DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase

Product code : 12082015

Frame	: 213/5JM	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	: 82.7 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0636 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]		25.3/12.7	11.5	11.4	11.3	15.2	14.4	14.1
L. R. Amperes [A]		162/81.1	86.2	91.5	96.1	90.9	93.6	98.8
LRC [A]		6.4x(Code H)	7.5x(Code J)	8.0x(Code K)	8.5x(Code L)	6.0x(Code G)	6.5x(Code H)	7.0x(Code H)
No load current [A]		11.3/5.65	5.60	6.00	6.35	5.60	6.00	6.35
Rated speed [RPM]		1765	1465	1470	1470	1450	1455	1460
Slip [%]		1.94	2.33	2.00	2.00	3.33	3.00	2.67
Rated torque [kgfm]		4.11	3.70	3.69	3.69	5.01	4.99	4.95
Locked rotor torque [%]		200	200	240	260	150	180	190
Breakdown torque [%]		295	300	340	360	220	250	270
Service factor		1.25	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		30s (cold) 17s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level²		58.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%							
	50%	91.0	90.0	89.2	88.7	90.3	90.3	90.3
	75%	91.7	90.0	89.9	89.8	90.2	90.2	90.2
	100%	91.7	89.8	90.1	90.3	88.5	89.5	90.2
Power Factor	25%							
	50%	0.65	0.61	0.57	0.53	0.72	0.68	0.64
	75%	0.76	0.74	0.70	0.67	0.81	0.79	0.76
	100%	0.81	0.81	0.77	0.75	0.85	0.84	0.82

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

Losses (%)	P1 (0,9;1,0)	8.8	11.0	10.7	10.4	12.6	11.4	10.6
	P2 (0,5;1,0)	7.3	9.2	8.9	8.7	10.5	9.5	8.8
	P3 (0,25;1,0)	7.0	8.8	8.5	8.3	10.1	9.1	8.4
	P4 (0,9;0,5)	4.6	5.8	5.6	5.5	6.6	6.0	5.6
	P5 (0,5;0,5)	3.2	4.0	3.9	3.8	4.6	4.1	3.8
	P6 (0,5;0,25)	2.3	2.8	2.7	2.7	3.2	2.9	2.7
	P7 (0,25;0,25)	1.6	2.0	1.9	1.9	2.2	2.0	1.9

		Drive end	Non drive end
Bearing type	:	6309 Z C3	6207 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	40000 h
Lubricant amount	:	13 g	0 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 207 kgf

Max. compression : 289 kgf

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Notes
USABLE @208V 27.4A SF 1.15 SFA 31.5A

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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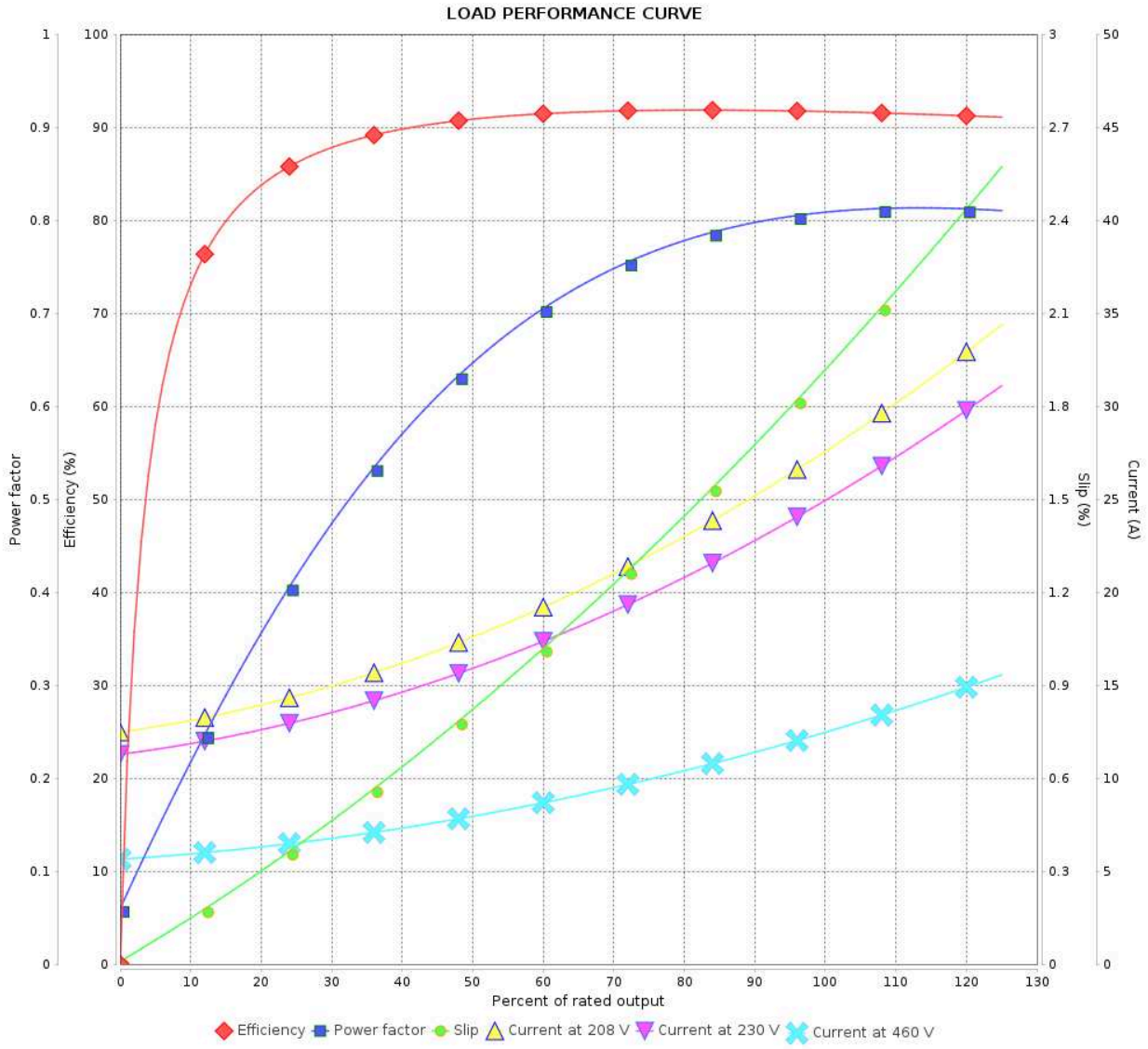
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	12082015



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 25.3/12.7 A	Moment of inertia (J)	: 0.0636 kgm²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 4.11 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 295 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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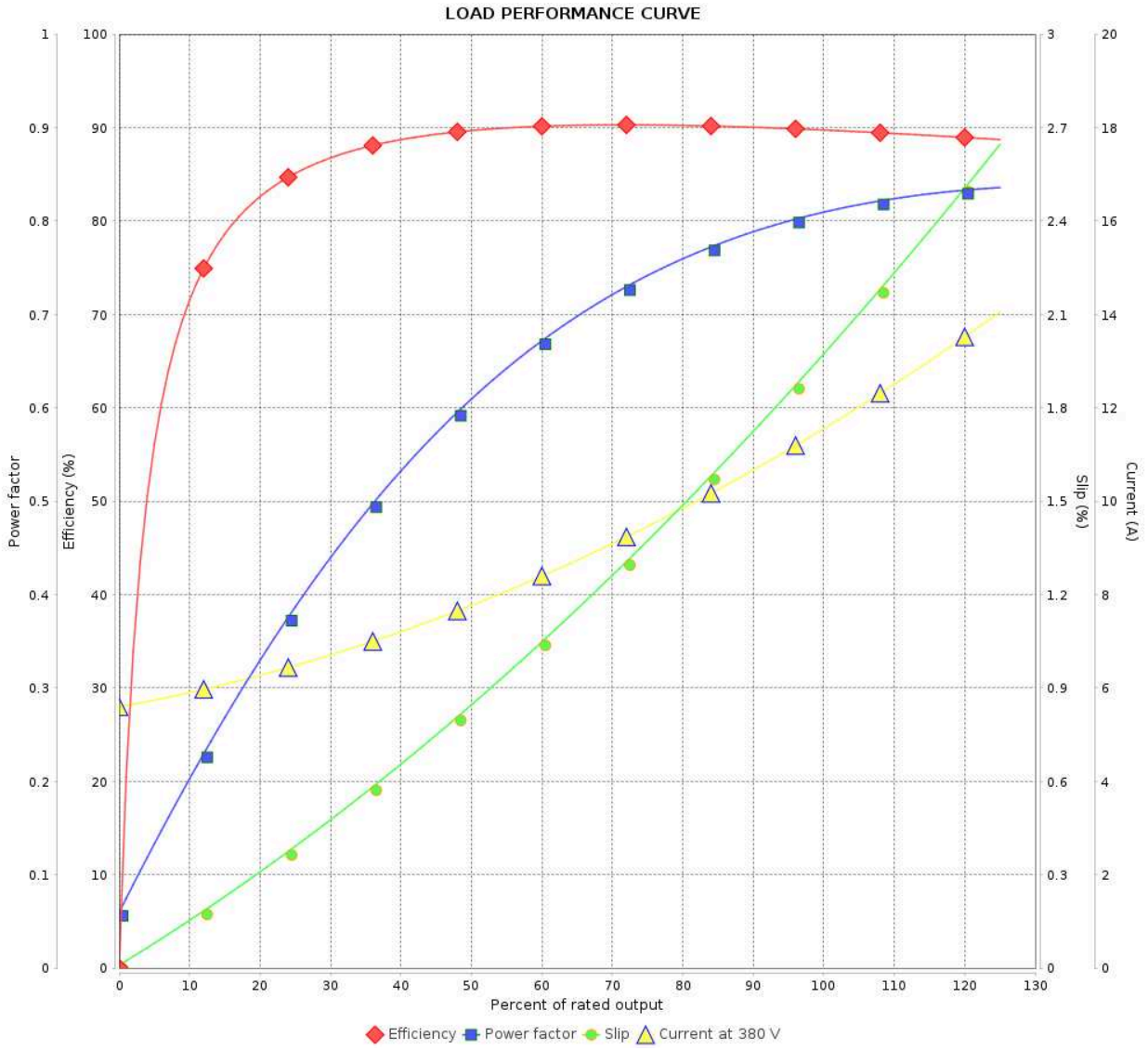
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	12082015



Performance	: 380 V 50 Hz 4P IE3		
Rated current	: 11.5 A	Moment of inertia (J)	: 0.0636 kgm²
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 3.70 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

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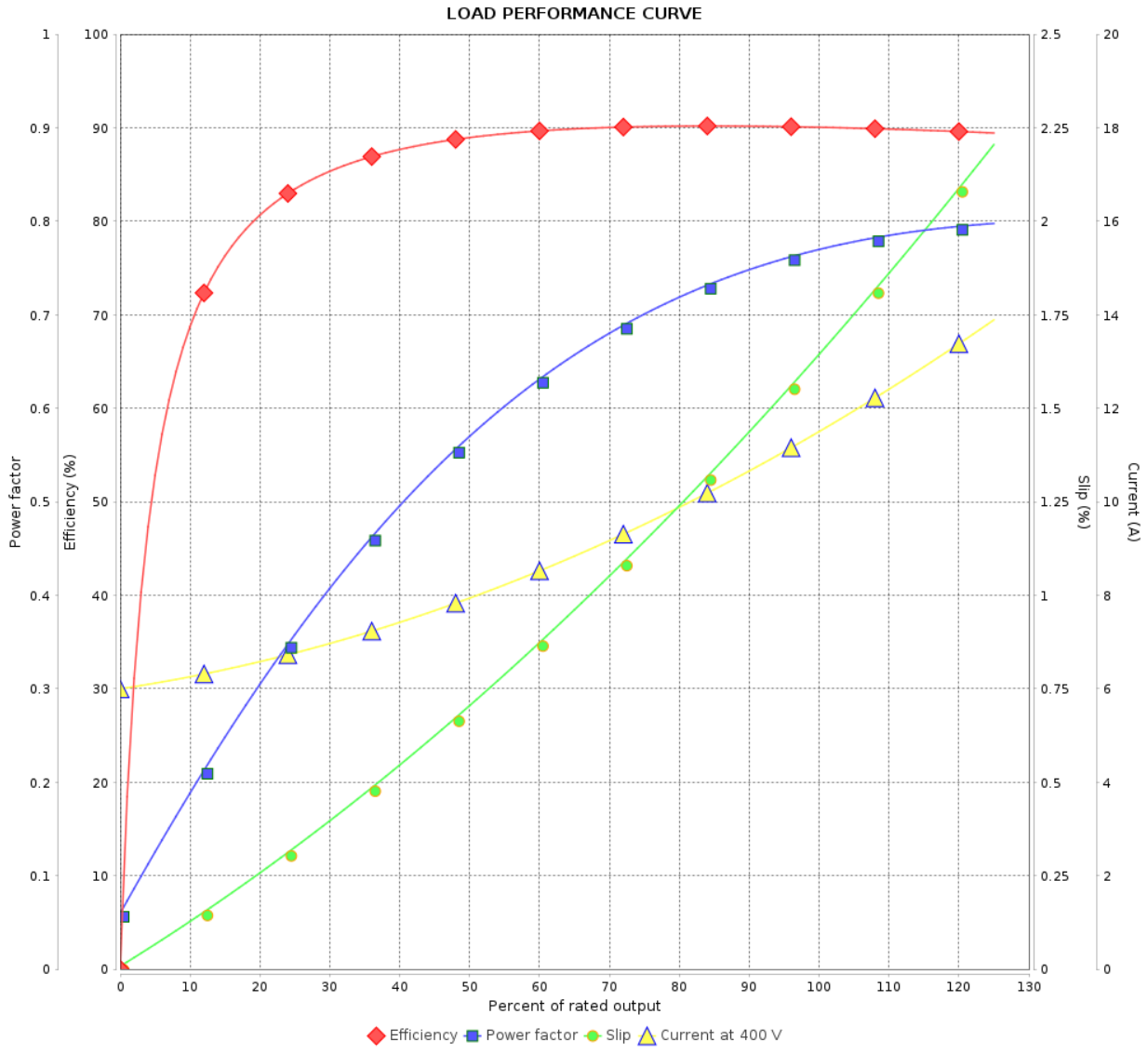
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	12082015



Performance	: 400 V 50 Hz 4P IE3		
Rated current	: 11.4 A	Moment of inertia (J)	: 0.0636 kgm²
LRC	: 8.0	Duty cycle	: Cont.(S1)
Rated torque	: 3.69 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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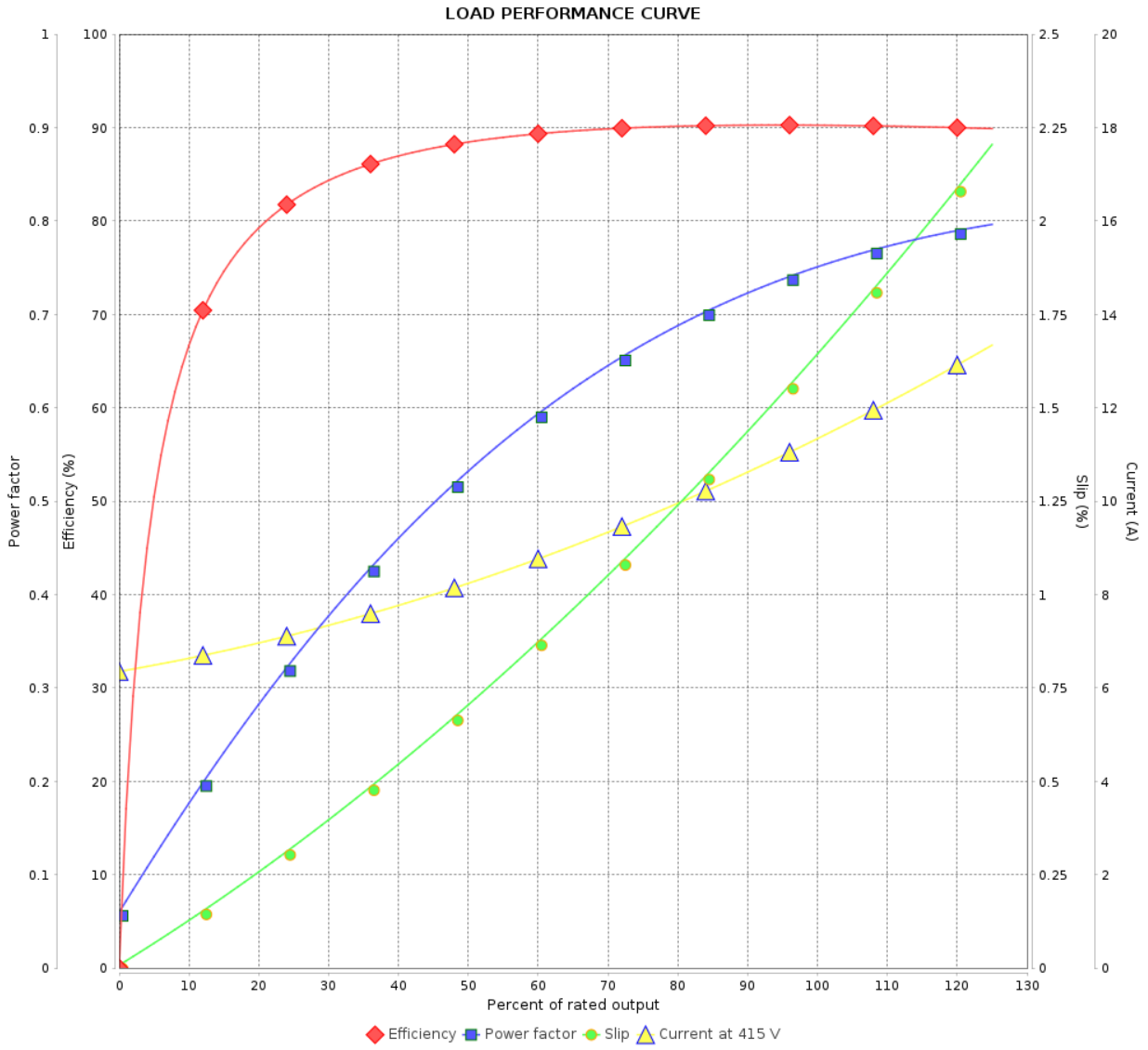
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	12082015



Performance	: 415 V 50 Hz 4P IE3

Rated current	: 11.3 A	Moment of inertia (J)	: 0.0636 kgm²
LRC	: 8.5	Duty cycle	: Cont.(S1)
Rated torque	: 3.69 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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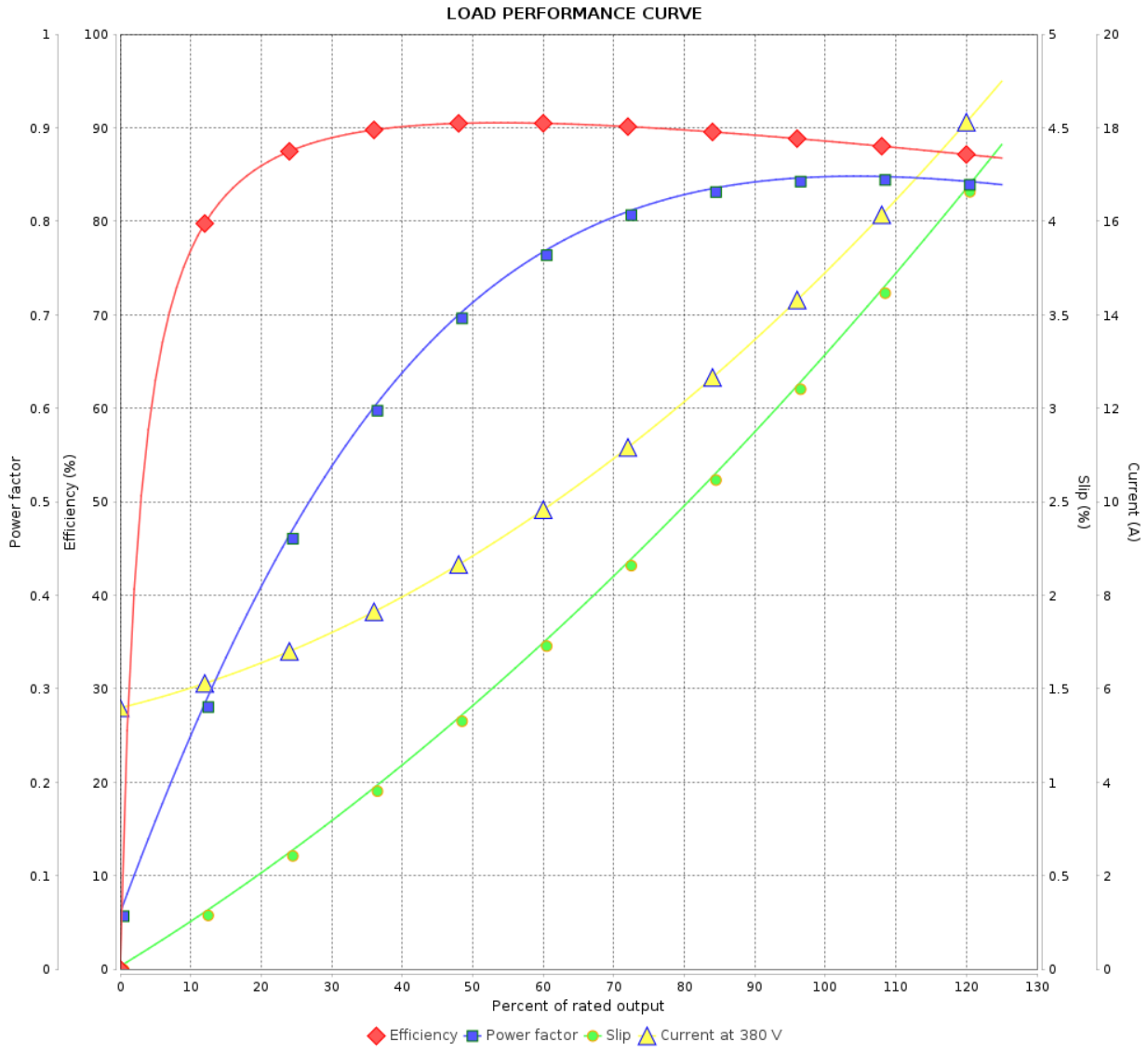
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	12082015



Performance	: 380 V 50 Hz 4P IE1		
Rated current	: 15.2 A	Moment of inertia (J)	: 0.0636 kgm²
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 5.01 kgfm	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

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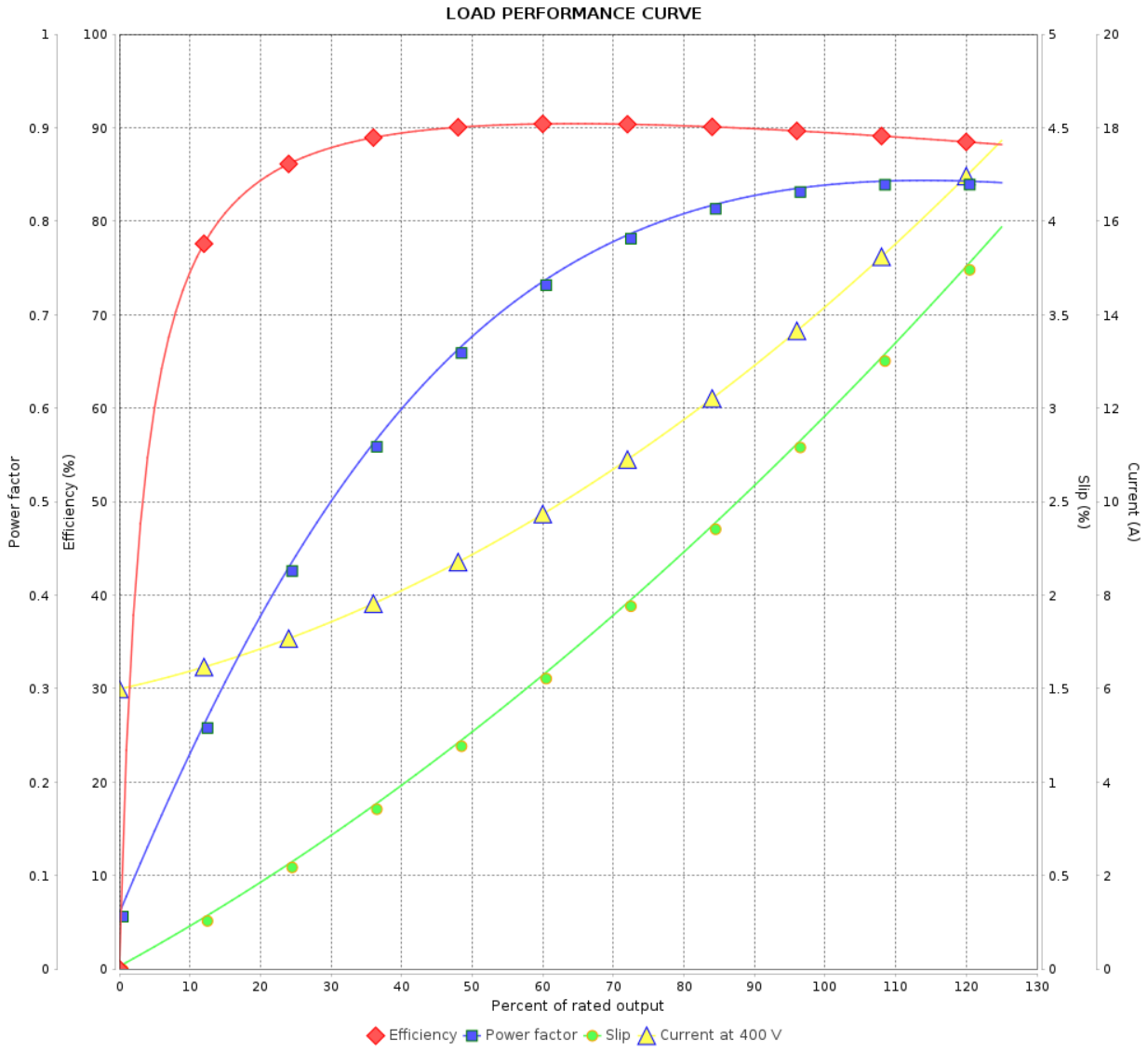
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase

Product code : 12082015



Performance	: 400 V 50 Hz 4P IE2		
Rated current	: 14.4 A	Moment of inertia (J)	: 0.0636 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 4.99 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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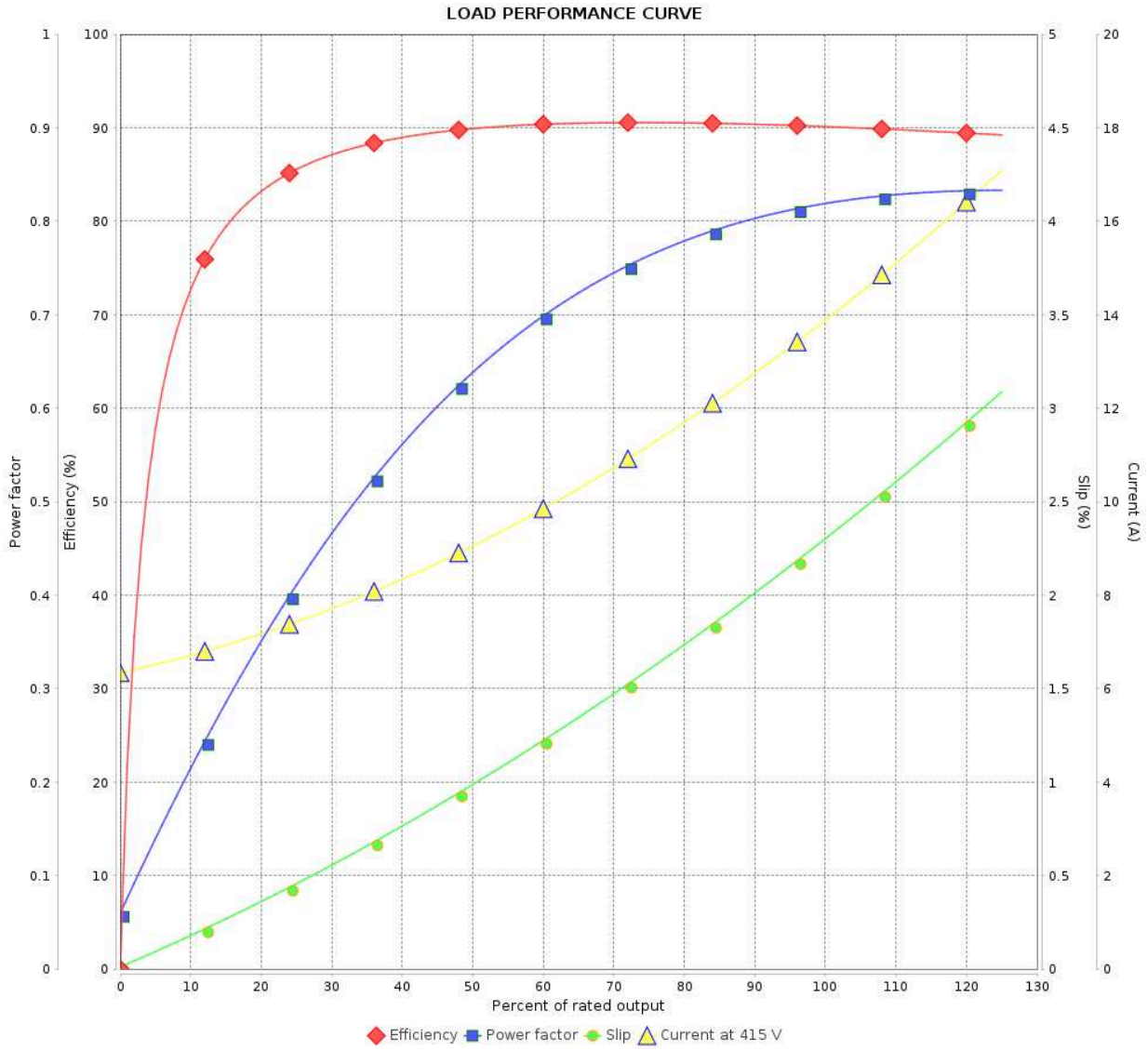
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Three Phase Induction Motor - Squirrel Cage

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Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	12082015

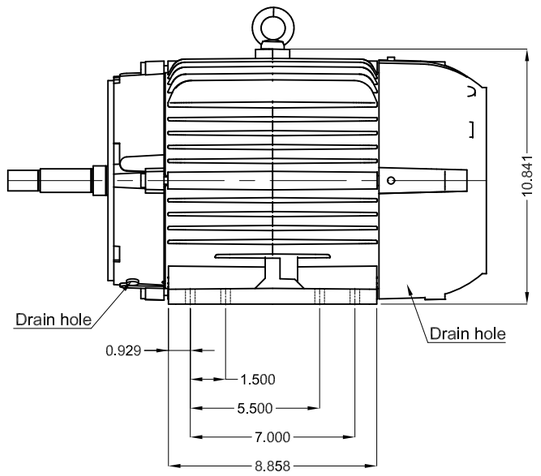


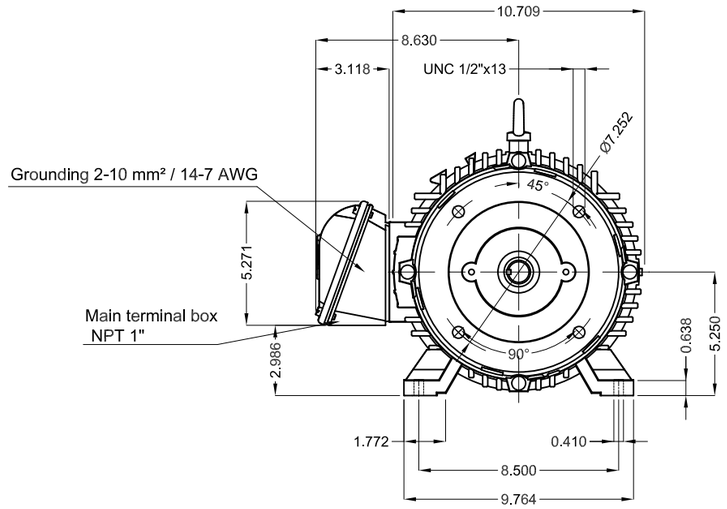
Performance	: 415 V 50 Hz 4P IE2		
Rated current	: 14.1 A	Moment of inertia (J)	: 0.0636 kgm²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 4.95 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

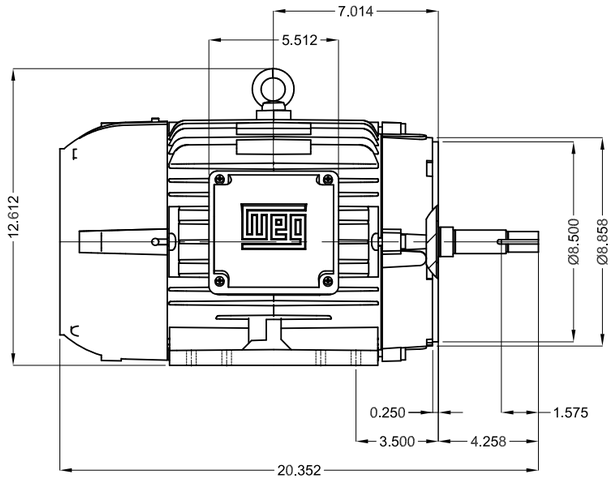
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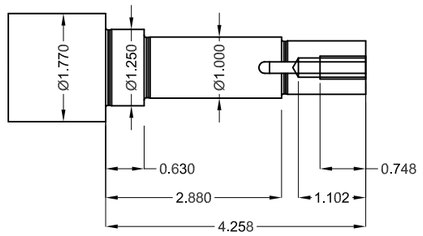
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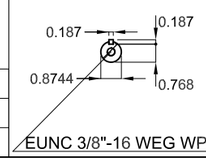








DE Shaft End



EUNC 3/8"-16 WEG WPR-7309

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 W22 NEMA PREM. EFF.	PREVIEW
CHECKED		FRAME 213/5JM IP55 TEFC	WDD 00
RELEASED			
REL. DATE			SHEET /

Dimensions in inches

A3

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