DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 12775267

Frame	: 182/4JM	Cooling method	: IC411 - TEFC
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]	: 42.5 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0206 kgm²
Design	: B		

Output [HP]		1.5	1.5	1.5	1.5
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		5.08/2.54	2.68	2.62	2.64
L. R. Amperes [A]		39.6/19.8	16.9	18.1	19.5
LRC [A]		7.8x(Code M)	6.3x(Code J)	6.9x(Code K)	7.4x(Code L)
No load current [A]		3.25/1.63	1.60	1.71	1.80
Rated speed [RPM]		1170	955	960	965
Slip [%]		2.50	4.50	4.00	3.50
Rated torque [kgfm]		0.930	1.14	1.13	1.13
Locked rotor torque [%]		320	250	300	330
Breakdown torque [%]		400	290	330	370
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		28s (cold) 16s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level[2]		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%				
	50%	84.0	85.5	84.5	84.0
	75%	86.5	86.5	86.5	85.5
	100%	87.5	85.5	86.5	86.5
Power Factor	25%				
	50%	0.45	0.52	0.48	0.45
	75%	0.54	0.63	0.60	0.57
	100%	0.62	0.73	0.70	0.67

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

Losses (%)	P1 (0,9;1,0)	13.4	13.4	13.4	13.4
	P2 (0,5;1,0)	10.3	10.3	10.3	10.3
	P3 (0,25;1,0)	9.3	9.3	9.3	9.3
	P4 (0,9;0,5)	8.8	8.8	8.8	8.8
	P5 (0,5;0,5)	5.8	5.8	5.8	5.8
	P6 (0,5;0,25)	4.8	4.8	4.8	4.8
	P7 (0,25;0,25)	3.5	3.5	3.5	3.5

		Drive end	Non drive end
Bearing type	:	6307 ZZ	6206 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 66 kgf

Max. compression : 108 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 5.62A SF 1.15 SFA 6.46A

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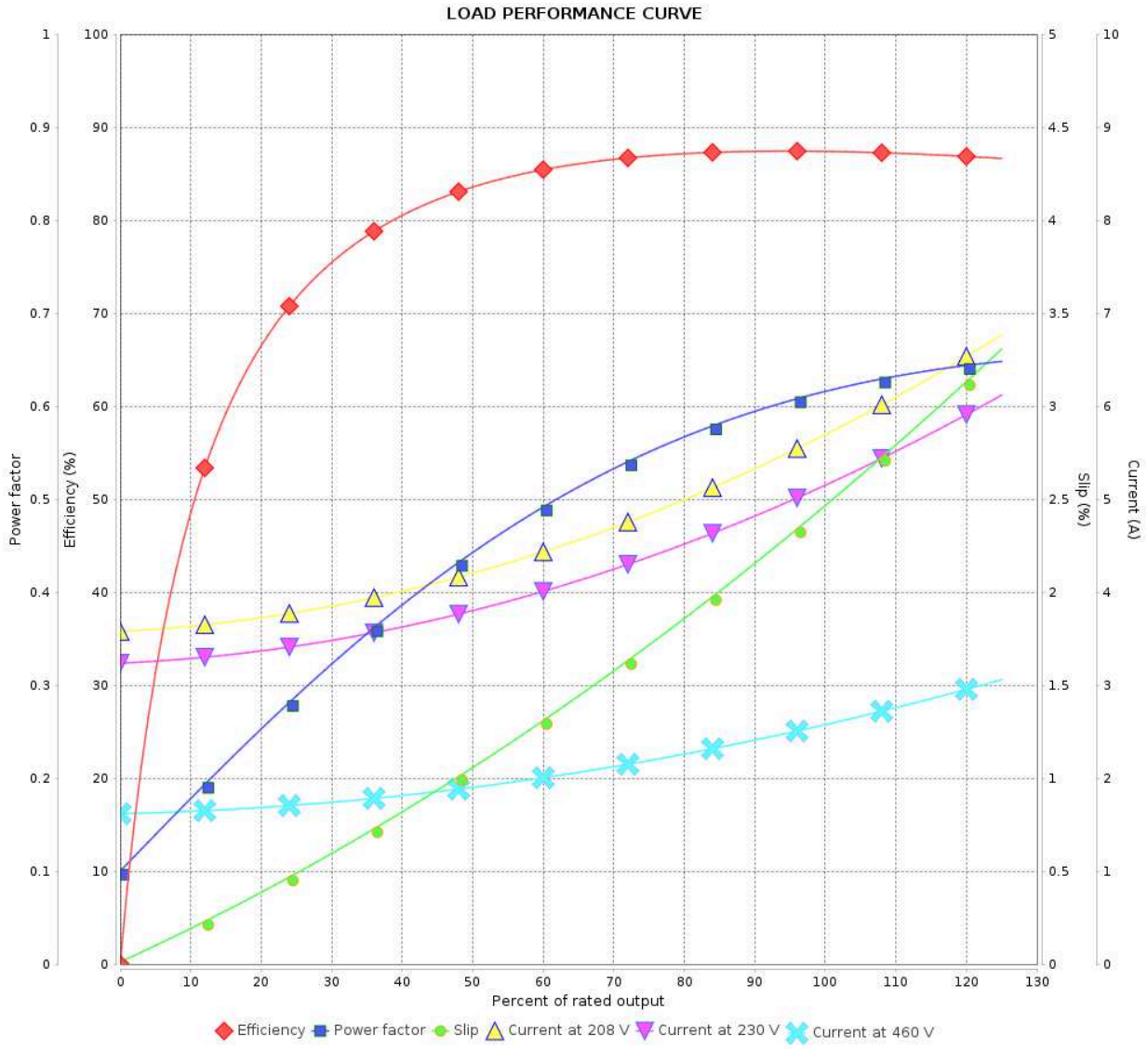
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	12775267



Performance	: 230/460 V 60 Hz 6P

Rated current	: 5.08/2.54 A	Moment of inertia (J)	: 0.0206 kgm²
LRC	: 7.8	Duty cycle	: Cont.(S1)
Rated torque	: 0.930 kgfm	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.25
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 1170 rpm	Design	: B

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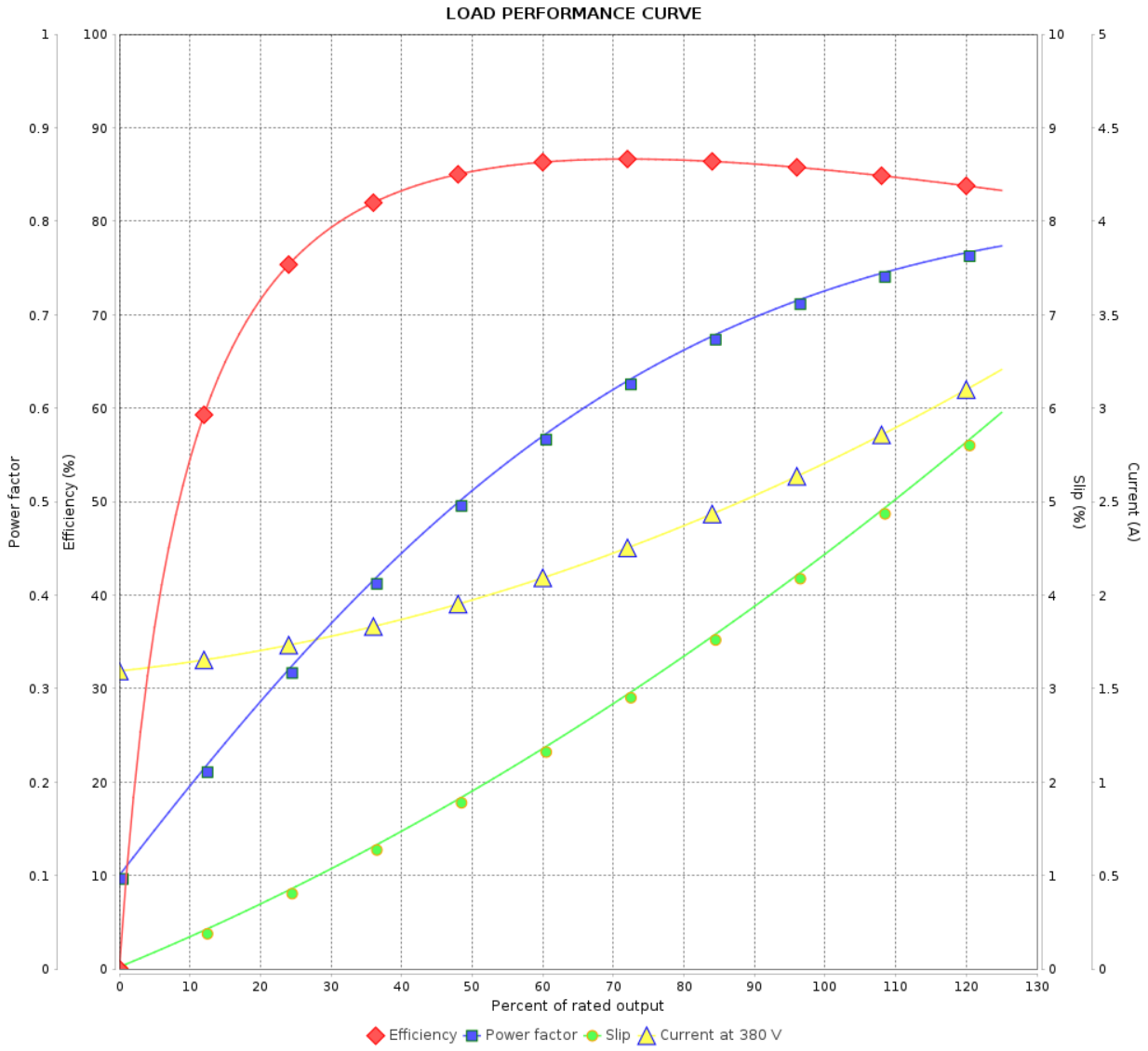
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	12775267



Performance	: 380 V 50 Hz 6P IE4

Rated current	: 2.68 A	Moment of inertia (J)	: 0.0206 kgm²
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 1.14 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 955 rpm	Design	: B

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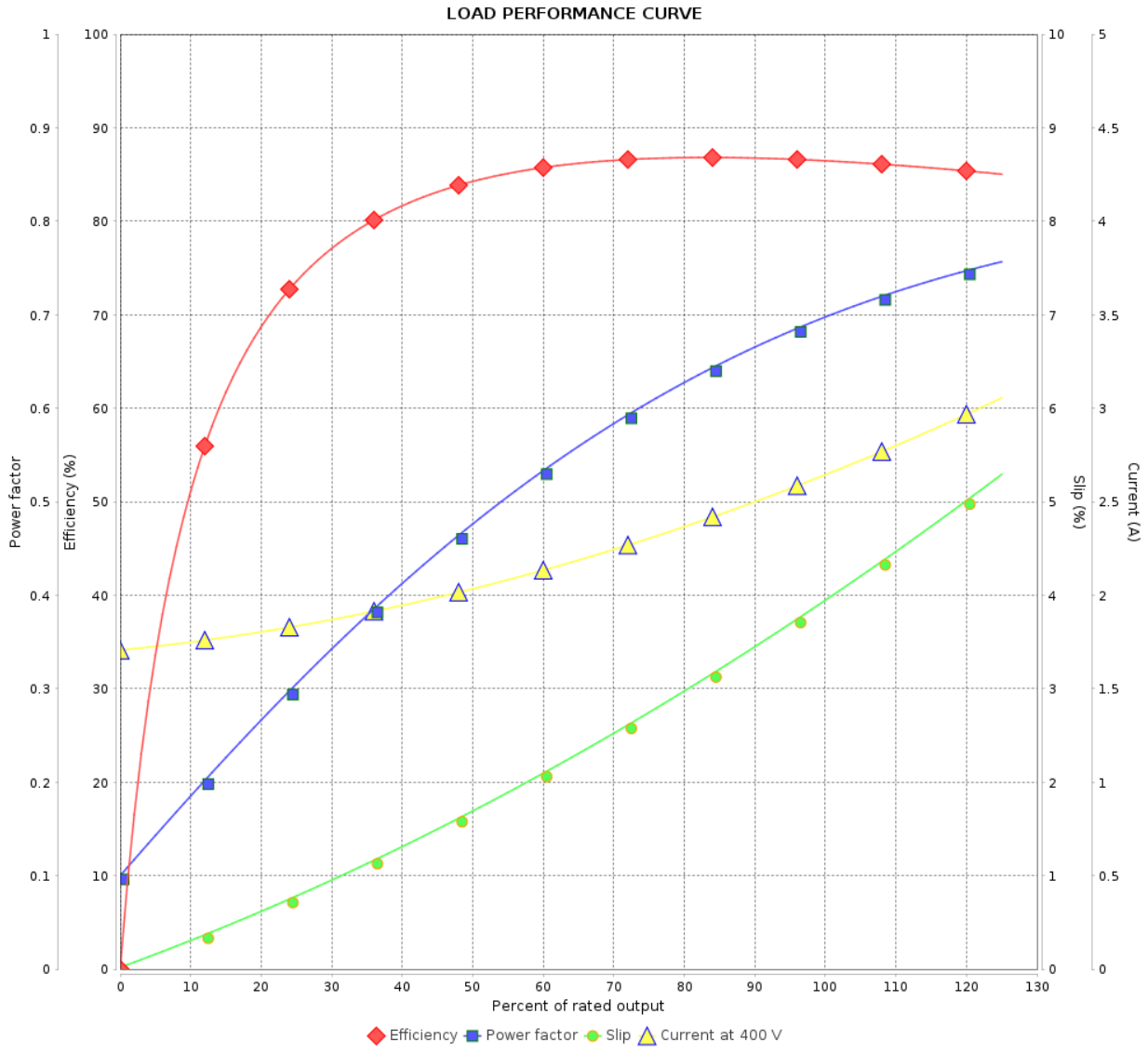
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	12775267



Performance	: 400 V 50 Hz 6P IE4		
Rated current	: 2.62 A	Moment of inertia (J)	: 0.0206 kgm²
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 1.13 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 960 rpm	Design	: B

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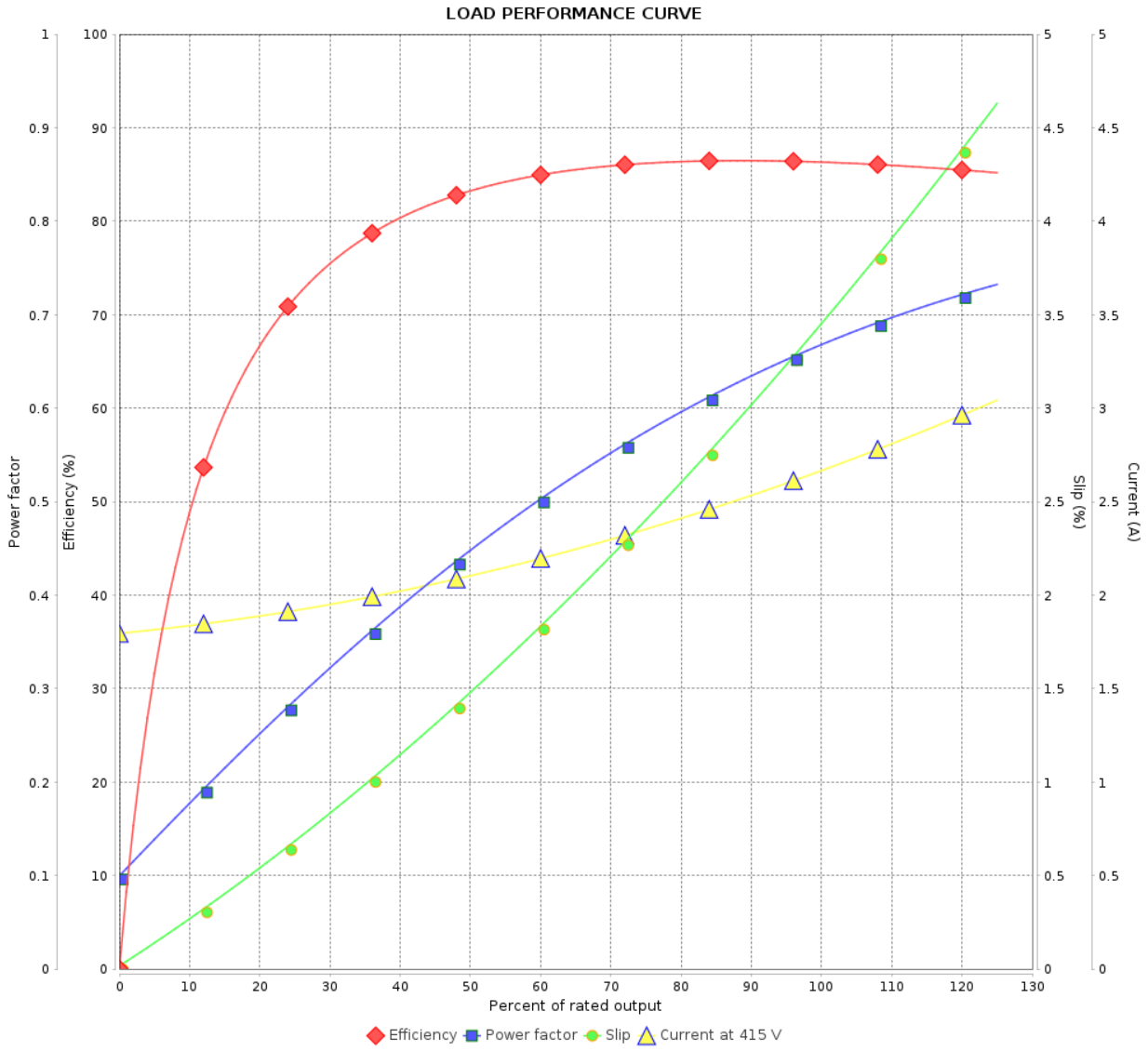
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	12775267



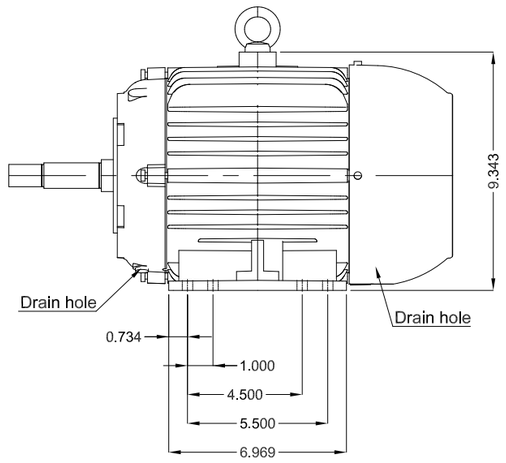
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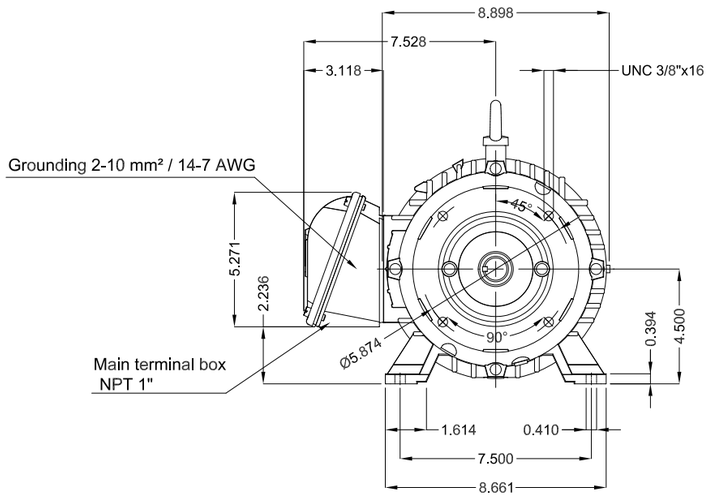
Rated current	: 2.64 A	Moment of inertia (J)	: 0.0206 kgm²
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 1.13 kgfm	Insulation class	: F
Locked rotor torque	: 330 %	Service factor	: 1.00
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 965 rpm	Design	: B

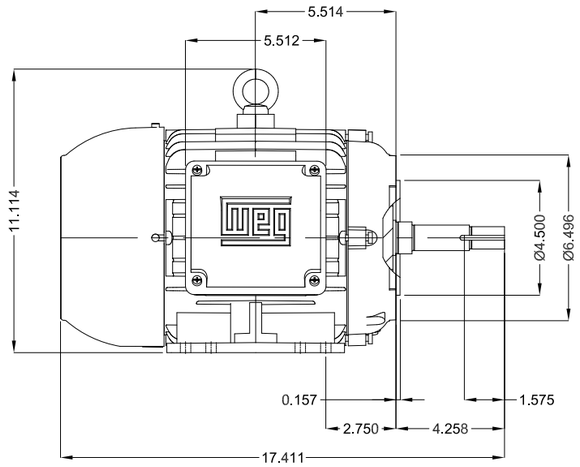
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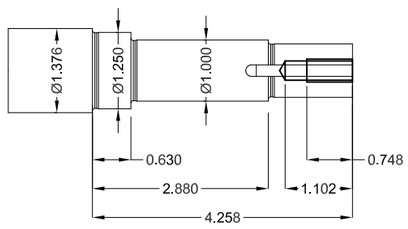
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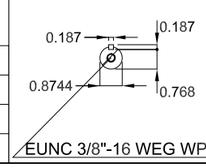








DE Shaft End



EUNC 3/8"-16 WEG WPR-7309

Color RAL 5009
Painting plan 207A
Mounting NEMA F-1
Mounting B34R(D)

1.5 HP 06 Poles 60 Hz | A

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

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR JM/JP/JET PUMP W22 NEMA PREM. EFF.
FRAME 182/4JM IP55 TEFC

PREVIEW
WDD 00
SHEET /

Dimensions in inches

A3

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