DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase

Product code : 11083242

Frame	: 213/5JM	Cooling method	: IC01 - ODP
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	: 58.9 kg
Protection degree	: IP21	Moment of inertia (J)	: 0.0243 kgm²
Design	: B		

Output [HP]		15	10	10	10	15	15	15
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		34.8/17.4	14.3	13.7	13.4	21.5	20.6	19.9
L. R. Amperes [A]		251/125	93.0	95.9	93.8	112	122	127
LRC [A]		7.2x(Code H)	6.5x(Code J)	7.0x(Code K)	7.0x(Code K)	5.2x(Code F)	5.9x(Code G)	6.4x(Code G)
No load current [A]		11.6/5.80	5.50	5.60	5.70	5.12	5.90	6.68
Rated speed [RPM]		3515	2930	2935	2935	2885	2900	2910
Slip [%]		2.36	2.33	2.17	2.17	3.83	3.33	3.00
Rated torque [kgfm]		3.10	2.47	2.47	2.46	3.79	3.76	3.74
Locked rotor torque [%]		210	210	229	250	170	190	210
Breakdown torque [%]		270	280	310	330	229	260	290
Service factor		1.15	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		16s (cold) 9s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)
Noise level²		69.0 dB(A)						
Efficiency (%)	25%							
	50%	90.2	88.0	88.0	89.0	86.5	86.5	86.5
	75%	91.0	90.0	90.0	90.0	86.5	86.5	87.5
	100%	91.0	90.5	90.5	90.7	86.5	86.5	87.5
Power Factor	25%							
	50%	0.73	0.75	0.74	0.70	0.84	0.80	0.76
	75%	0.82	0.85	0.83	0.81	0.89	0.86	0.84
	100%	0.87	0.88	0.87	0.86	0.90	0.89	0.88

		Drive end	Non drive end
Bearing type	:	6209 ZZ	6206 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads
Max. traction : 171 kgf
Max. compression : 230 kgf

Notes
USABLE @208V 38.5A SF 1.15 SFA 44.3A

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).
(3) Approximate weight subject to changes after manufacturing process.
(4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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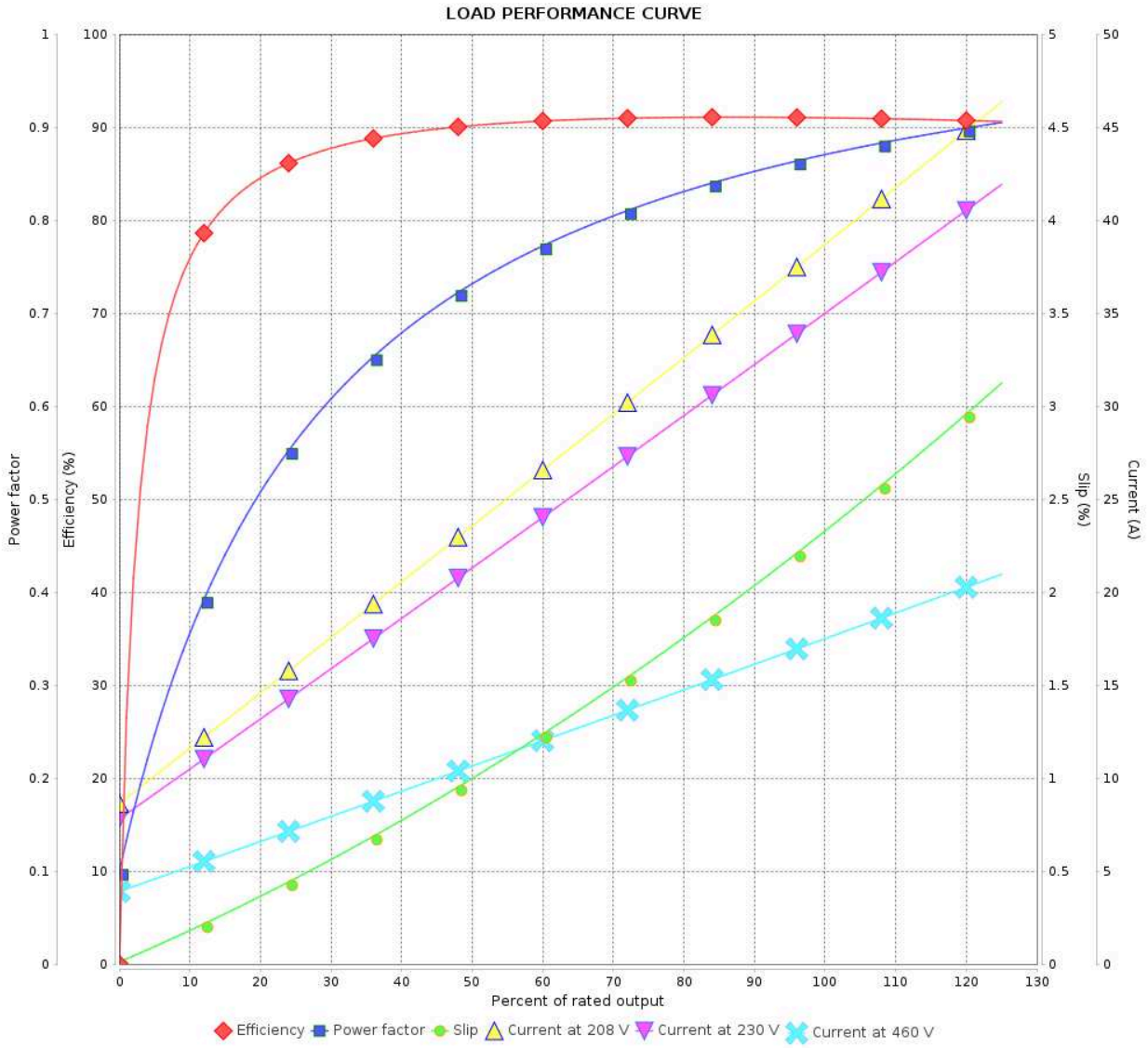
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase

Product code : 11083242



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 34.8/17.4 A	Moment of inertia (J)	: 0.0243 kgm²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 3.10 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm	Design	: B

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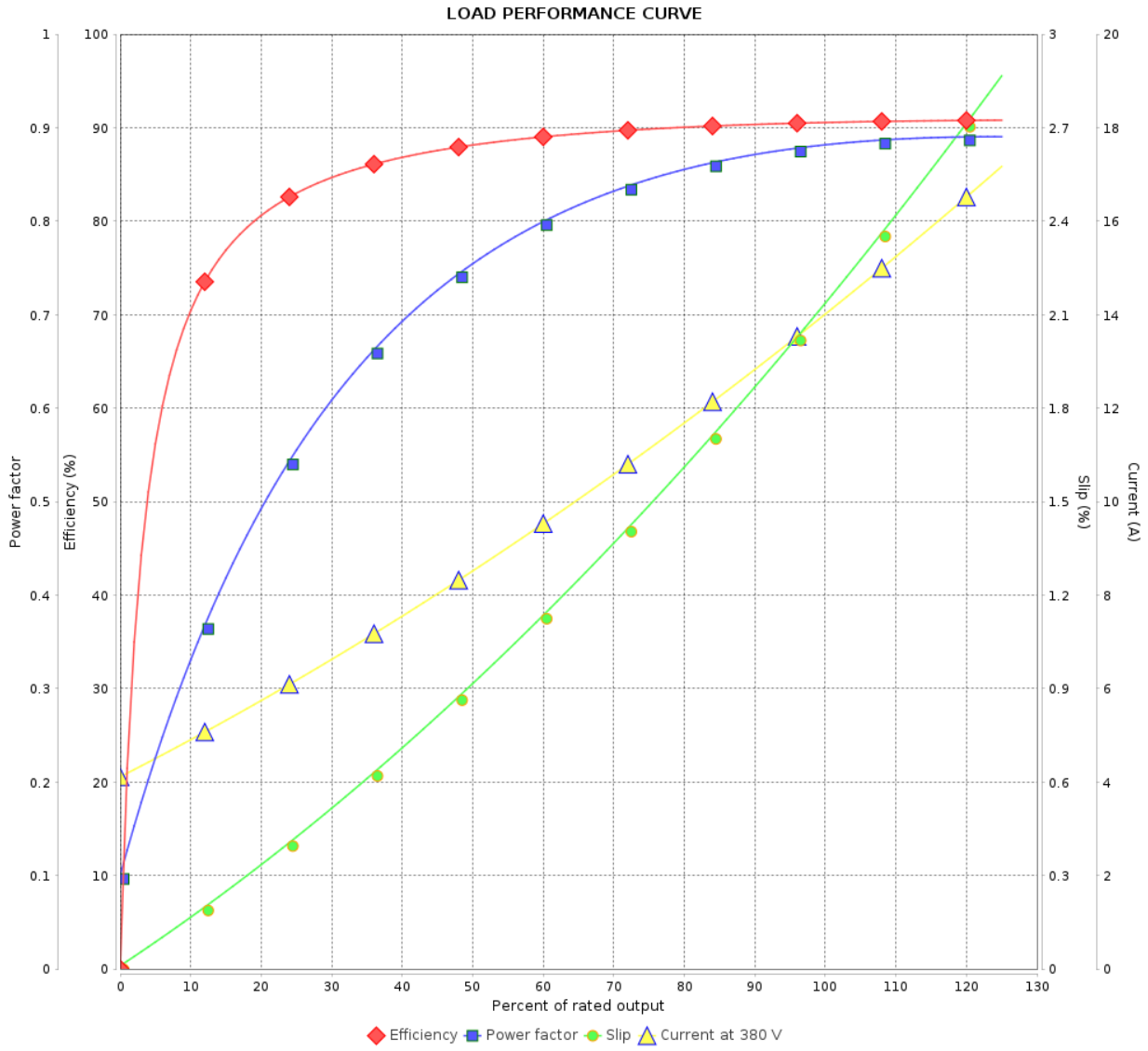
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase

Product code : 11083242



Performance	: 380 V 50 Hz 2P IE3		
Rated current	: 14.3 A	Moment of inertia (J)	: 0.0243 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 2.47 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2930 rpm	Design	: B

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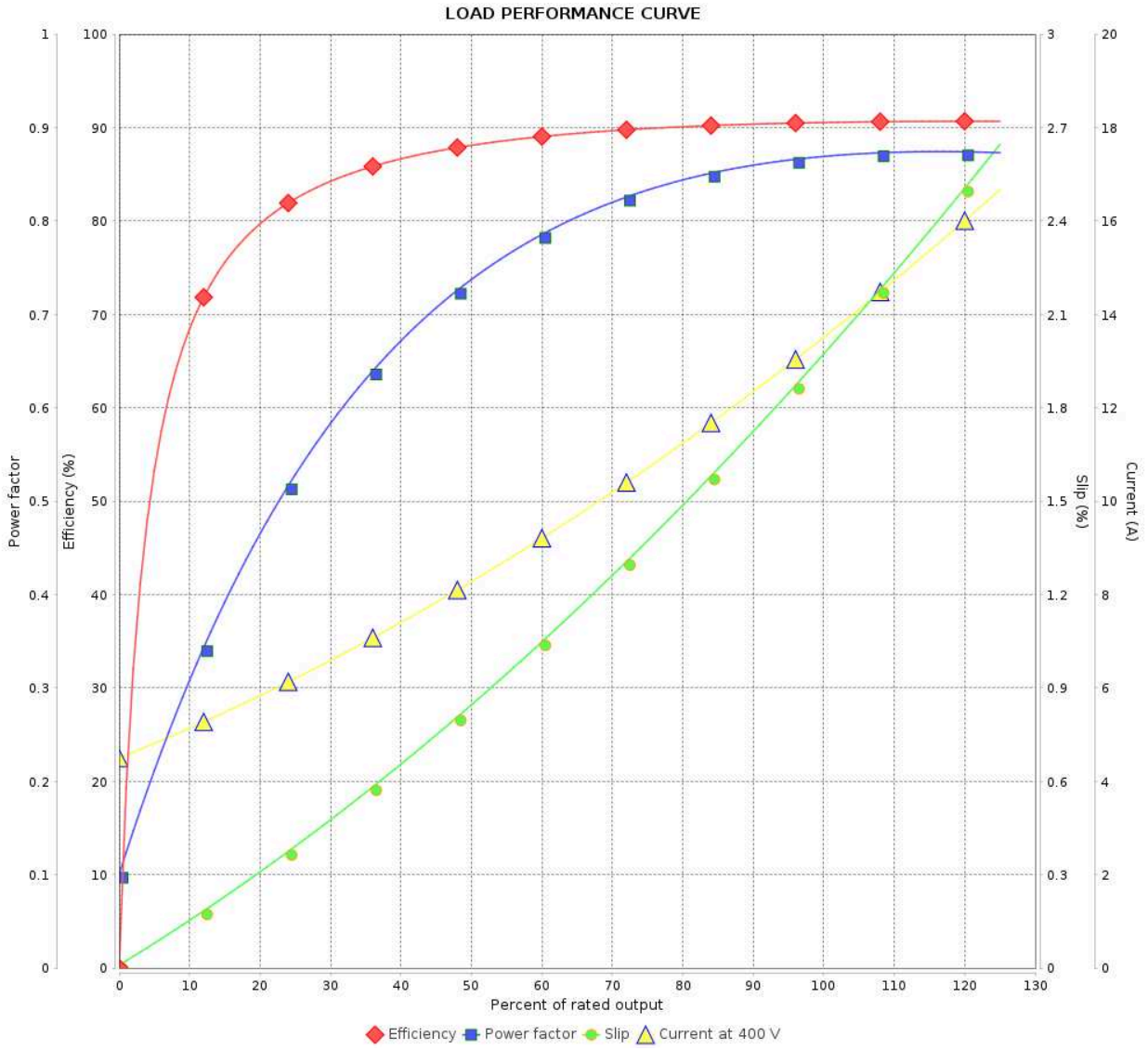
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase

Product code : 11083242



Performance	: 400 V 50 Hz 2P IE3		
Rated current	: 13.7 A	Moment of inertia (J)	: 0.0243 kgm²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 2.47 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2935 rpm	Design	: B

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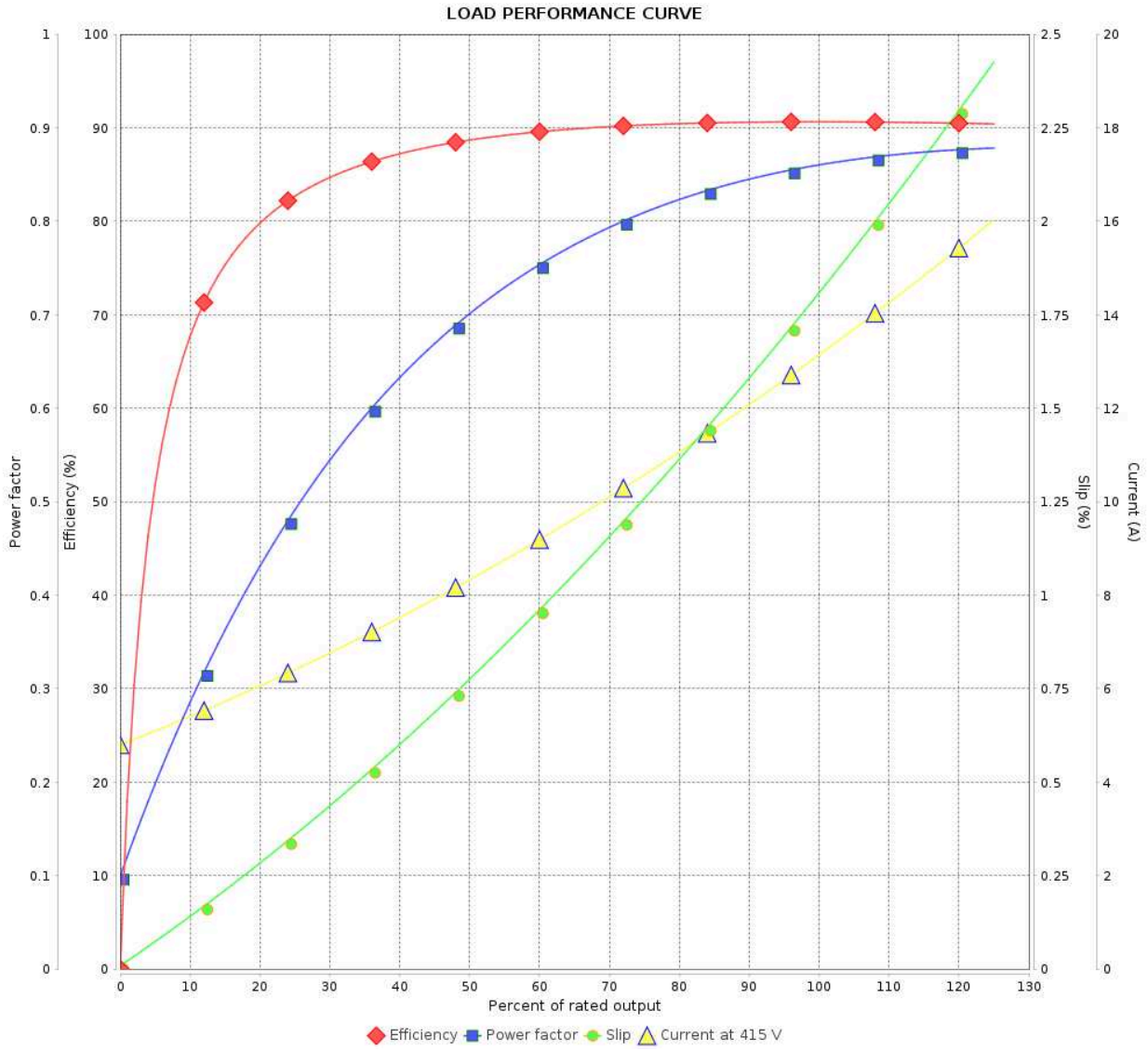
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase

Product code : 11083242



Performance	: 415 V 50 Hz 2P IE3		
Rated current	: 13.4 A	Moment of inertia (J)	: 0.0243 kgm²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 2.46 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 2935 rpm	Design	: B

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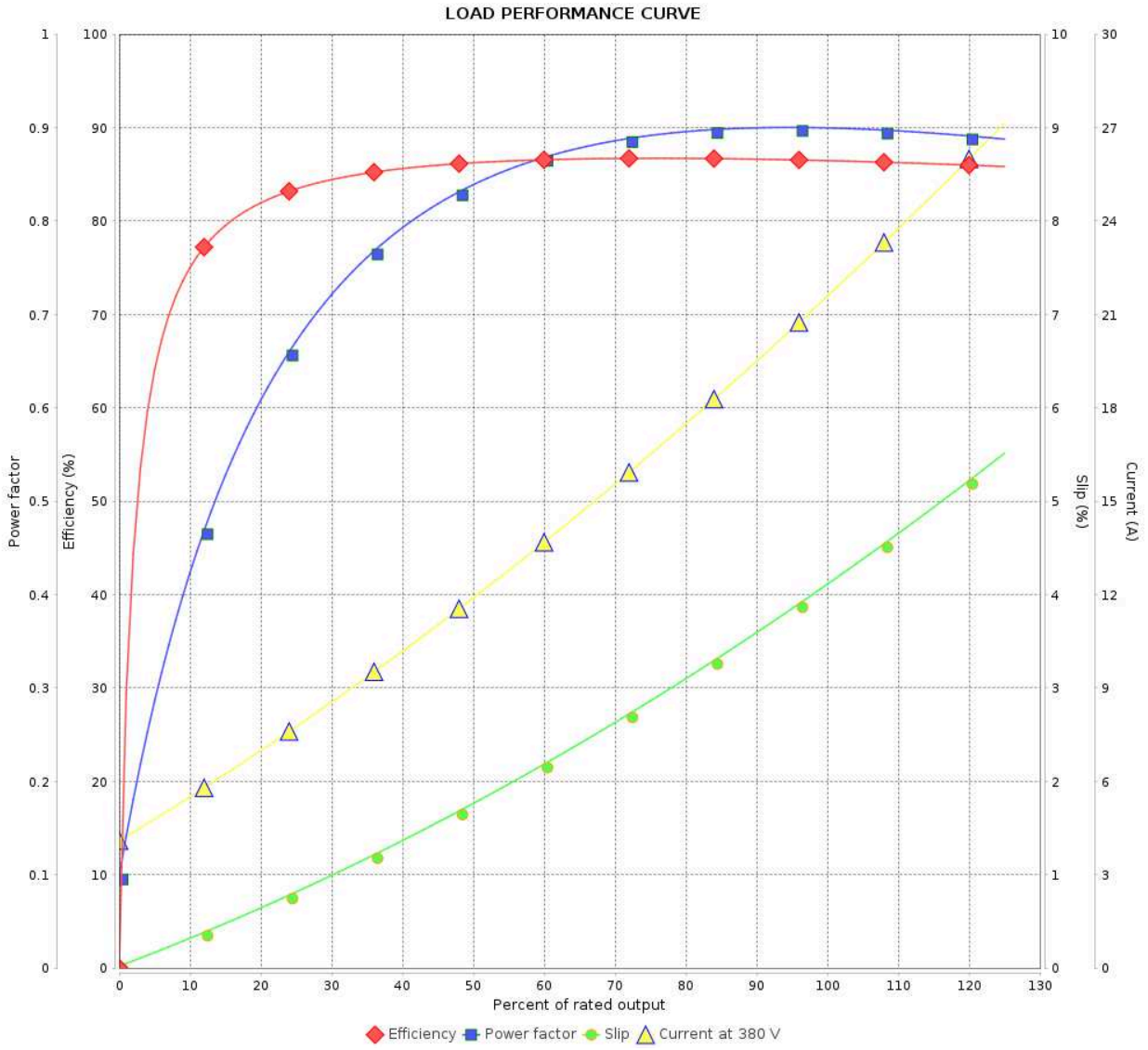
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase

Product code : 11083242



Performance	: 380 V 50 Hz 2P		
Rated current	: 21.5 A	Moment of inertia (J)	: 0.0243 kgm²
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 3.79 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 2885 rpm	Design	: B

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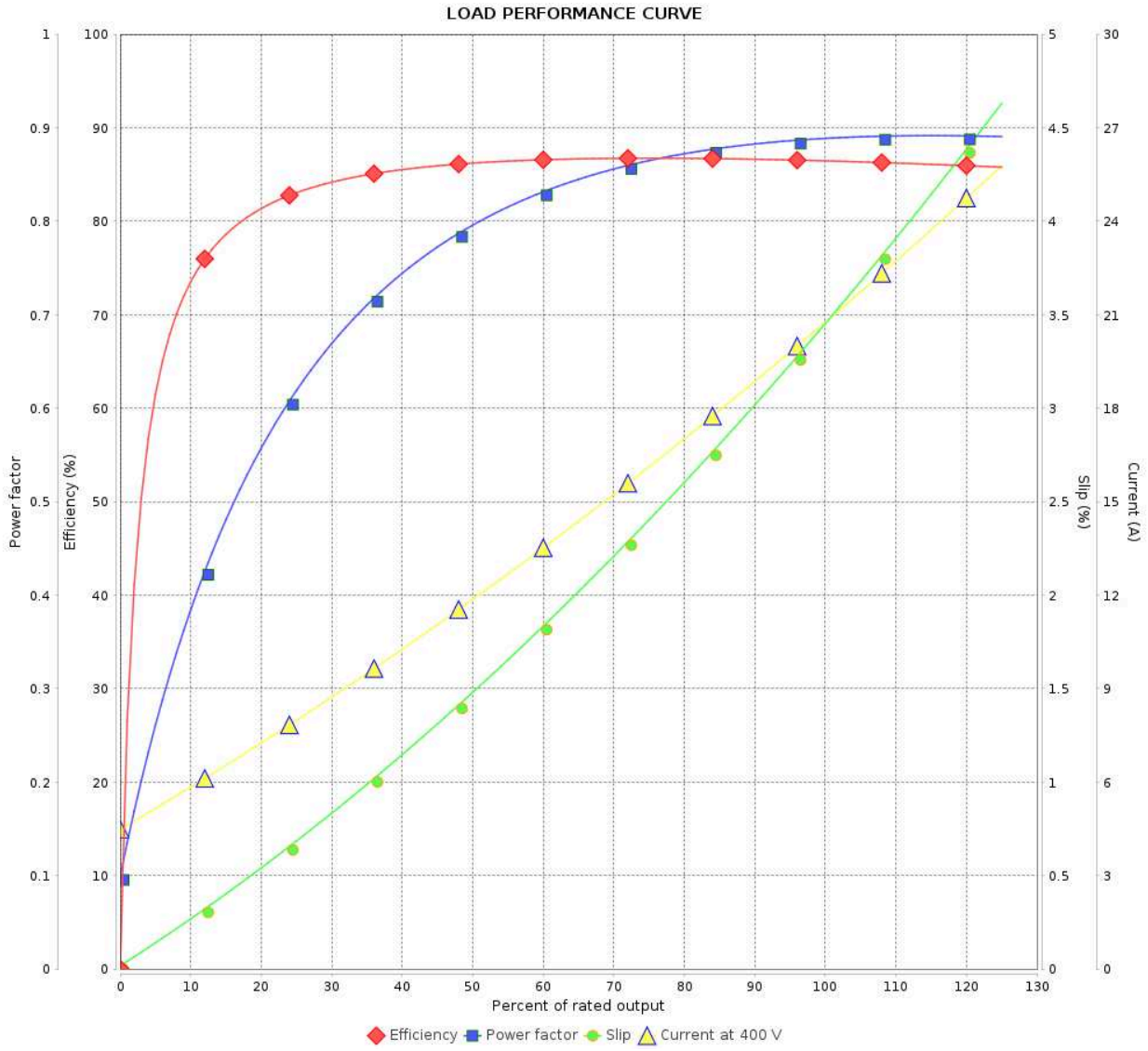
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase

Product code : 11083242



Performance	: 400 V 50 Hz 2P

Rated current	: 20.6 A	Moment of inertia (J)	: 0.0243 kgm²
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 3.76 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2900 rpm	Design	: B

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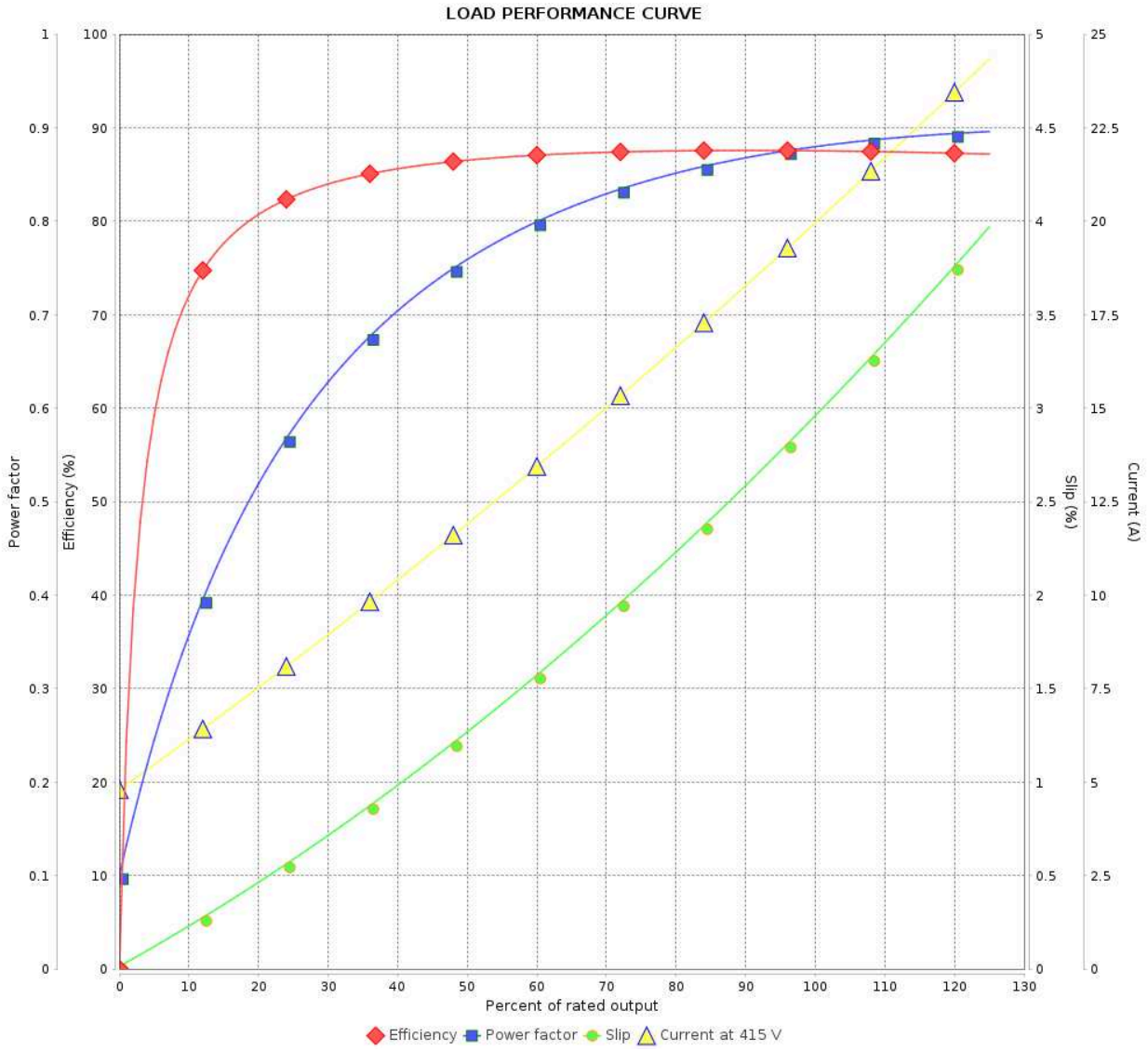
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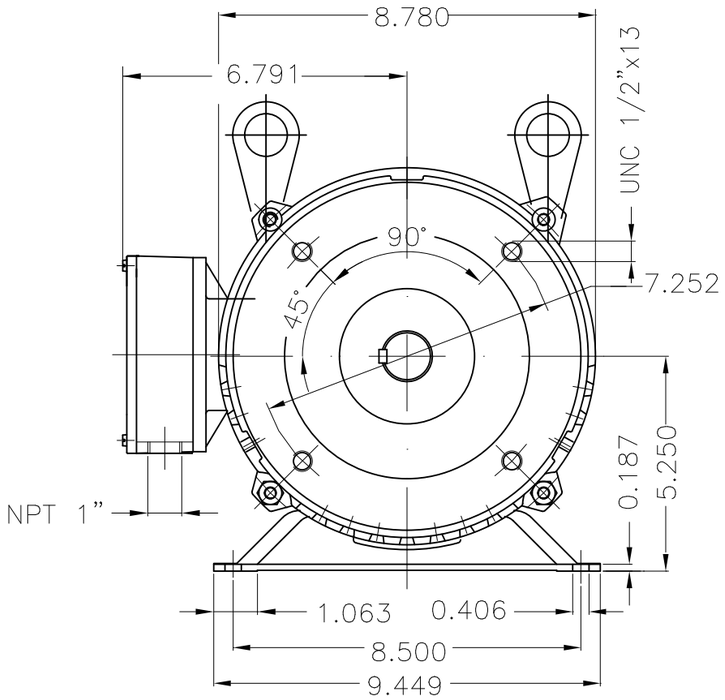


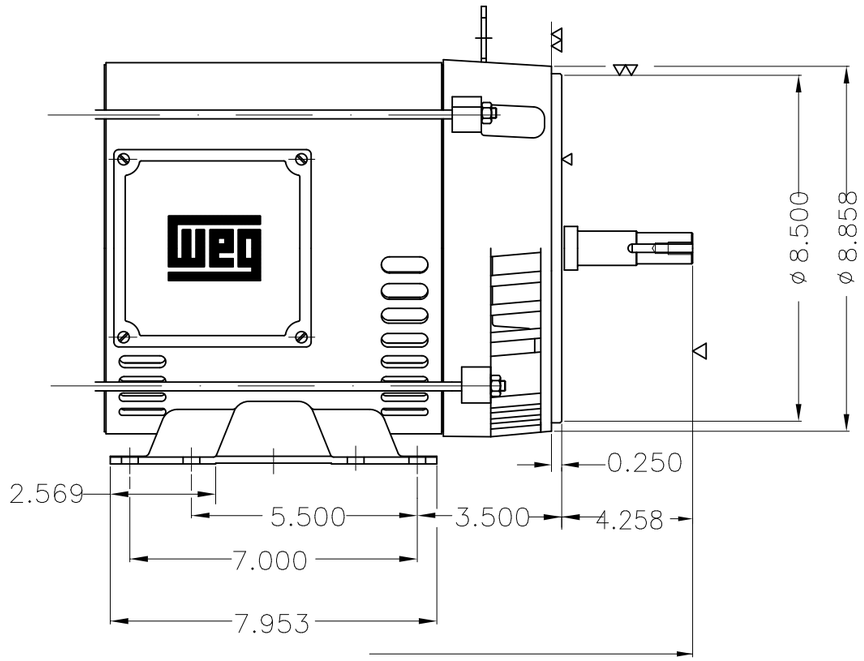
Performance	: 415 V 50 Hz 2P		
Rated current	: 19.9 A	Moment of inertia (J)	: 0.0243 kgm²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 3.74 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: B

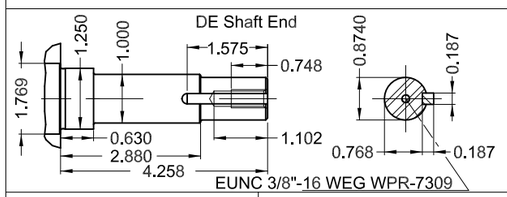
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Without switch off thermal protection
Color RAL 5009
Painting plan 207A
Mounting B34R(D)

15 HP 02 Poles 60 Hz — A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
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EXECUTED	HYBRISUSER	THREE PH. MOTOR JM/JP/JET PUMP NEMA PREM. EFF.	PREVIEW
CHECKED		FRAME 213/5JM IP21 ODP	WDD 00
RELEASED			
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1

Dimensions in inches

XME A3

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