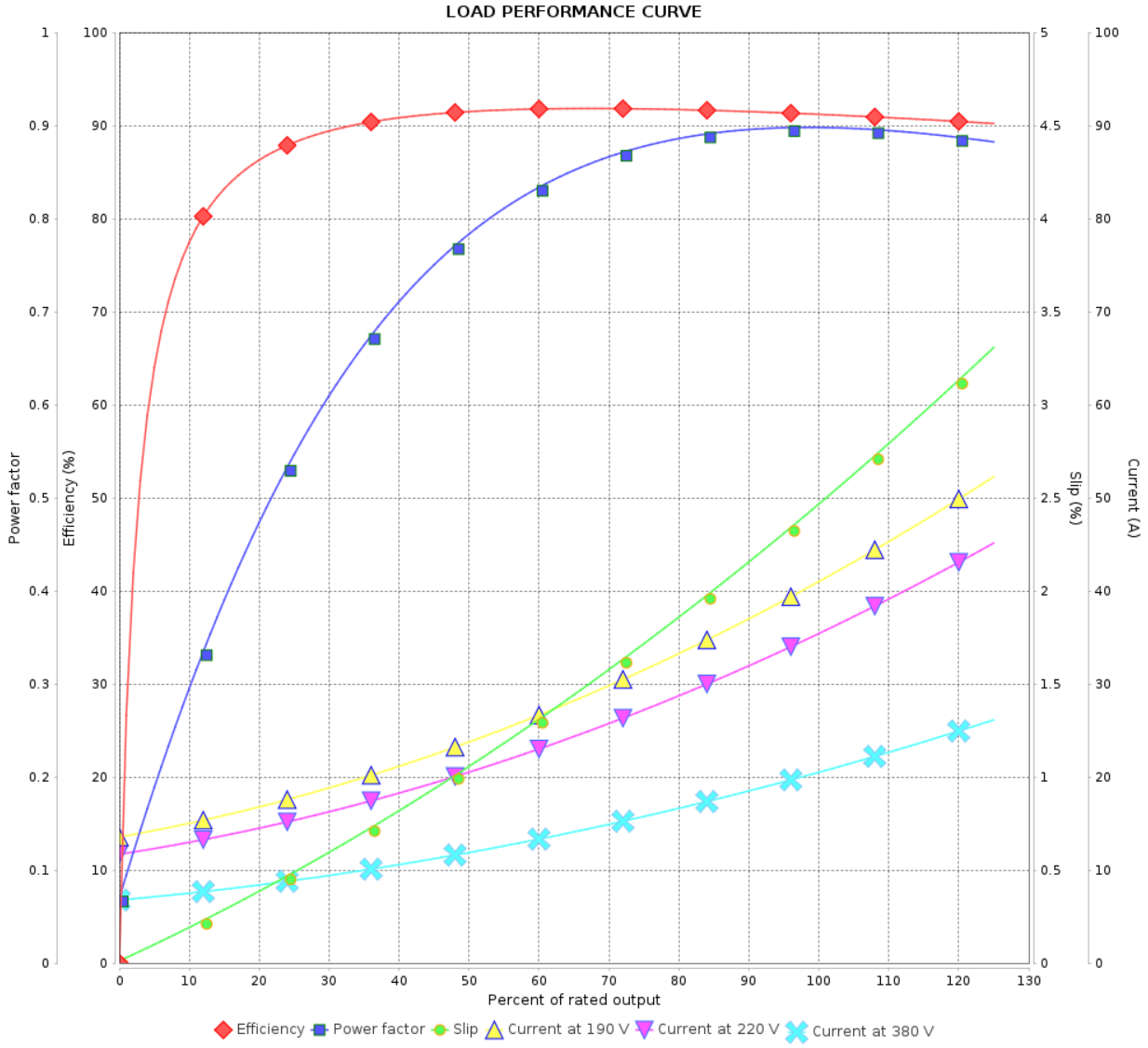
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Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	13202802



Performance	: 190-220/380 V 50 Hz 2P		
Rated current	: 40.8-35.2/20.4 A	Moment of inertia (J)	: 0.0514 kgm²
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 3 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 105 K
Rated speed	: 2925 rpm	Design	: B

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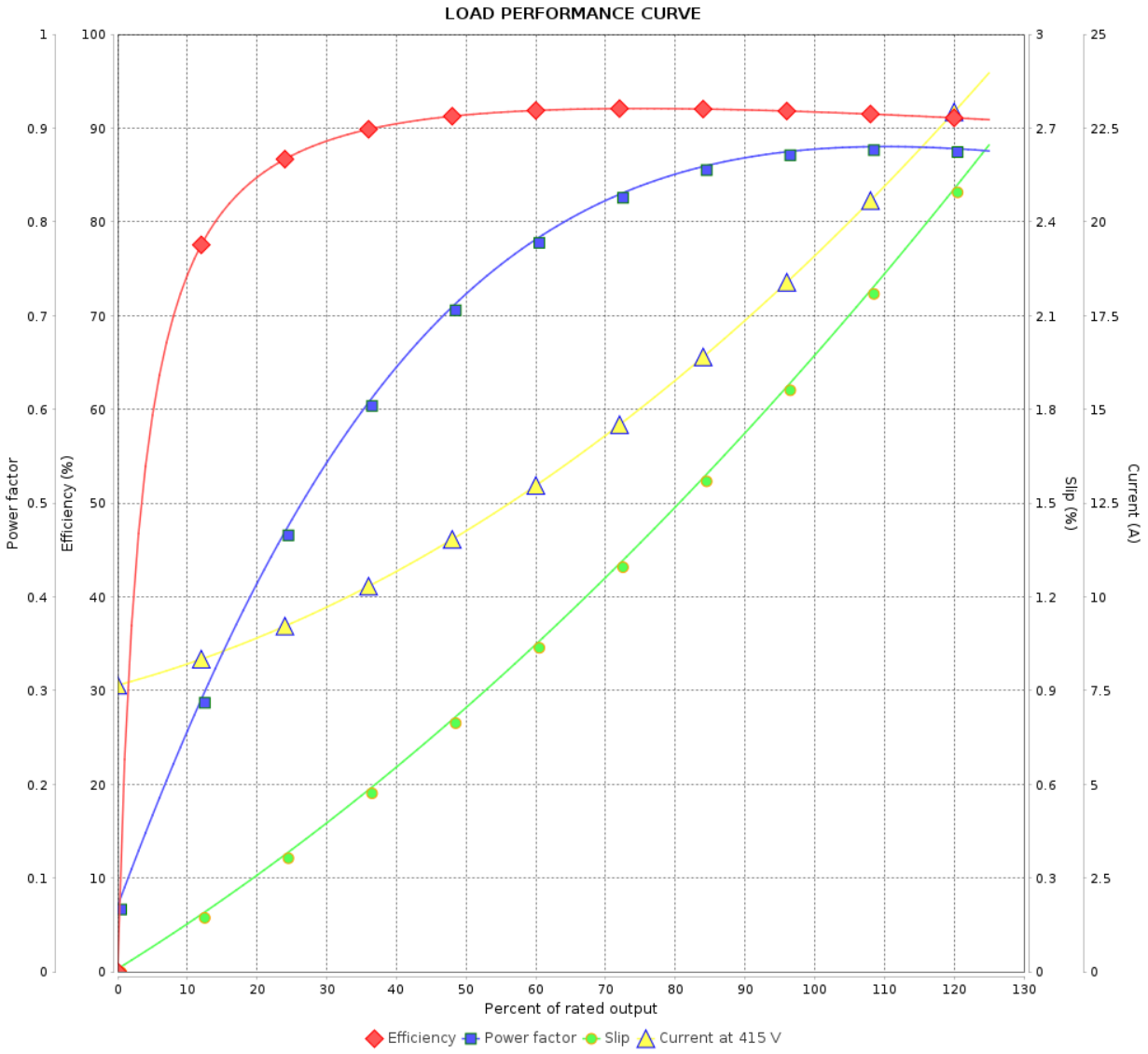
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase

Product code : 13202802



Performance	: 415 V 50 Hz 2P		
Rated current	: 19.0 A	Moment of inertia (J)	: 0.0514 kgm²
LRC	: 8.7	Duty cycle	: Cont.(S1)
Rated torque	: 3 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B

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