DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 11168186

Frame	: 213/5JM	Cooling method	: IC01 - ODP
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]	: 57.4 kg
Protection degree	: IP21	Moment of inertia (J)	: 0.0504 kgm²
Design	: B		

Output [HP]		10	7.5	7.5	7.5	10	10	10
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		24.7/12.4	11.5	11.4	11.4	15.1	14.5	14.2
L. R. Amperes [A]		161/80.4	82.9	87.5	93.2	78.7	84.3	89.6
LRC [A]		6.5x(Code H)	7.2x(Code J)	7.7x(Code K)	8.2x(Code K)	5.2x(Code F)	5.8x(Code G)	6.3x(Code H)
No load current [A]		10.9/5.45	5.50	6.00	6.50	5.50	6.00	6.50
Rated speed [RPM]		1765	1470	1475	1475	1450	1455	1460
Slip [%]		1.94	2.00	1.67	1.67	3.33	3.00	2.67
Rated torque [kgfm]		4.11	3.70	3.69	3.69	5.01	4.99	4.97
Locked rotor torque [%]		210	220	260	280	170	180	200
Breakdown torque [%]		290	290	320	360	210	229	250
Service factor		1.15	1.15	1.15	1.15	1.00	1.00	1.15
Temperature rise		105 K	105 K	105 K	105 K	105 K	105 K	105 K
Locked rotor time		10s (cold) 6s (hot)	9s (cold) 5s (hot)	9s (cold) 5s (hot)	9s (cold) 5s (hot)	9s (cold) 5s (hot)	9s (cold) 5s (hot)	9s (cold) 5s (hot)
Noise level[2]		59.0 dB(A)						
Efficiency (%)	25%							
	50%	90.2	85.1	85.1	85.0	87.5	87.7	88.2
	75%	91.0	87.5	88.0	88.4	87.5	88.5	88.7
	100%	91.7	89.6	89.6	89.7	87.5	88.7	89.5
Power Factor	25%							
	50%	0.64	0.59	0.55	0.51	0.69	0.65	0.61
	75%	0.76	0.72	0.69	0.65	0.80	0.77	0.75
	100%	0.83	0.81	0.78	0.75	0.86	0.84	0.82

		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 : 201 kgf

Max. compression : 258 kgf

Notes

USABLE @208V 27.0A SF 1.15 SFA 31.0A

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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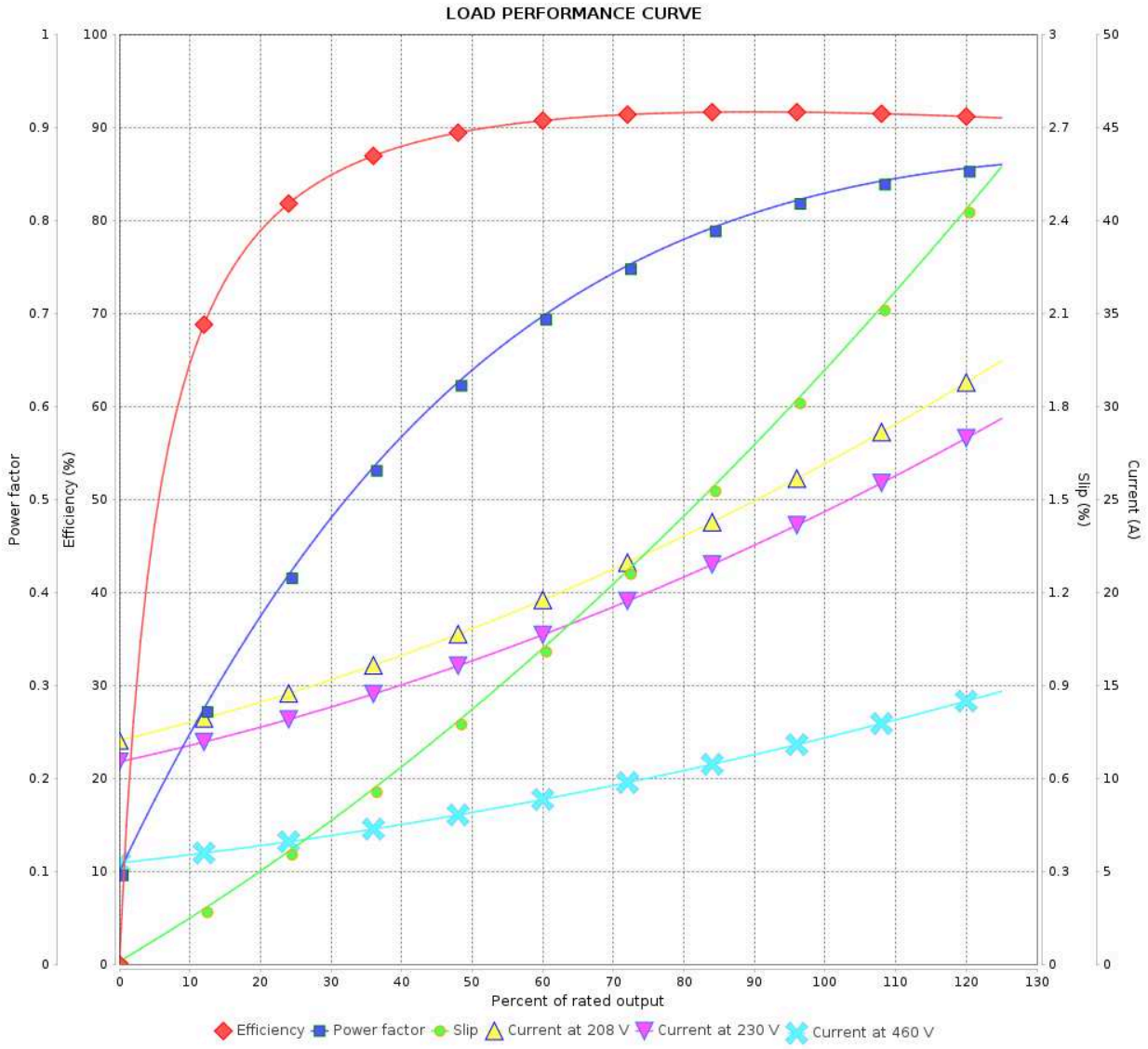
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Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 11168186



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 24.7/12.4 A	Moment of inertia (J)	: 0.0504 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 4.11 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 105 K
Rated speed	: 1765 rpm	Design	: B

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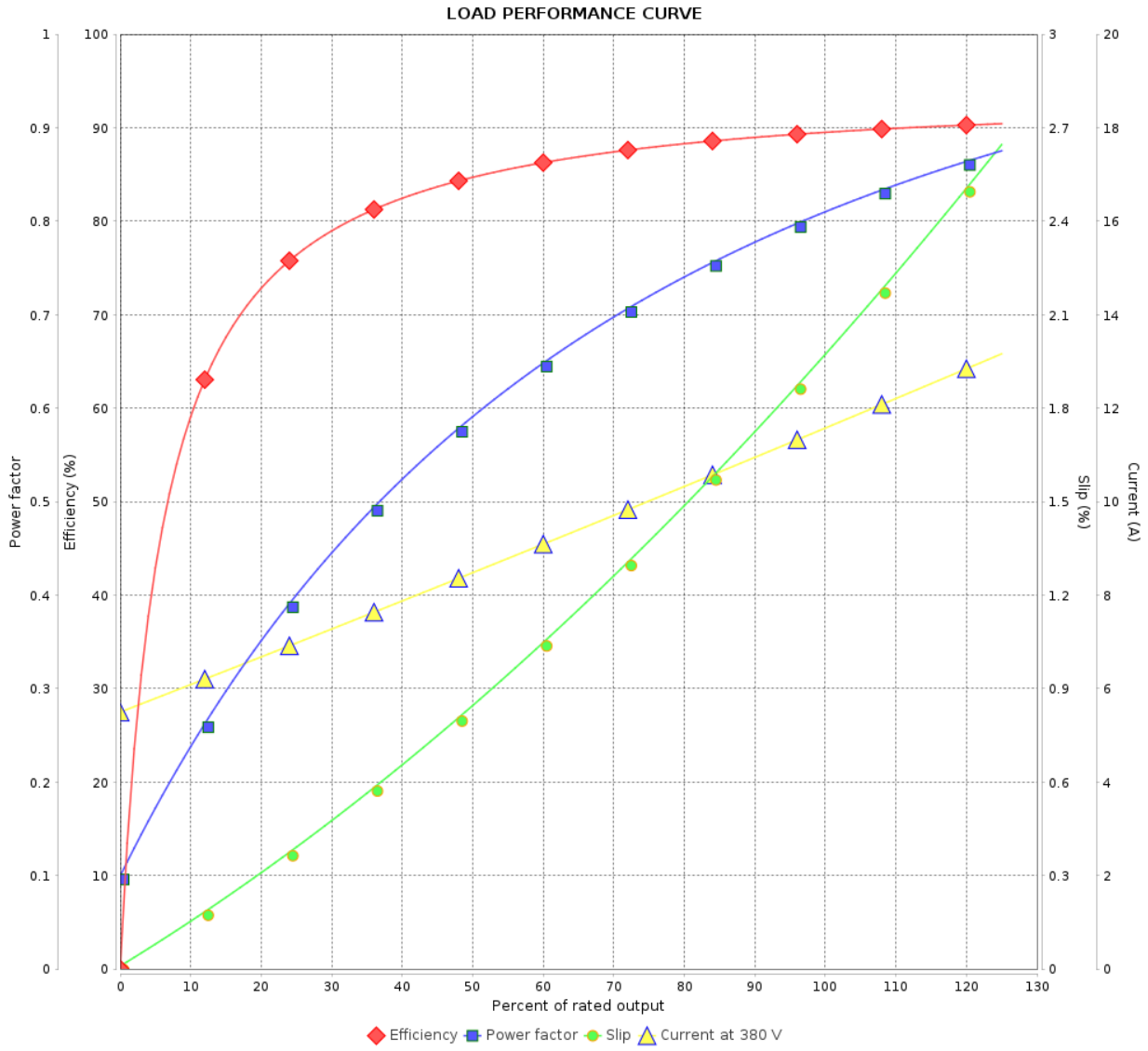
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Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 11168186



Performance	: 380 V 50 Hz 4P IE3		
Rated current	: 11.5 A	Moment of inertia (J)	: 0.0504 kgm²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 3.70 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 105 K
Rated speed	: 1470 rpm	Design	: B

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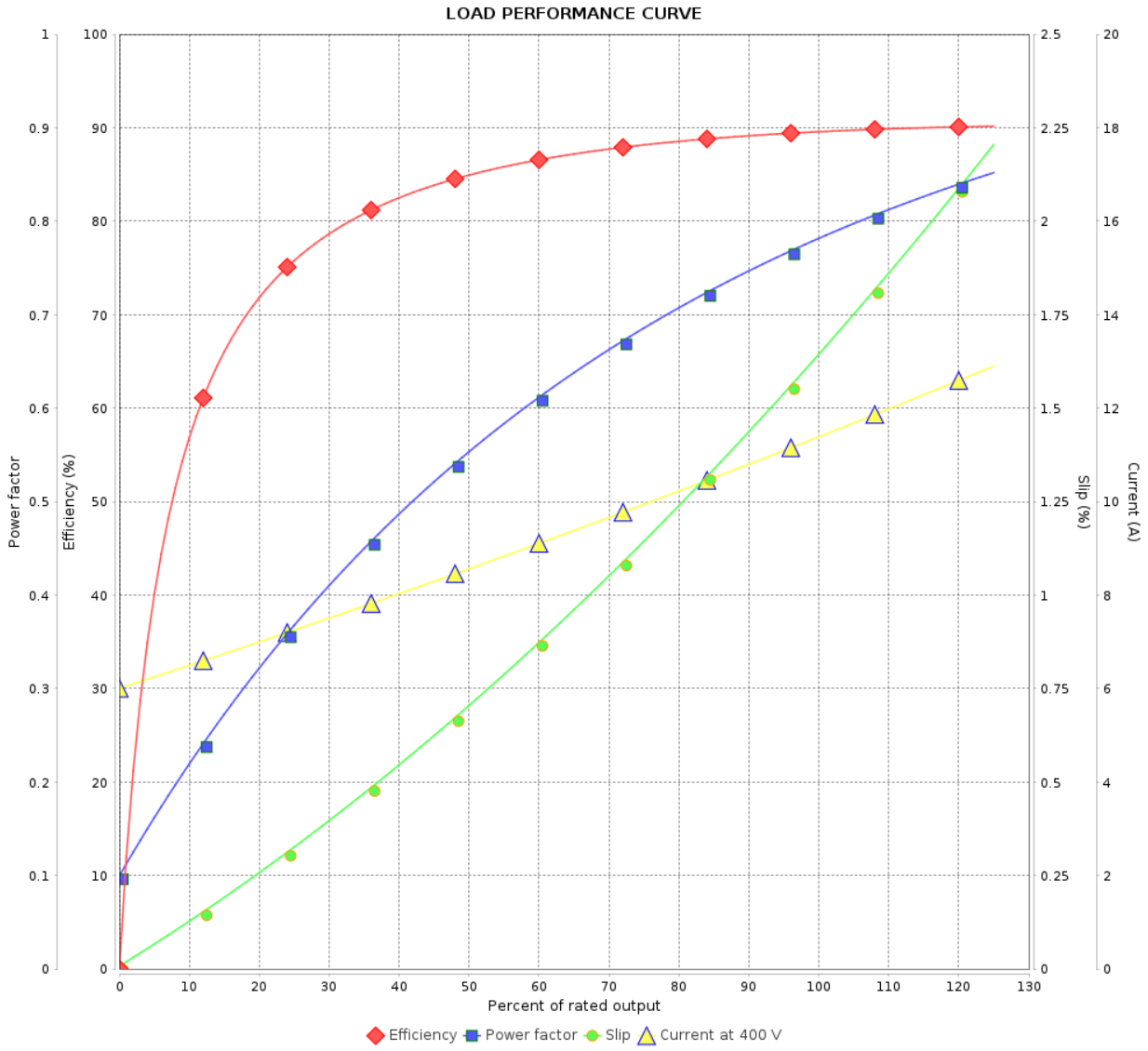
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Close Coupled Pump NEMA Premium Efficiency Three-Phase	Product code :	11168186



Performance	: 400 V 50 Hz 4P IE3

Rated current	: 11.4 A	Moment of inertia (J)	: 0.0504 kgm²
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 3.69 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 105 K
Rated speed	: 1475 rpm	Design	: B

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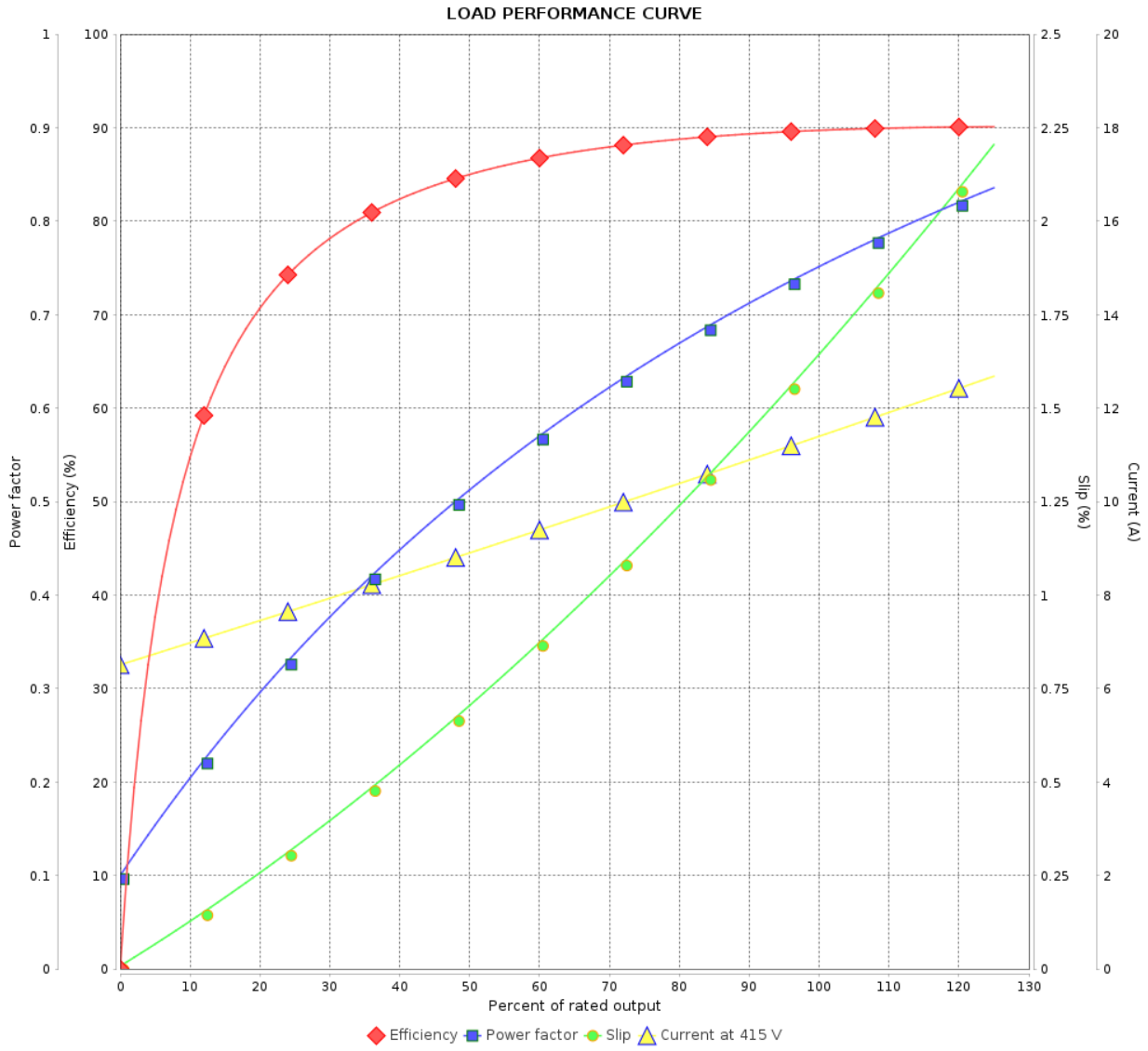
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Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 11168186



Performance	: 415 V 50 Hz 4P IE3		
Rated current	: 11.4 A	Moment of inertia (J)	: 0.0504 kgm²
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 3.69 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 360 %	Temperature rise	: 105 K
Rated speed	: 1475 rpm	Design	: B

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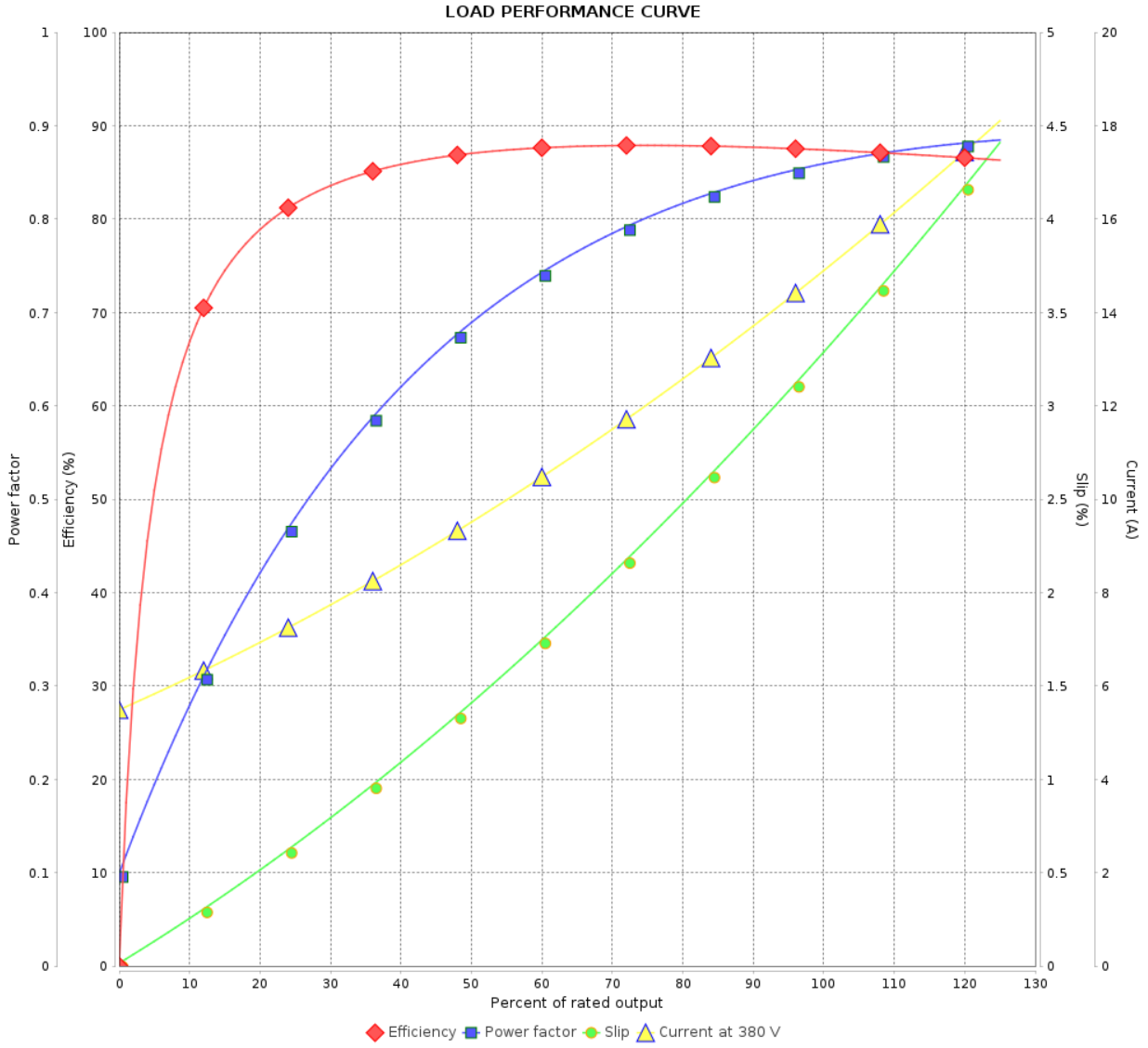
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Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 11168186



Performance	: 380 V 50 Hz 4P IE1		
Rated current	: 15.1 A	Moment of inertia (J)	: 0.0504 kgm²
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 5.01 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 1450 rpm	Design	: B

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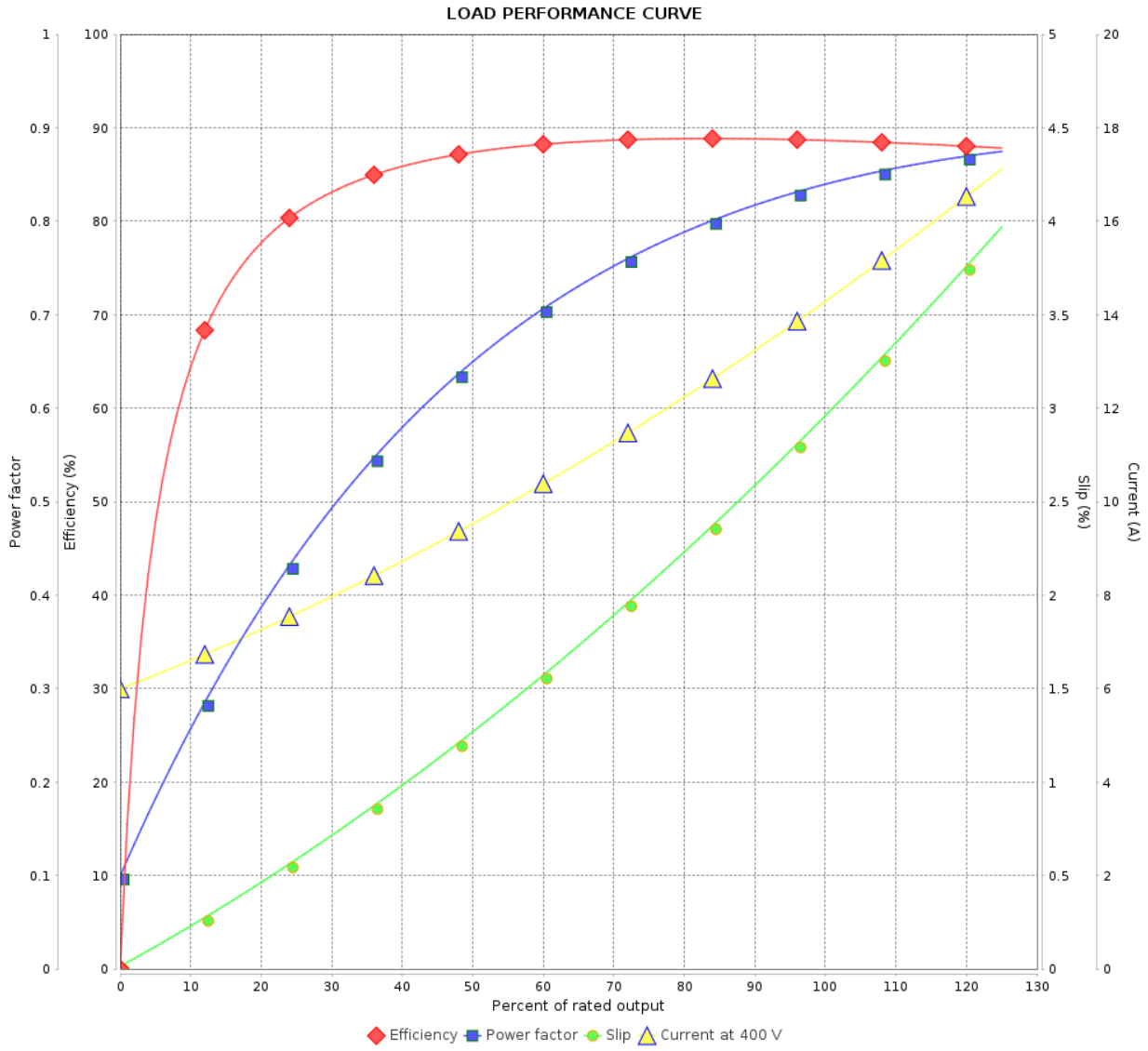
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Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 11168186



Performance	: 400 V 50 Hz 4P IE2		
Rated current	: 14.5 A	Moment of inertia (J)	: 0.0504 kgm²
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 4.99 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 1455 rpm	Design	: B

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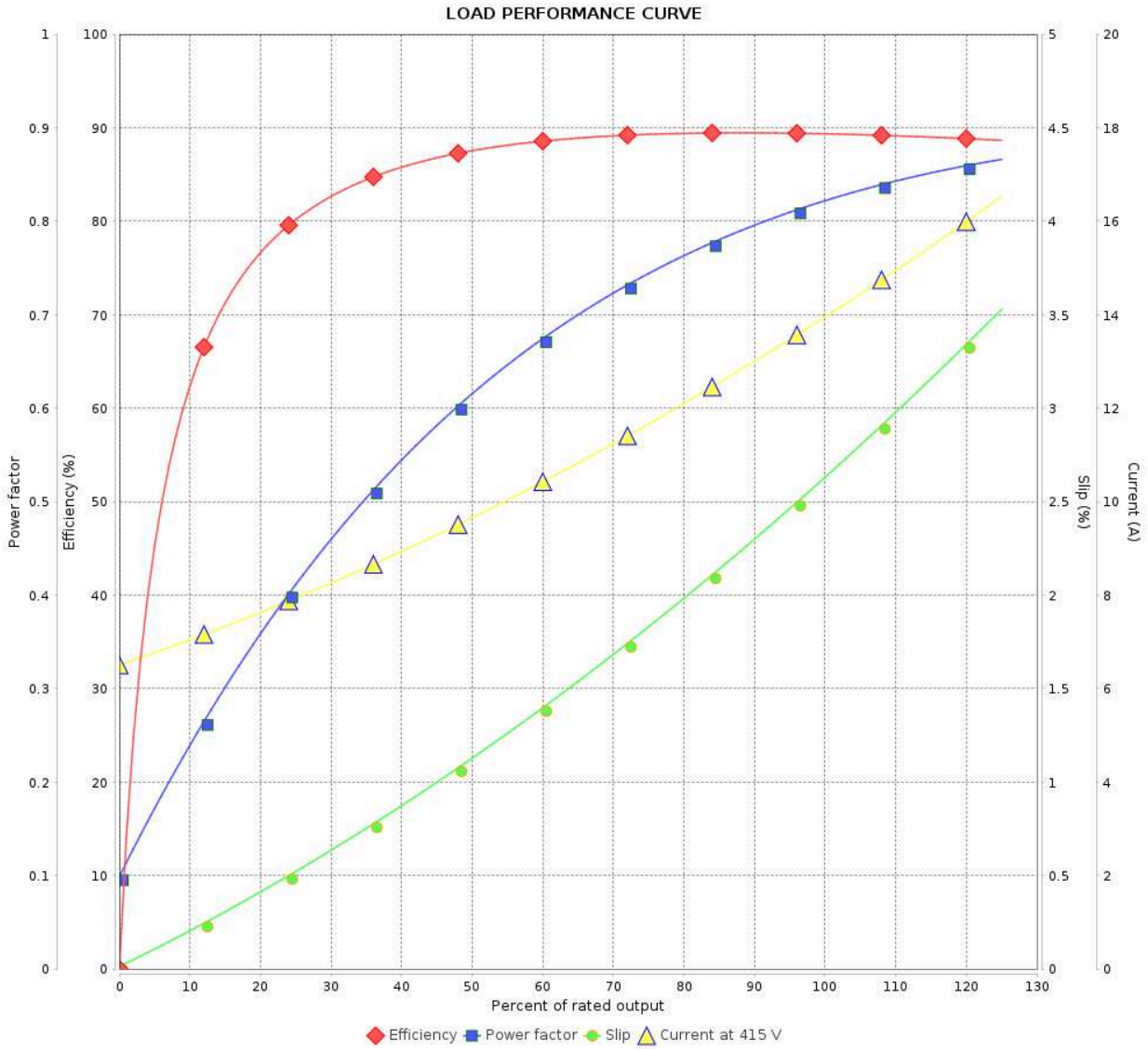
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Close Coupled Pump NEMA Premium Efficiency Three-Phase	Product code :	11168186

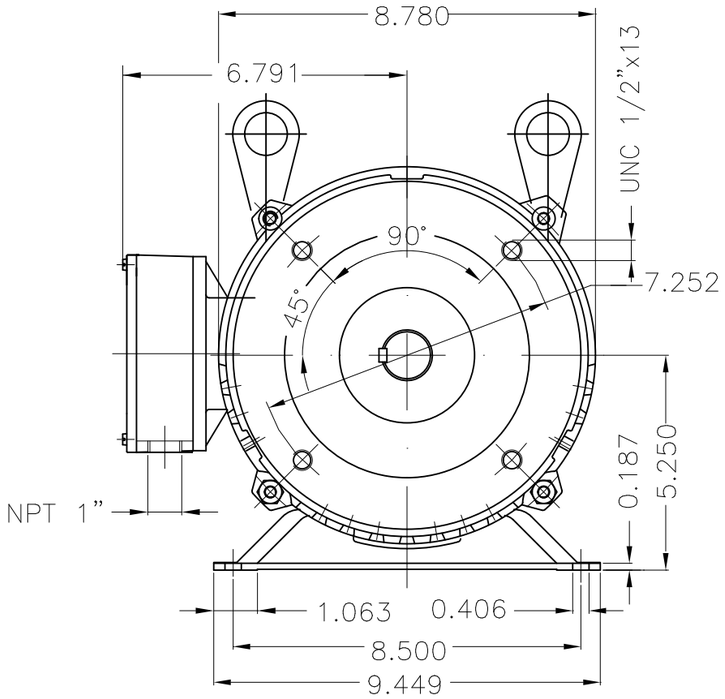


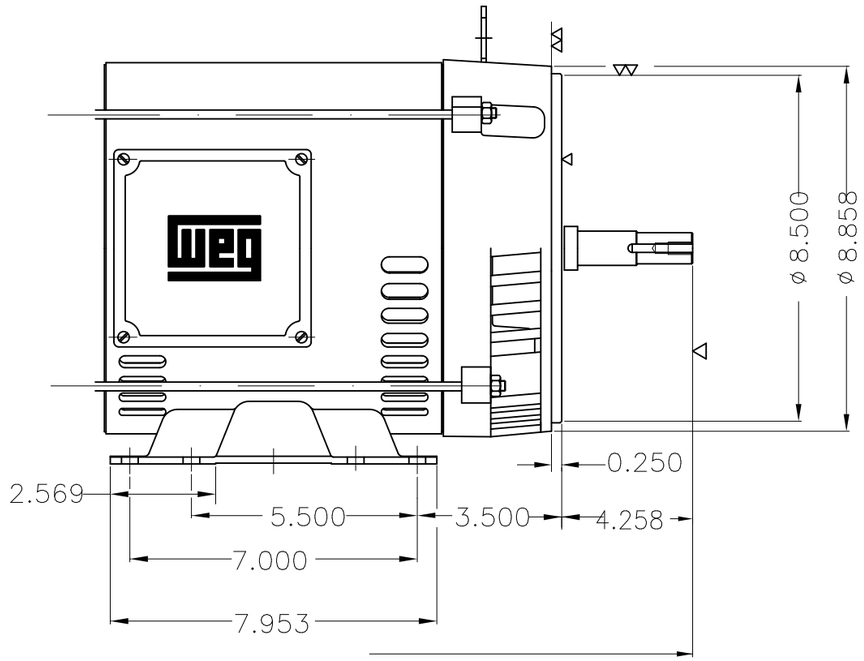
Performance	: 415 V 50 Hz 4P IE2		
Rated current	: 14.2 A	Moment of inertia (J)	: 0.0504 kgm²
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 4.97 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 105 K
Rated speed	: 1460 rpm	Design	: B

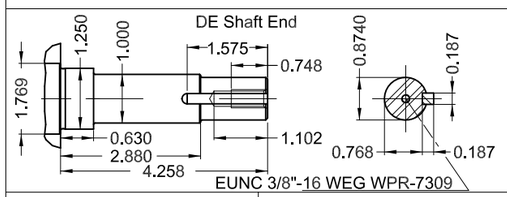
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Without switch off thermal protection
Color RAL 5009
Painting plan 207A
Mounting B34R(D)

10 HP 04 Poles 60 Hz — A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			HYBRISUSER				00

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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