DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12675363

Frame	: 182/4TC	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	: 36.4 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0169 kgm²
Design	: B		

Output [HP]		3	3	3
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190-220/380	415
Rated current [A]		7.62/3.81	9.08-7.84/4.54	4.40
L. R. Amperes [A]		67.1/33.5	60.8-52.5/30.4	33.0
LRC [A]		8.8x(Code K)	6.7x(Code H)	7.5x(Code J)
No load current [A]		4.00/2.00	3.94-3.40/1.97	2.11
Rated speed [RPM]		1765	1455	1460
Slip [%]		1.94	3.00	2.67
Rated torque [kgfm]		1	1	1
Locked rotor torque [%]		220	180	200
Breakdown torque [%]		300	260	290
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		32s (cold) 18s (hot)	45s (cold) 25s (hot)	41s (cold) 23s (hot)
Noise level²		56.0 dB(A)	53.0 dB(A)	53.0 dB(A)
Efficiency (%)	25%	0.000	0.000	0.000
	50%	87.5	87.5	87.2
	75%	88.5	87.7	87.9
	100%	89.5	86.7	87.0
Power Factor	25%	0.00	0.00	0.00
	50%	0.61	0.68	0.65
	75%	0.74	0.79	0.77
	100%	0.81	0.85	0.83

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

Losses (%)	P1 (0,9;1,0)	12.6	13.6	13.7
	P2 (0,5;1,0)	10.6	11.4	11.6
	P3 (0,25;1,0)	10.2	10.9	11.1
	P4 (0,9;0,5)	6.8	7.3	7.4
	P5 (0,5;0,5)	4.8	5.1	5.2
	P6 (0,5;0,25)	3.5	3.8	3.8
	P7 (0,25;0,25)	2.6	2.8	2.8

		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 : 71 kgf

Max. compression : 110 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 8.43A SF 1.00 SFA 8.43A

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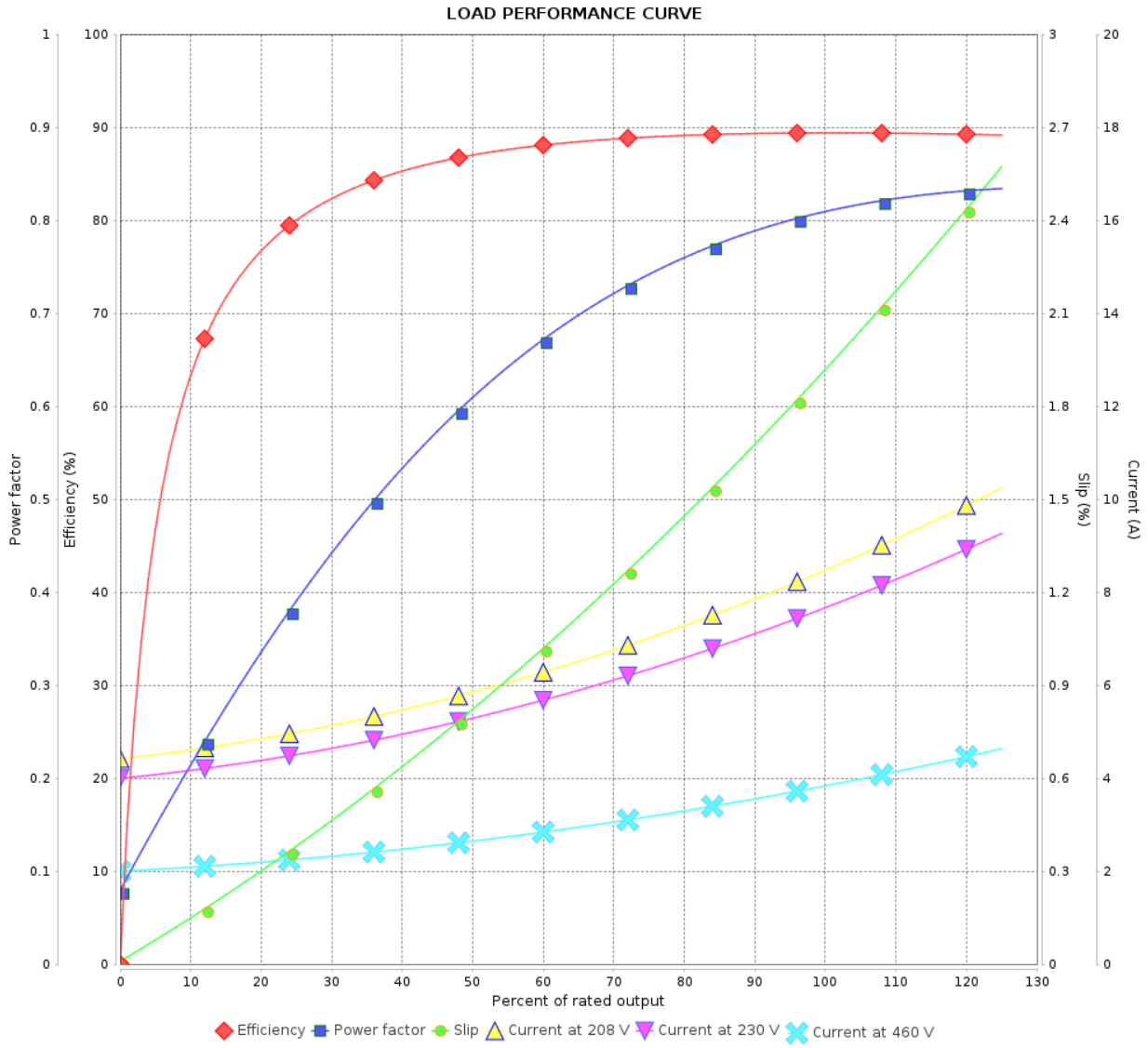
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12675363



Performance	: 230/460 V 60 Hz 4P

Rated current	: 7.62/3.81 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 8.8	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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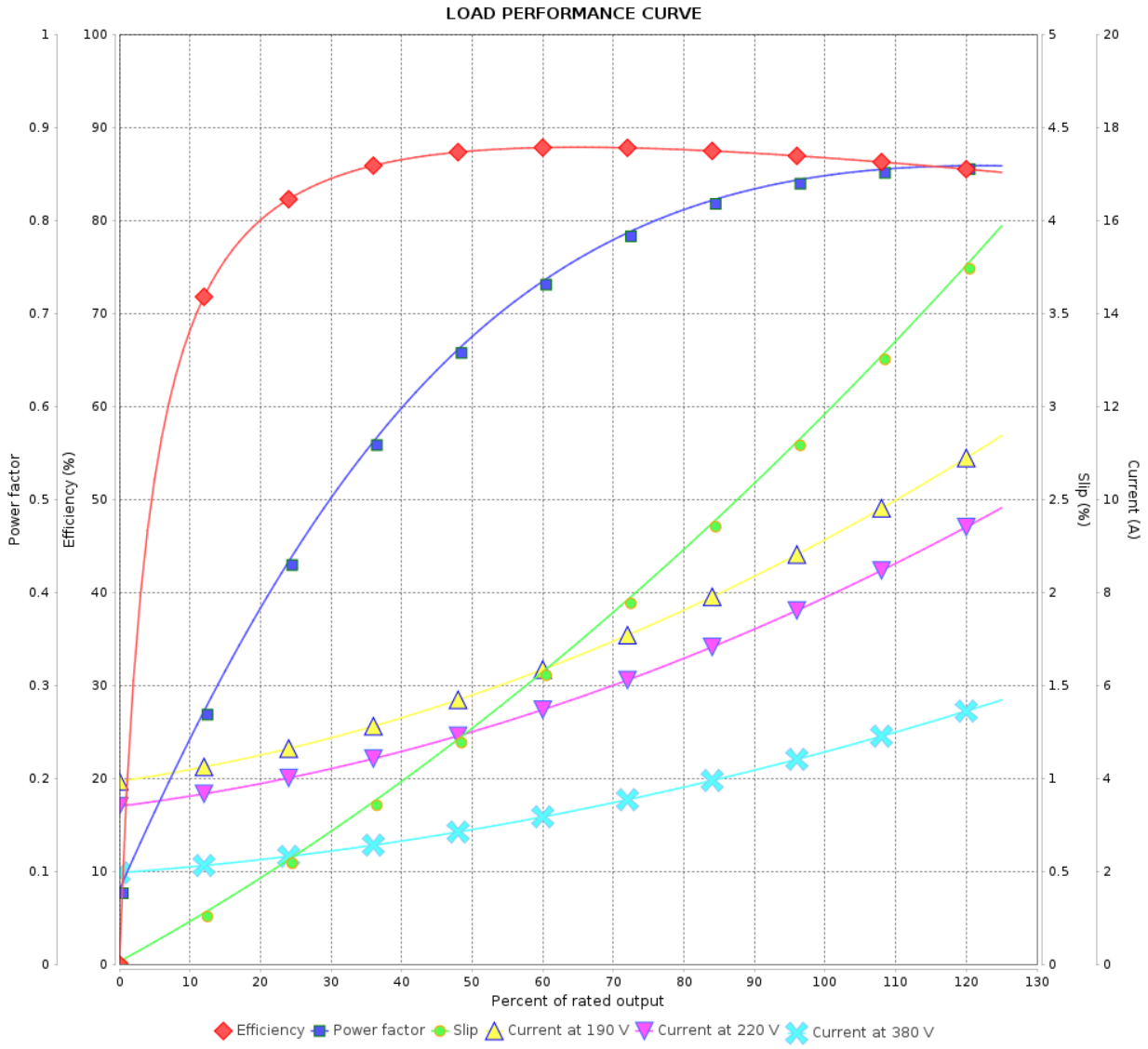
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Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12675363



Performance	: 190-220/380 V 50 Hz 4P		
Rated current	: 9.08-7.84/4.54 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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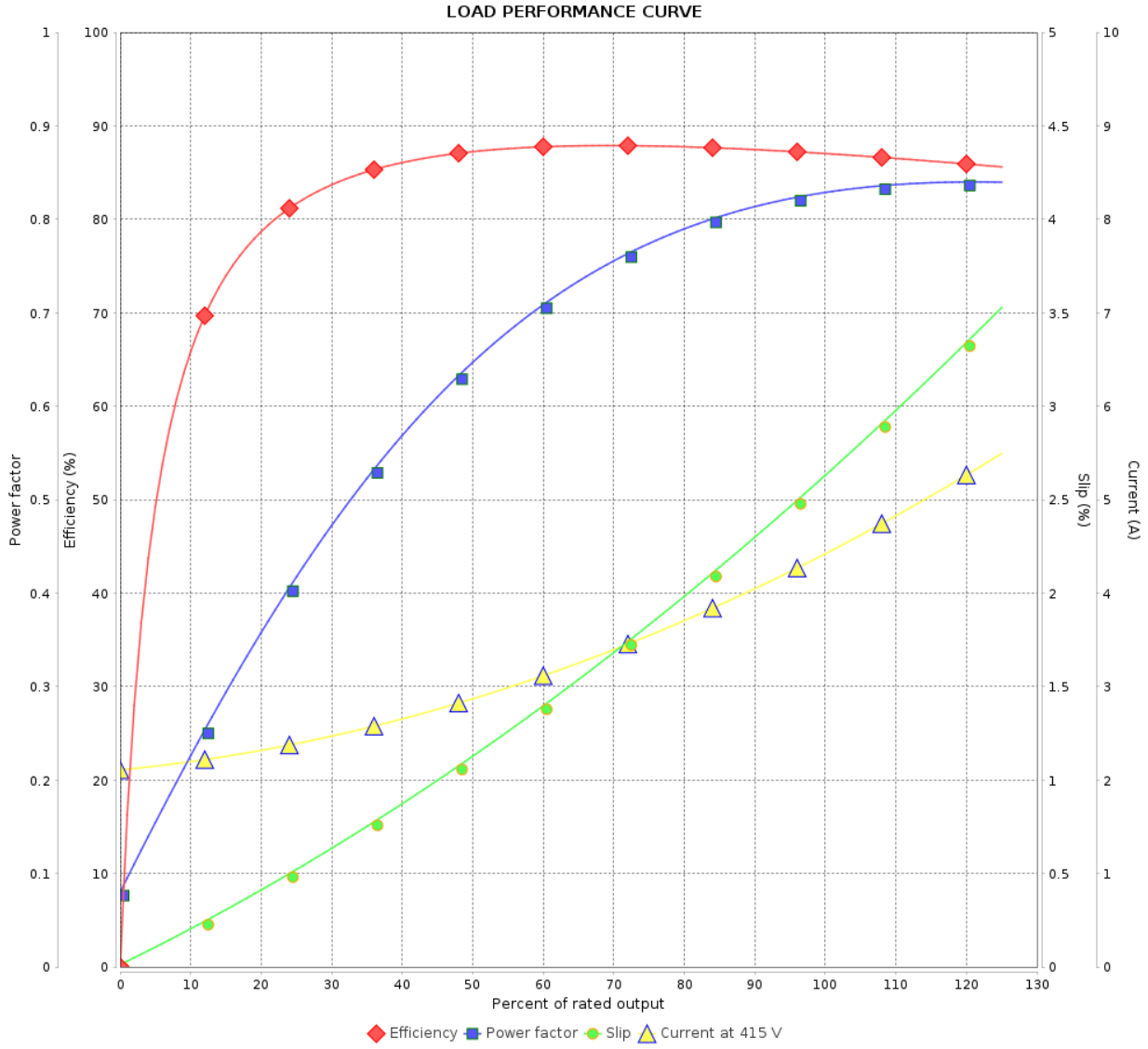
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase

Product code : 12675363



Performance	: 415 V 50 Hz 4P		
Rated current	: 4.40 A	Moment of inertia (J)	: 0.0169 kgm²
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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