DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12675358

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	: 73.2 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0303 kgm²
Design	: B		

Output [HP]		10	7.5	7.5
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190-220/380	415
Rated current [A]		23.7/11.9	21.5-18.6/10.8	10.2
L. R. Amperes [A]		178/88.9	170-147/85.1	90.1
LRC [A]		7.5x(Code H)	7.9x(Code J)	8.8x(Code K)
No load current [A]		8.60/4.30	8.60-7.43/4.30	5.00
Rated speed [RPM]		3530	2935	2950
Slip [%]		1.94	2.17	1.67
Rated torque [kgfm]		2	1	1
Locked rotor torque [%]		260	260	300
Breakdown torque [%]		300	320	360
Service factor		1.15	1.00	1.00
Temperature rise		80 K	80 K	80 K
Locked rotor time		28s (cold) 16s (hot)	34s (cold) 19s (hot)	32s (cold) 18s (hot)
Noise level²		70.0 dB(A)	67.0 dB(A)	67.0 dB(A)
Efficiency (%)	25%			
	50%	89.5	89.0	89.4
	75%	90.2	89.2	89.8
	100%	90.2	89.2	90.0
Power Factor	25%			
	50%	0.75	0.72	0.64
	75%	0.84	0.82	0.76
	100%	0.88	0.87	0.83

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

Losses (%)	P1 (0,9;1,0)	9.6	10.8	10.4
	P2 (0,5;1,0)	7.7	8.6	8.4
	P3 (0,25;1,0)	7.5	8.4	8.2
	P4 (0,9;0,5)	5.4	6.0	5.9
	P5 (0,5;0,5)	3.4	3.9	3.7
	P6 (0,5;0,25)	2.5	2.8	2.7
	P7 (0,25;0,25)	1.7	1.9	1.8

		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 : 92 kgf

Max. compression : 153 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 25.4A SF 1.00 SFA 25.4A

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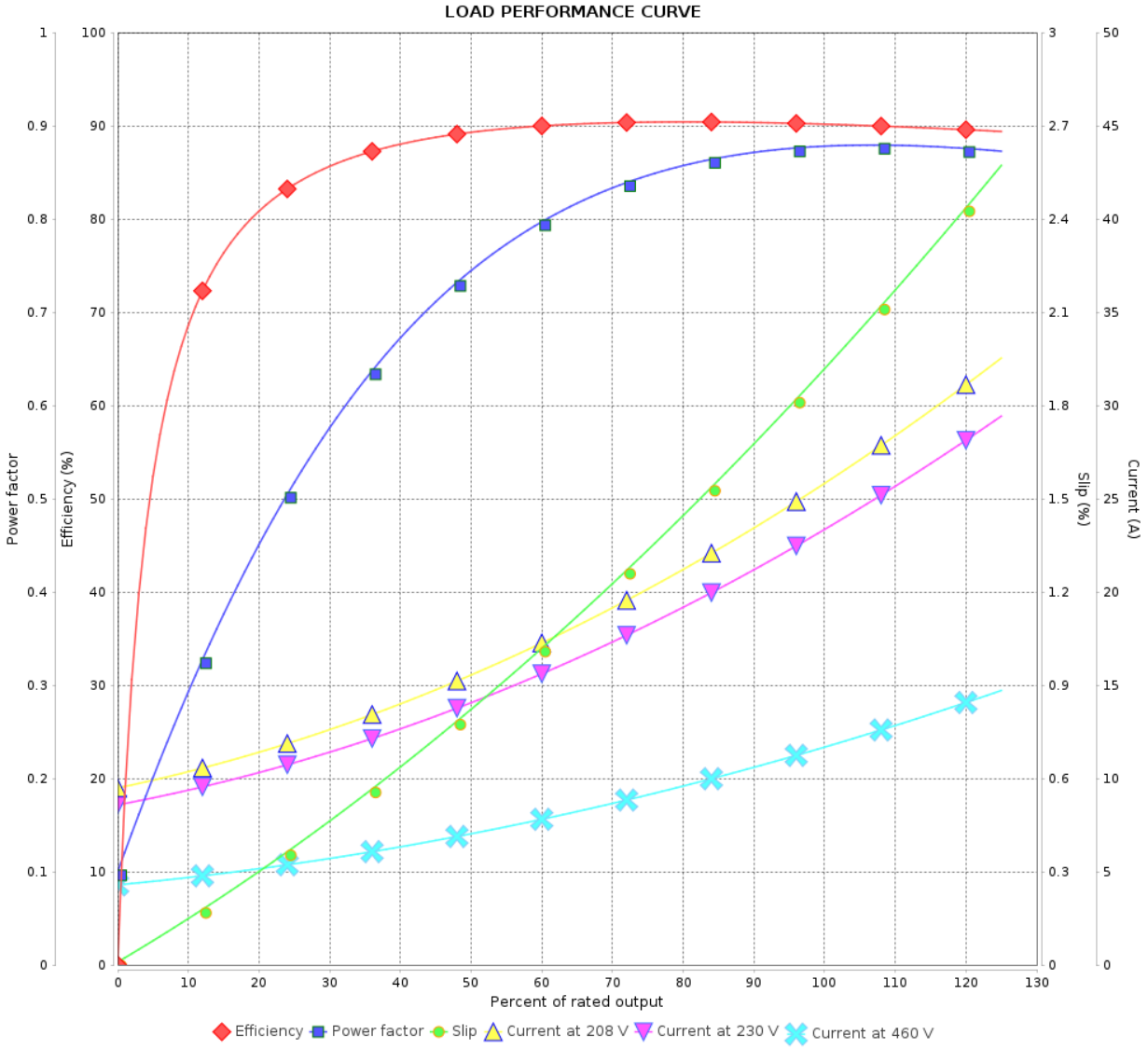
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase

Product code : 12675358



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 23.7/11.9 A	Moment of inertia (J)	: 0.0303 kgm²
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

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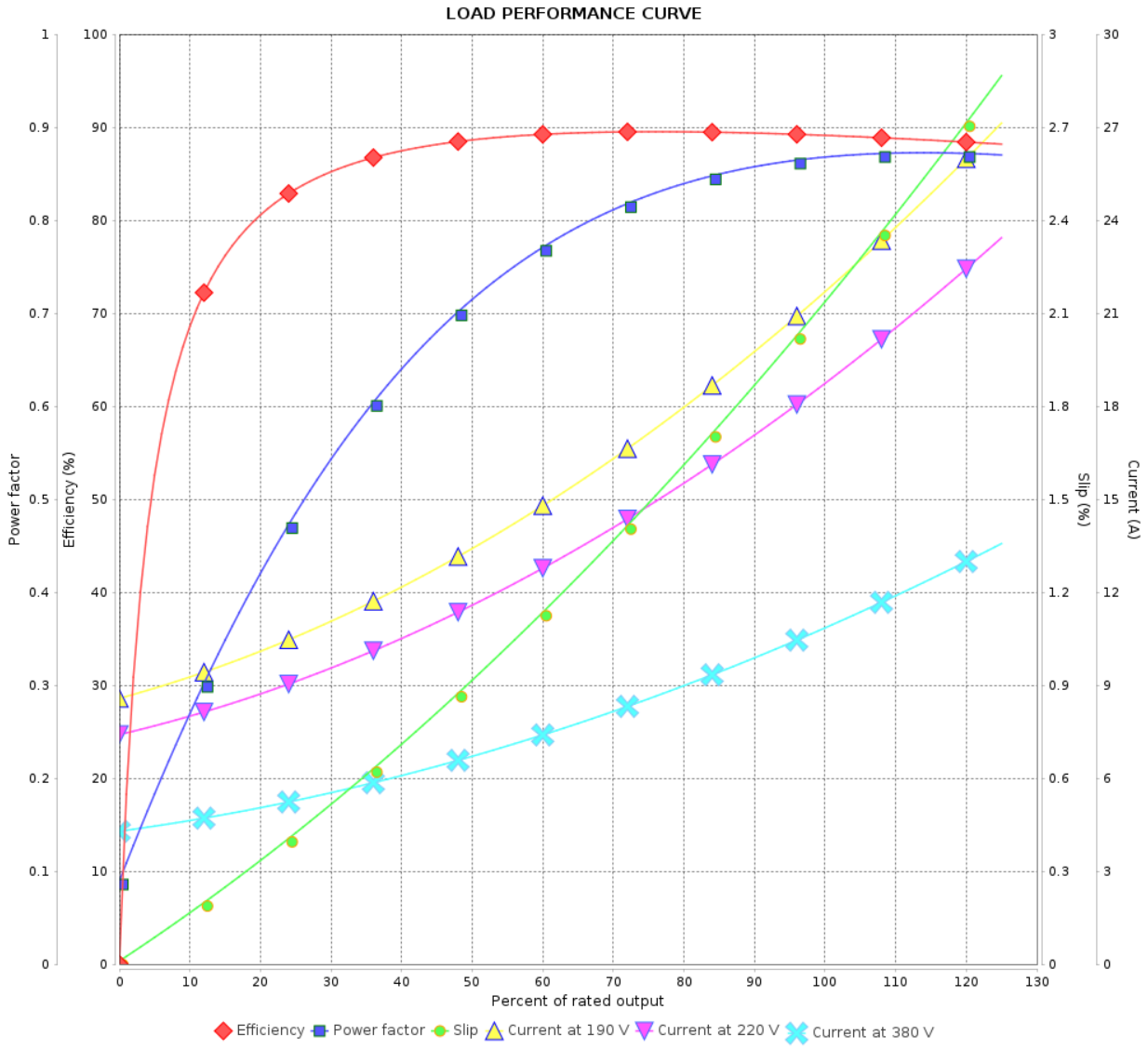
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Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12675358



Performance	: 190-220/380 V 50 Hz 2P		
Rated current	: 21.5-18.6/10.8 A	Moment of inertia (J)	: 0.0303 kgm²
LRC	: 7.9	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 2935 rpm	Design	: B

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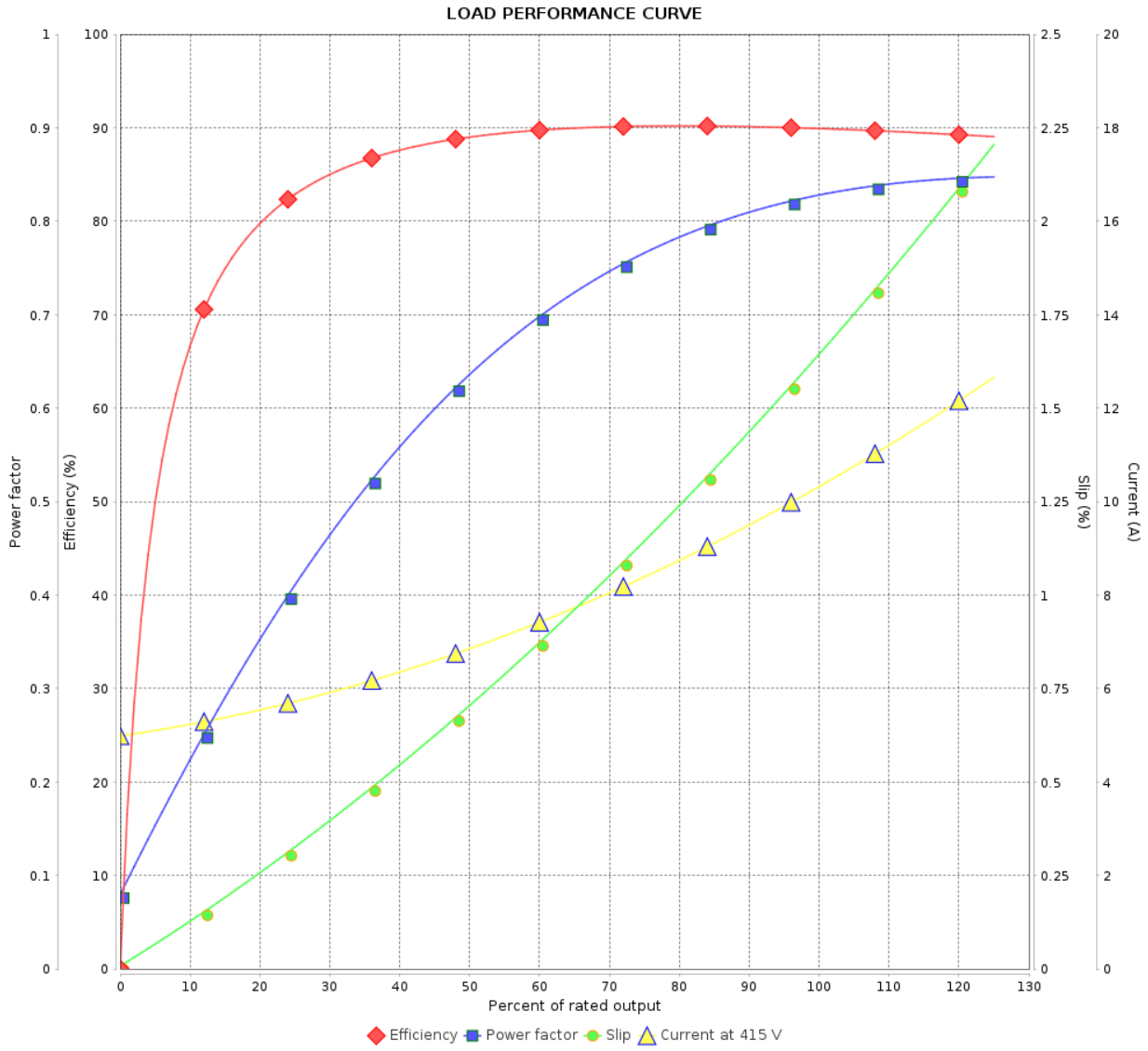
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Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12675358



Performance	: 415 V 50 Hz 2P		
Rated current	: 10.2 A	Moment of inertia (J)	: 0.0303 kgm²
LRC	: 8.8	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.00
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: B

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