DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12675351

Frame	: 182/4TC	Cooling method	: IC411 - TEFC
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]	: 28.8 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0066 kgm²
Design	: B		

Output [HP]		3	2	2
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190-220/380	415
Rated current [A]		7.52/3.76	6.56-5.67/3.28	3.19
L. R. Amperes [A]		66.2/33.1	60.4-52.1/30.2	33.2
LRC [A]		8.8x(Code K)	9.2x(Code L)	10.4x(Code N)
No load current [A]		3.40/1.70	3.40-2.94/1.70	2.00
Rated speed [RPM]		3515	2920	2940
Slip [%]		2.36	2.67	2.00
Rated torque [kgfm]		0.619	0.497	0.494
Locked rotor torque [%]		240	300	350
Breakdown torque [%]		350	400	480
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		45s (cold) 25s (hot)	55s (cold) 31s (hot)	46s (cold) 26s (hot)
Noise level[2]		68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%			
	50%	84.0	83.3	81.6
	75%	86.5	85.0	85.1
	100%	86.5	85.9	86.2
Power Factor	25%			
	50%	0.70	0.62	0.56
	75%	0.80	0.73	0.67
	100%	0.85	0.81	0.76

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

Losses (%)	P1 (0,9;1,0)	14.2	14.9	14.5
	P2 (0,5;1,0)	10.4	11.0	10.7
	P3 (0,25;1,0)	10.2	10.8	10.5
	P4 (0,9;0,5)	8.6	9.0	8.8
	P5 (0,5;0,5)	4.8	5.1	4.9
	P6 (0,5;0,25)	3.5	3.7	3.6
	P7 (0,25;0,25)	2.2	2.3	2.3

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

Foundation loads

Max. traction : 35 kgf

Max. compression : 63 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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Notes
USABLE @208V 8.12A SF 1.00 SFA 8.12A

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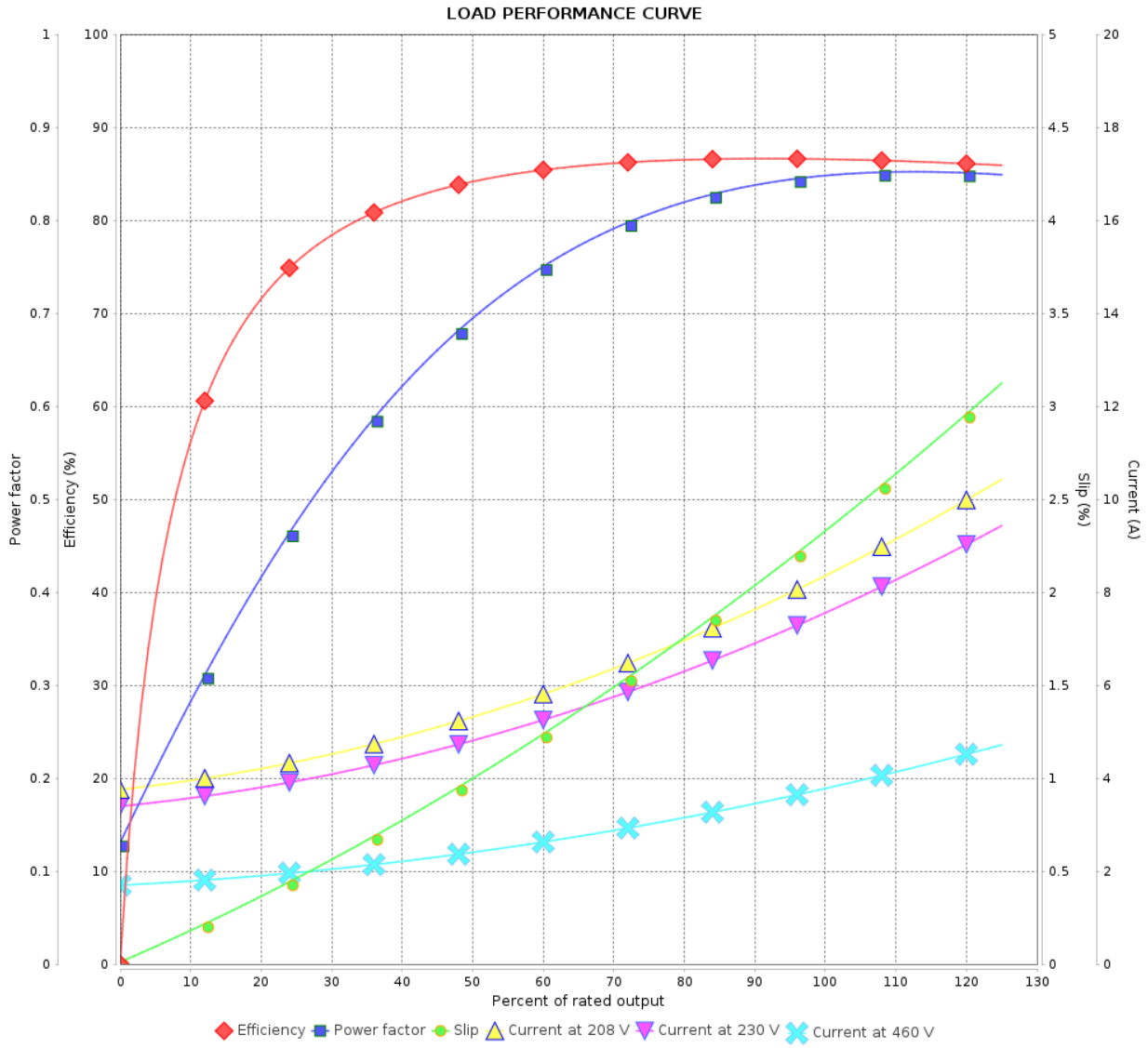
Customer	:		
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12675351



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 7.52/3.76 A	Moment of inertia (J)	: 0.0066 kgm²
LRC	: 8.8	Duty cycle	: Cont.(S1)
Rated torque	: 0.619 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm	Design	: B

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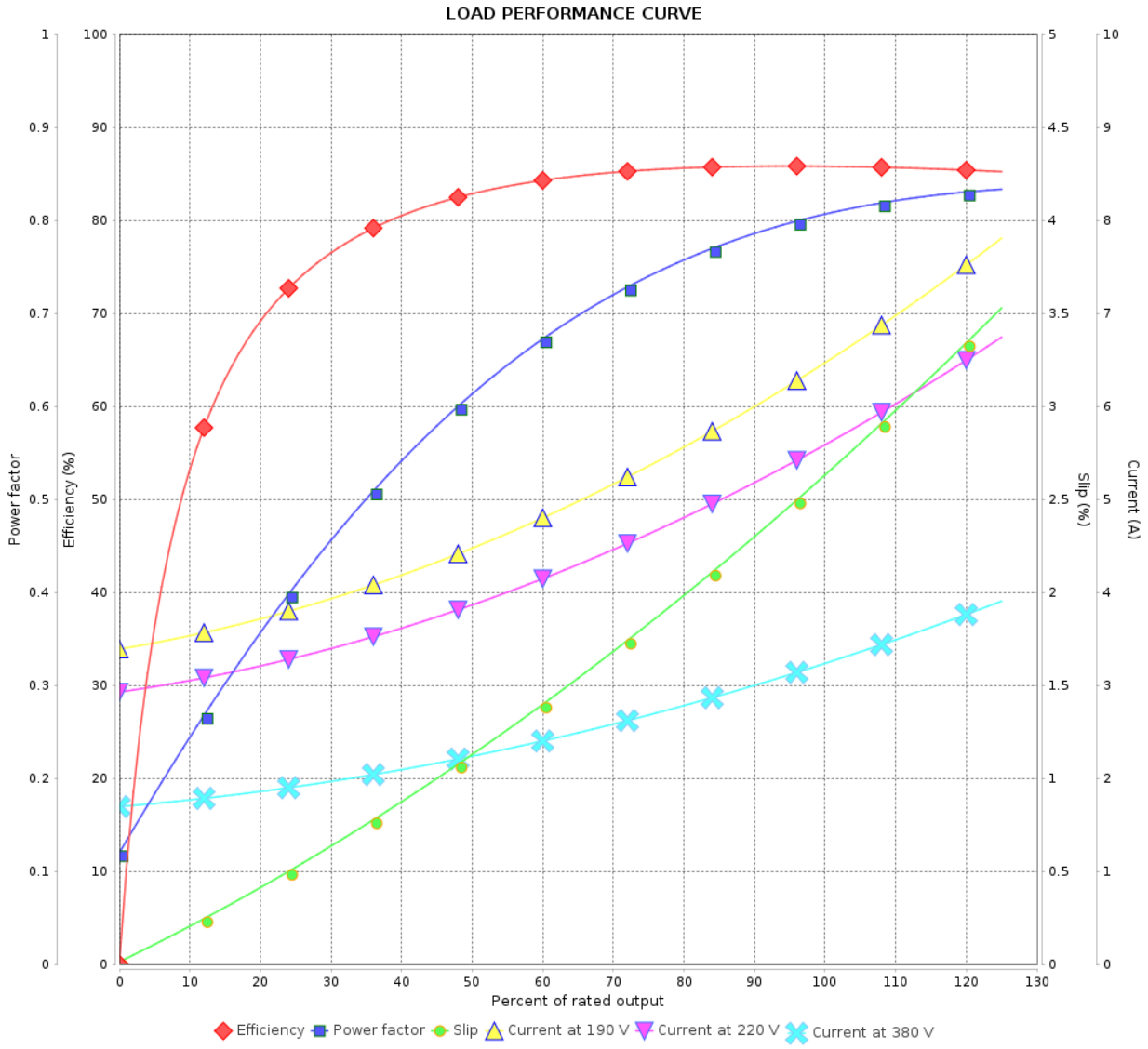

Performance	: 190-220/380 V 50 Hz 2P		
Rated current	: 6.56-5.67/3.28 A	Moment of inertia (J)	: 0.0066 kgm²
LRC	: 9.2	Duty cycle	: Cont.(S1)
Rated torque	: 0.497 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.15
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 2920 rpm	Design	: B

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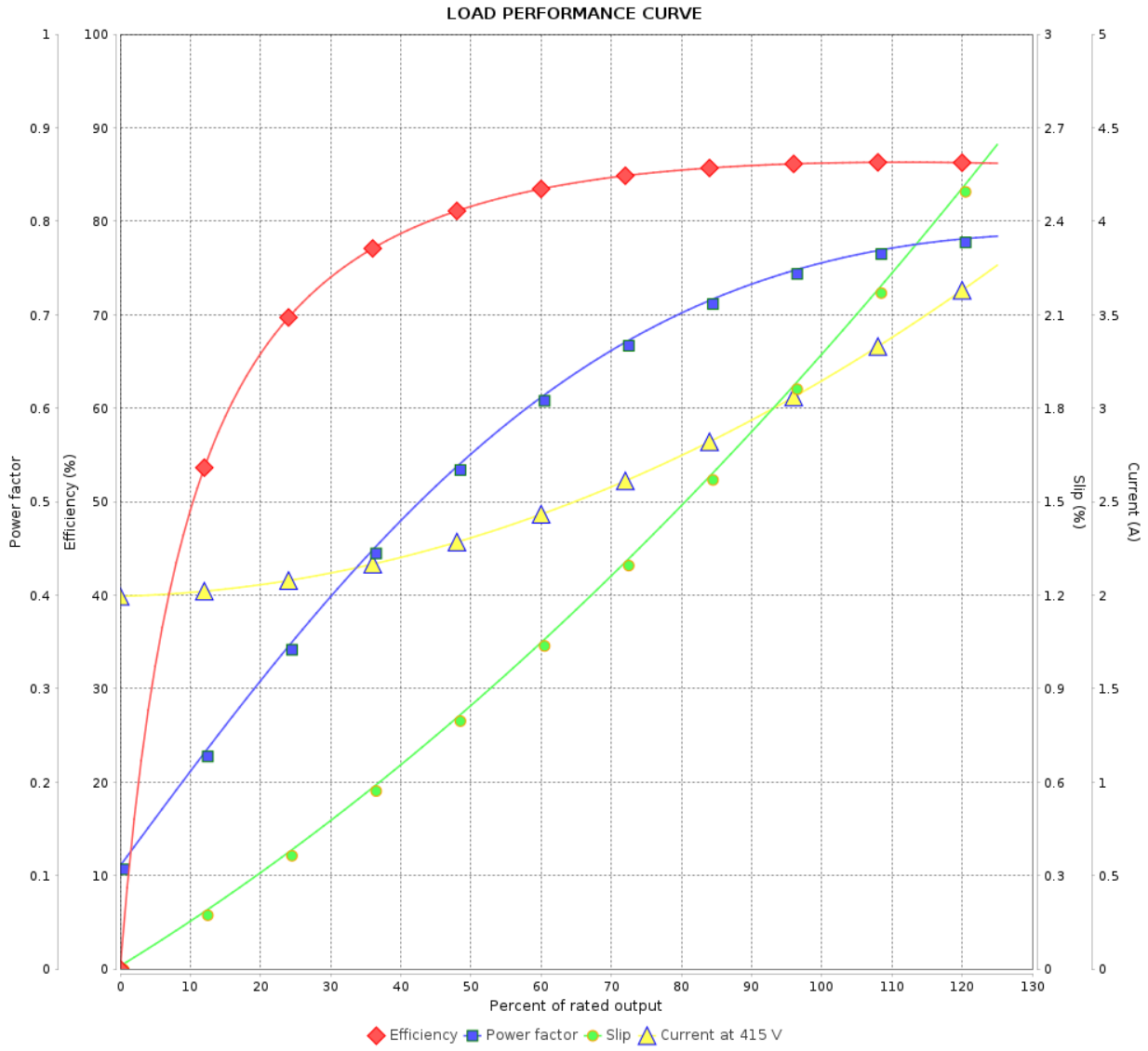

Performance	: 415 V 50 Hz 2P		
Rated current	: 3.19 A	Moment of inertia (J)	: 0.0066 kgm²
LRC	: 10.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.494 kgfm	Insulation class	: F
Locked rotor torque	: 350 %	Service factor	: 1.15
Breakdown torque	: 480 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B

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