DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 14495396

Frame	: 213JM	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-3
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]	: 70.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0566 kgm²
Design	: B		

Output [HP]		7.5	7.5	7.5	7.5
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		18.4/9.18	11.0	10.6	10.4
L. R. Amperes [A]		130/65.2	61.4	65.7	69.3
LRC [A]		7.1x(Code H)	5.6x(Code F)	6.2x(Code G)	6.7x(Code H)
No load current [A]		7.80/3.90	3.90	4.10	4.40
Rated speed [RPM]		1765	1455	1460	1465
Slip [%]		1.94	3.00	2.67	2.33
Rated torque [kgfm]		3.08	3.74	3.73	3.72
Locked rotor torque [%]		220	180	190	210
Breakdown torque [%]		280	220	240	260
Service factor		1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		36s (cold) 20s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level[2]		58.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%				
	50%	89.5	89.5	89.5	89.5
	75%	91.0	89.5	90.2	90.2
	100%	91.7	89.6	90.2	90.2
Power Factor	25%				
	50%	0.66	0.72	0.69	0.66
	75%	0.76	0.81	0.78	0.76
	100%	0.82	0.85	0.83	0.82

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

Losses (%)	P1 (0,9;1,0)	10.2	10.3	10.2	10.7
	P2 (0,5;1,0)	9.0	9.1	9.0	9.5
	P3 (0,25;1,0)	8.4	8.5	8.5	8.9
	P4 (0,9;0,5)	4.8	4.9	4.8	5.1
	P5 (0,5;0,5)	3.6	3.6	3.6	3.7
	P6 (0,5;0,25)	2.4	2.4	2.4	2.5
	P7 (0,25;0,25)	1.7	1.8	1.7	1.8

		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 : 141 kgf

Max. compression : 216 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.

Rev.	Changes Summary	Performed	Checked	Date

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Notes
USABLE @208V 19.9A SF 1.15 SFA 22.9A

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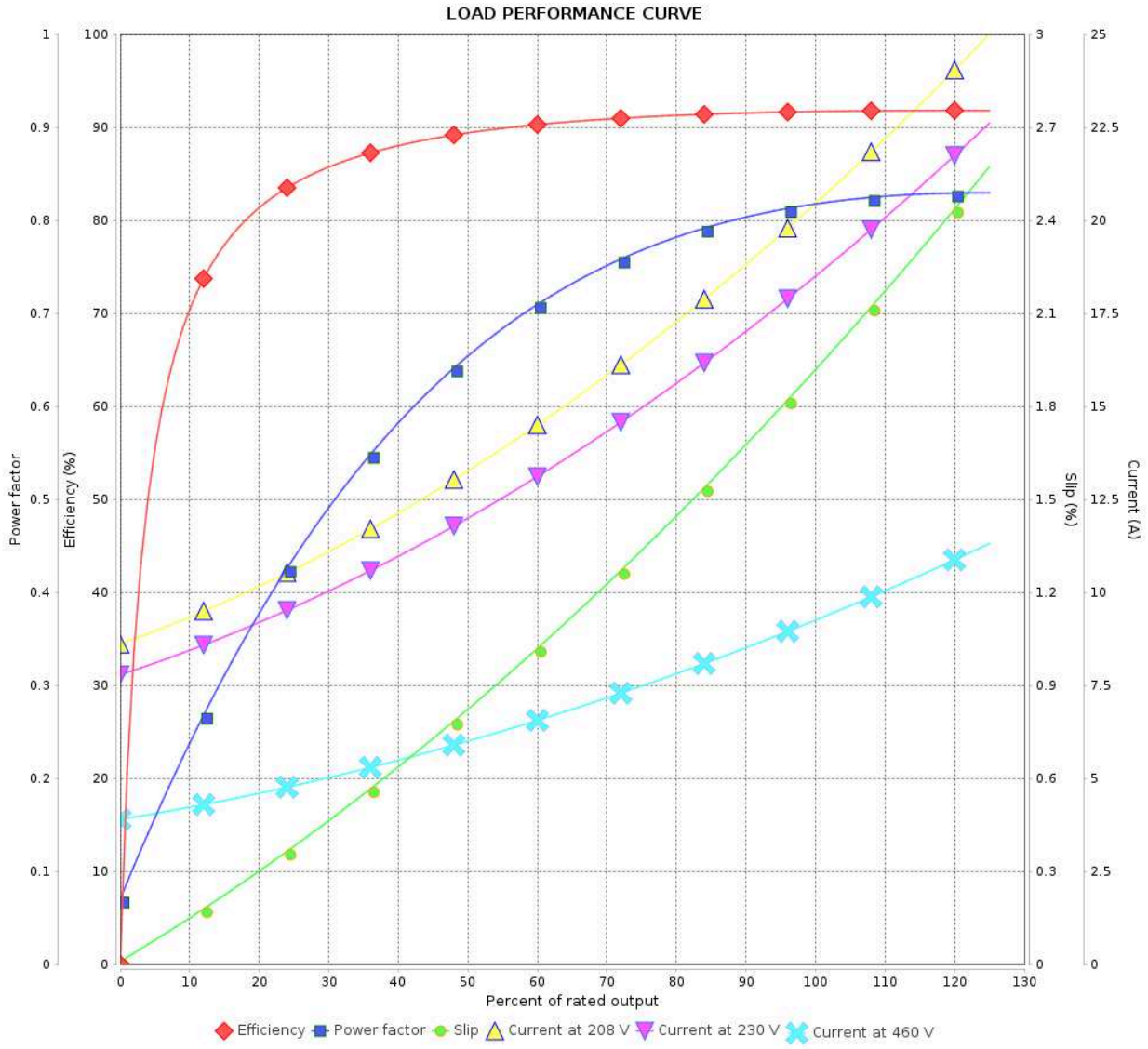
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	14495396



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 18.4/9.18 A	Moment of inertia (J)	: 0.0566 kgm²
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 3.08 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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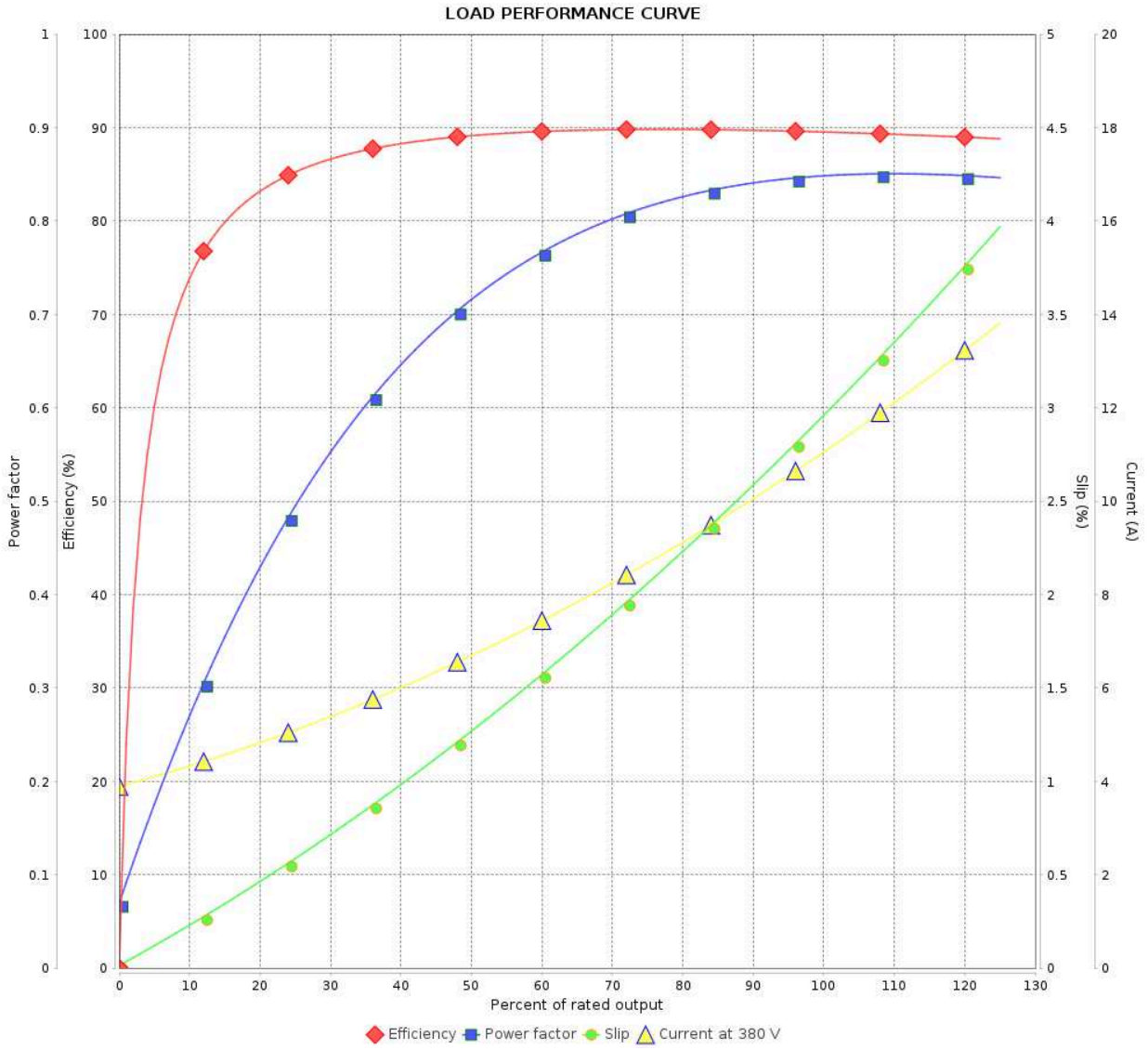
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	14495396



Performance	: 380 V 50 Hz 4P IE3		
Rated current	: 11.0 A	Moment of inertia (J)	: 0.0566 kgm²
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 3.74 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.25
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1455 rpm	Design	: B

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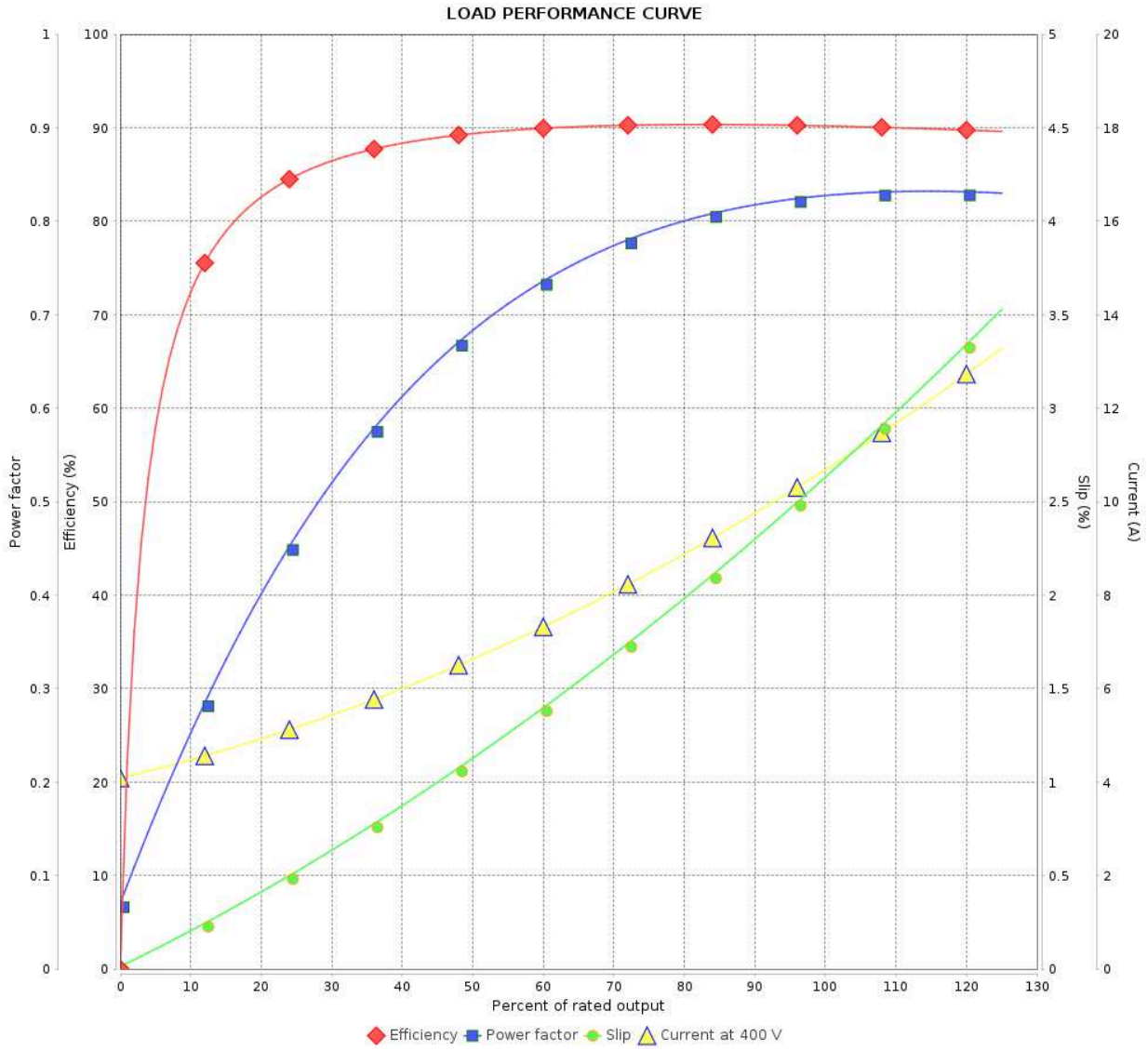
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	14495396



Performance	: 400 V 50 Hz 4P IE3		
Rated current	: 10.6 A	Moment of inertia (J)	: 0.0566 kgm²
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 3.73 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

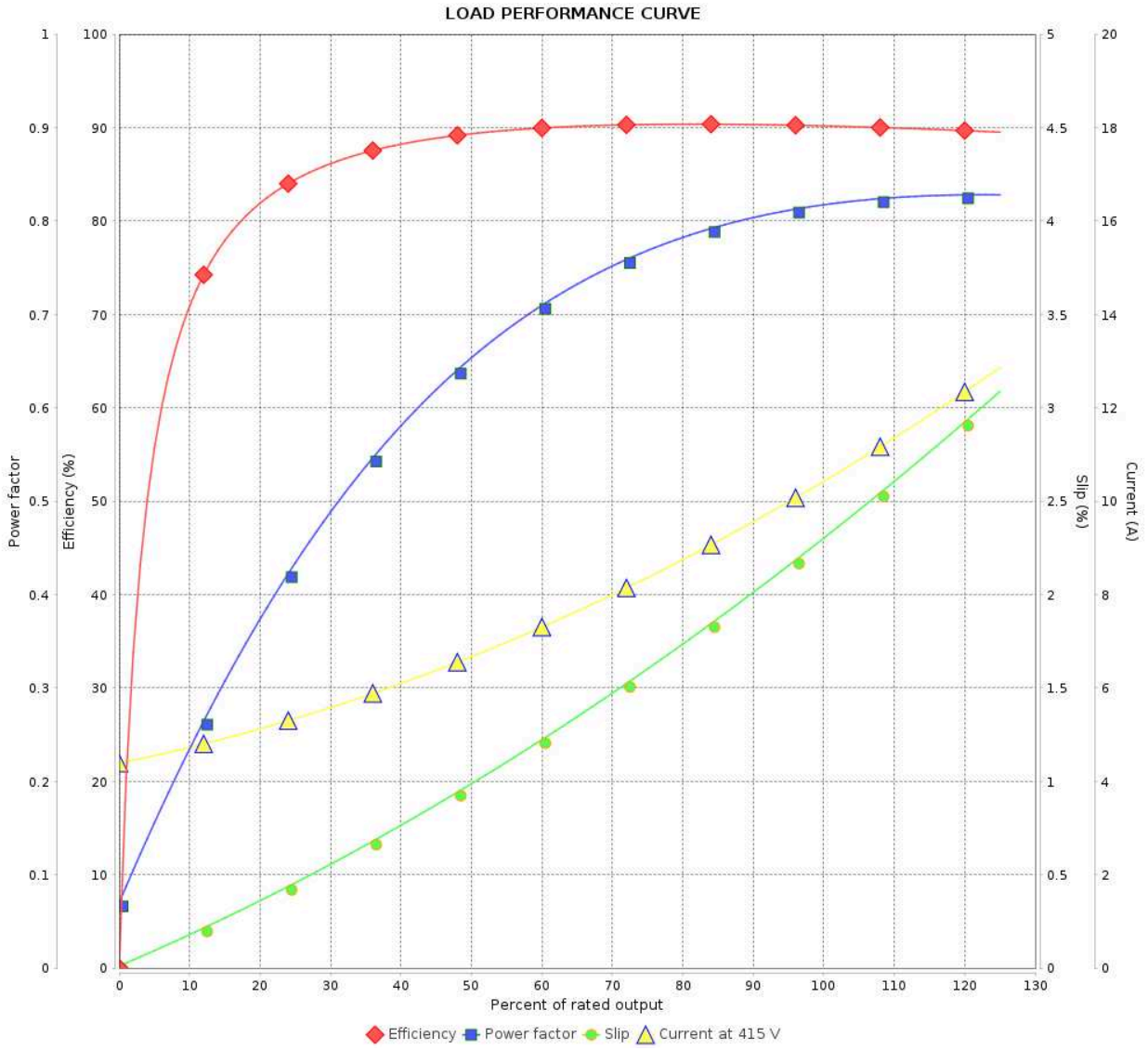
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Three Phase Induction Motor - Squirrel Cage

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Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	14495396

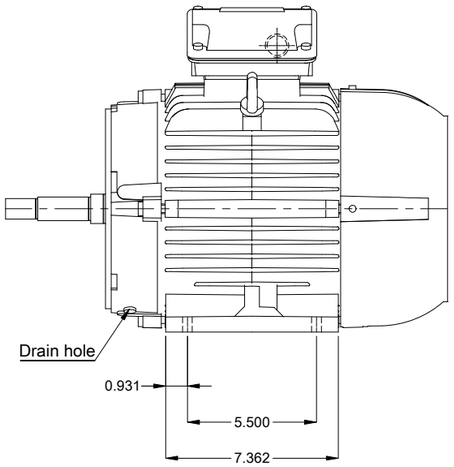


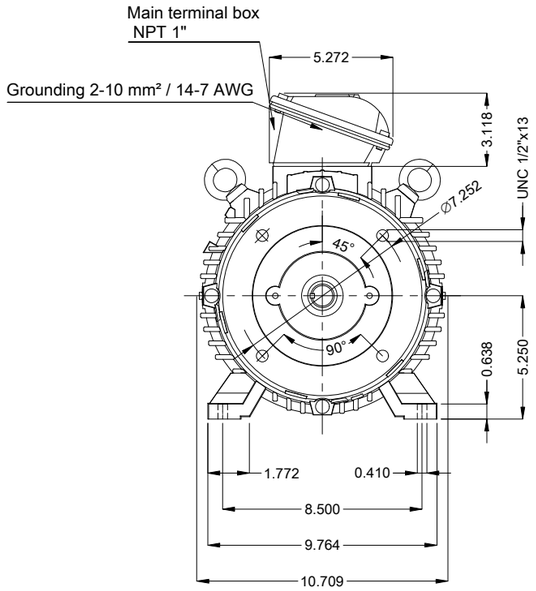
Performance	: 415 V 50 Hz 4P IE3		
Rated current	: 10.4 A	Moment of inertia (J)	: 0.0566 kgm²
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 3.72 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

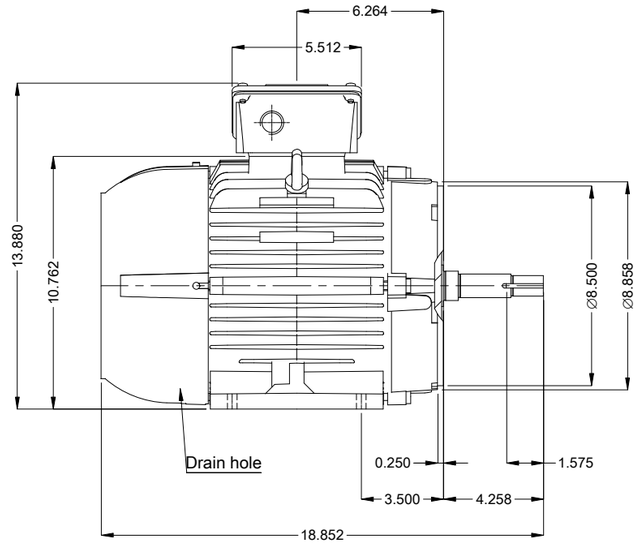
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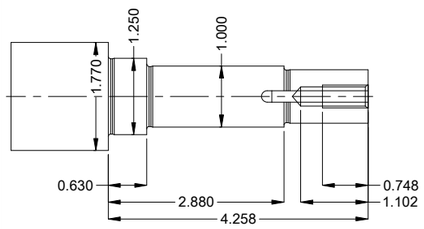
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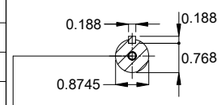








DE Shaft End



EUNC 3/8"-16 WEG WPR-7309

Grease - Mobil Polyrex EM
Color RAL 5009
Painting plan 207A
Mounting NEMA F-3
Mounting B34T

7.5 HP 04 Poles 60 Hz | A

V.J. PAMENSKY CANADA INC.

Scale 2 : 13

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

EXECUTED	PIRWBUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR JM/JP/JET PUMP W22 NEMA PREM. EFF.
FRAME 213JM IP55 TEFC

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in inches

A3

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