DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12675367

Frame	: 213/5TC	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	: 54.4 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0375 kgm²
Design	: B		

Output [HP]		7.5	5.5	5.5
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190-220/380	415
Rated current [A]		17.9/8.96	16.7-14.5/8.37	8.09
L. R. Amperes [A]		129/64.5	134-116/67.0	69.6
LRC [A]		7.2x(Code H)	8.0x(Code K)	8.6x(Code K)
No load current [A]		8.20/4.10	8.20-7.08/4.10	4.40
Rated speed [RPM]		1770	1475	1475
Slip [%]		1.67	1.67	1.67
Rated torque [kgfm]		3	2	2
Locked rotor torque [%]		229	229	250
Breakdown torque [%]		300	330	350
Service factor		1.15	1.00	1.00
Temperature rise		80 K	80 K	80 K
Locked rotor time		32s (cold) 18s (hot)	28s (cold) 16s (hot)	27s (cold) 15s (hot)
Noise level²		60.0 dB(A)	57.0 dB(A)	57.0 dB(A)
Efficiency (%)	25%	0.000	0.000	0.000
	50%	90.2	89.5	89.0
	75%	91.0	90.0	90.1
	100%	91.7	88.6	89.2
Power Factor	25%	0.00	0.00	0.00
	50%	0.68	0.64	0.60
	75%	0.78	0.76	0.72
	100%	0.84	0.82	0.80

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

Losses (%)	P1 (0,9;1,0)	8.8	12.4	11.7
	P2 (0,5;1,0)	7.4	10.5	9.9
	P3 (0,25;1,0)	6.9	9.8	9.2
	P4 (0,9;0,5)	4.5	6.4	6.0
	P5 (0,5;0,5)	3.1	4.4	4.2
	P6 (0,5;0,25)	2.2	3.1	2.9
	P7 (0,25;0,25)	1.6	2.2	2.1

		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 : 142 kgf

Max. compression : 208 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 20.1A SF 1.00 SFA 20.1A

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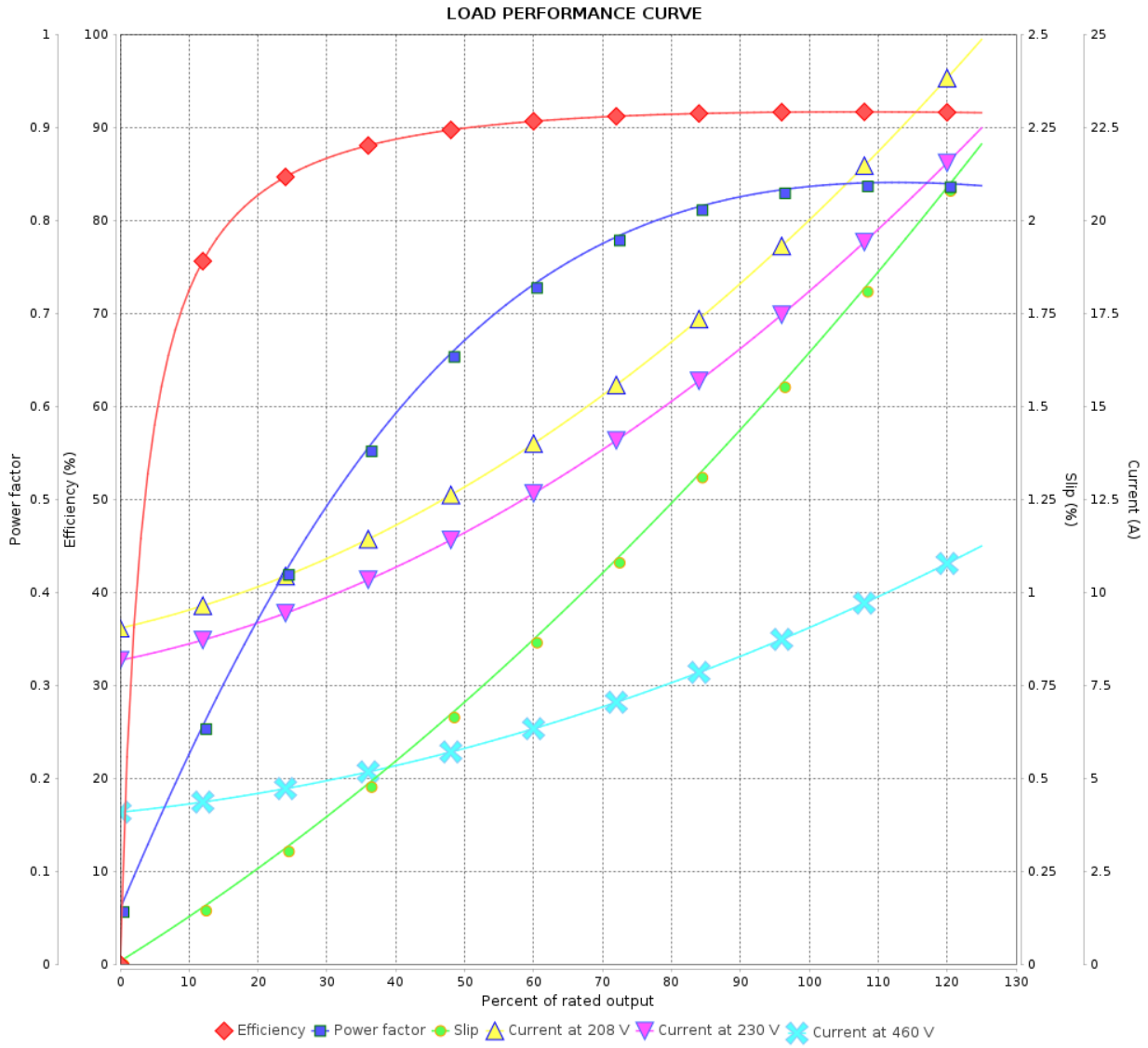
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase

Product code : 12675367



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 17.9/8.96 A	Moment of inertia (J)	: 0.0375 kgm²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 3 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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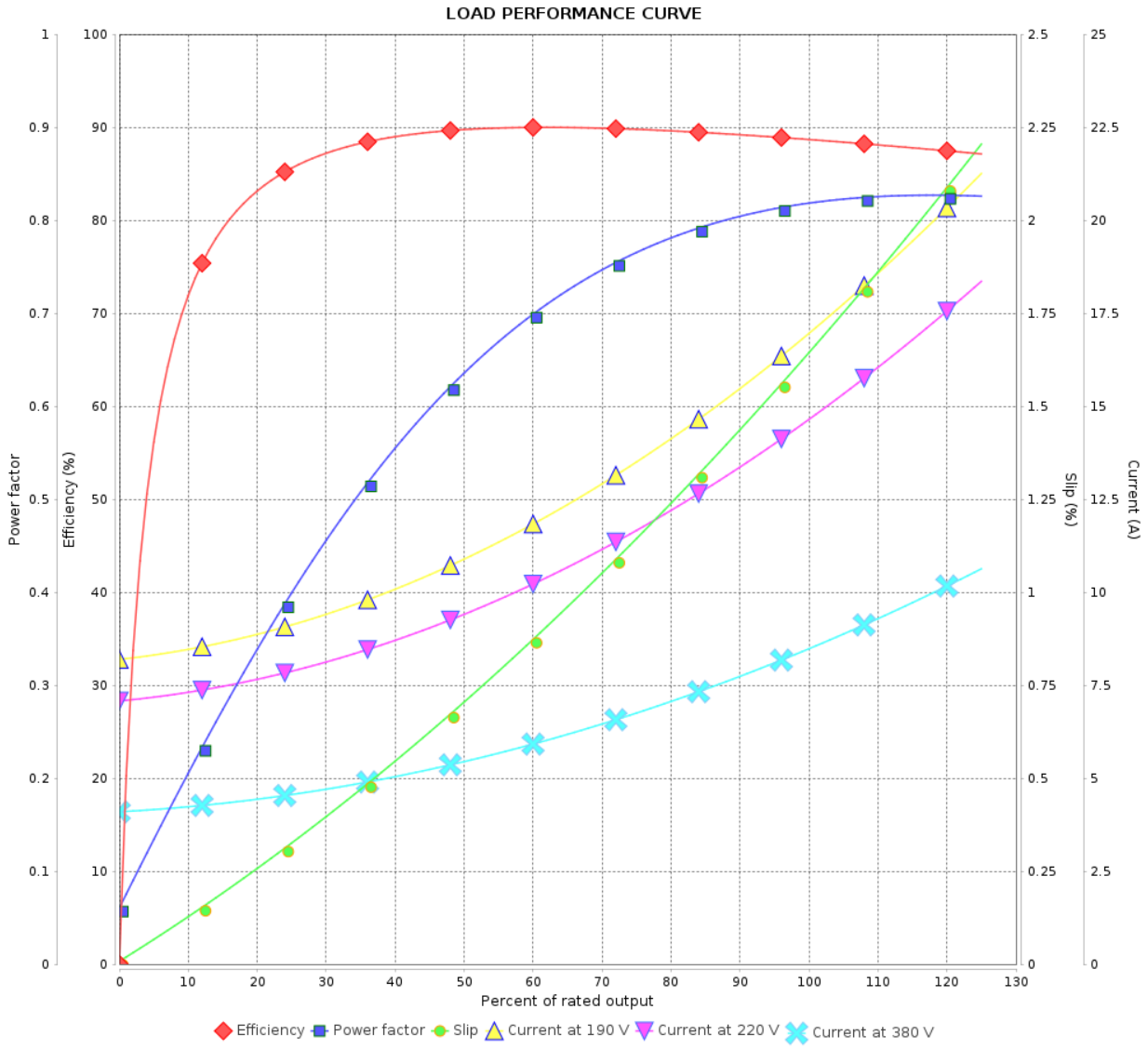
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Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12675367



Performance	: 190-220/380 V 50 Hz 4P		
Rated current	: 16.7-14.5/8.37 A	Moment of inertia (J)	: 0.0375 kgm²
LRC	: 8.0	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

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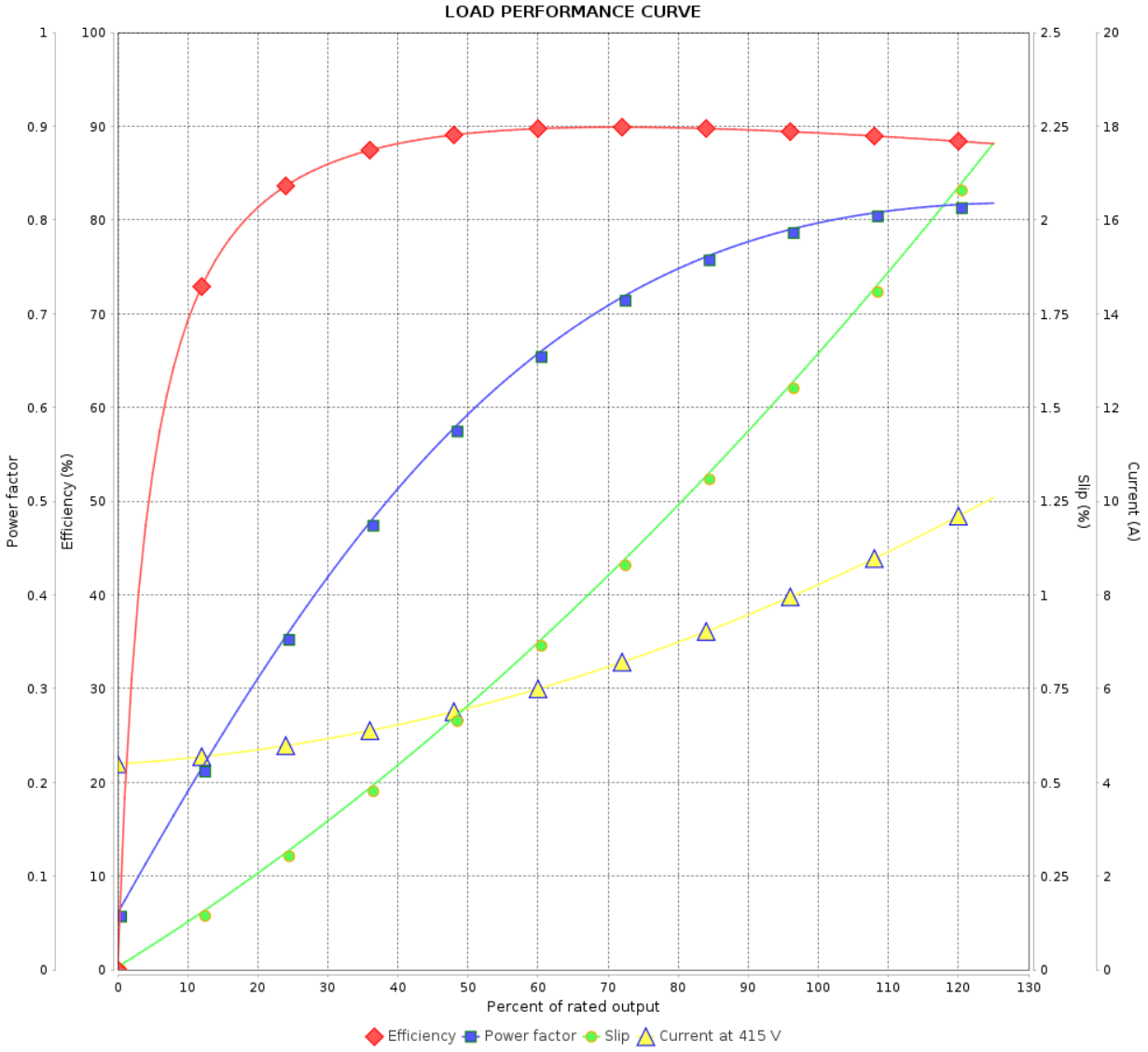
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase

Product code : 12675367



Performance	: 415 V 50 Hz 4P		
Rated current	: 8.09 A	Moment of inertia (J)	: 0.0375 kgm²
LRC	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

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