DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 11523675

Frame	: 143/5JM	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]	: 25.3 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0060 kgm²
Design	: B		

Output [HP]		1.5	1.5	1.5	1.5
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		4.04/2.02	2.42	2.33	2.30
L. R. Amperes [A]		33.9/17.0	15.5	16.3	17.0
LRC [A]		8.4x(Code L)	6.4x(Code J)	7.0x(Code K)	7.4x(Code K)
No load current [A]		2.20/1.10	1.10	1.20	1.30
Rated speed [RPM]		1755	1440	1445	1450
Slip [%]		2.50	4.00	3.67	3.33
Rated torque [kgfm]		0.620	0.756	0.751	0.751
Locked rotor torque [%]		290	220	250	280
Breakdown torque [%]		350	250	290	320
Service factor		1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level[2]		51.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%				
	50%	82.5	82.5	82.5	81.0
	75%	85.5	84.0	84.0	84.0
	100%	86.5	84.1	84.1	84.1
Power Factor	25%				
	50%	0.60	0.67	0.63	0.60
	75%	0.70	0.76	0.74	0.70
	100%	0.79	0.82	0.81	0.79

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

Losses (%)	P1 (0,9;1,0)	14.6	14.6	14.6	14.6
	P2 (0,5;1,0)	12.1	12.1	12.1	12.1
	P3 (0,25;1,0)	12.2	12.2	12.2	12.2
	P4 (0,9;0,5)	8.2	8.2	8.2	8.2
	P5 (0,5;0,5)	5.7	5.7	5.7	5.7
	P6 (0,5;0,25)	4.3	4.3	4.3	4.3
	P7 (0,25;0,25)	3.2	3.2	3.2	3.2

		Drive end	Non drive end
Bearing type	:	6206 ZZ	6204 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 56 kgf

Max. compression : 81 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 4.36A SF 1.15 SFA 5.01A

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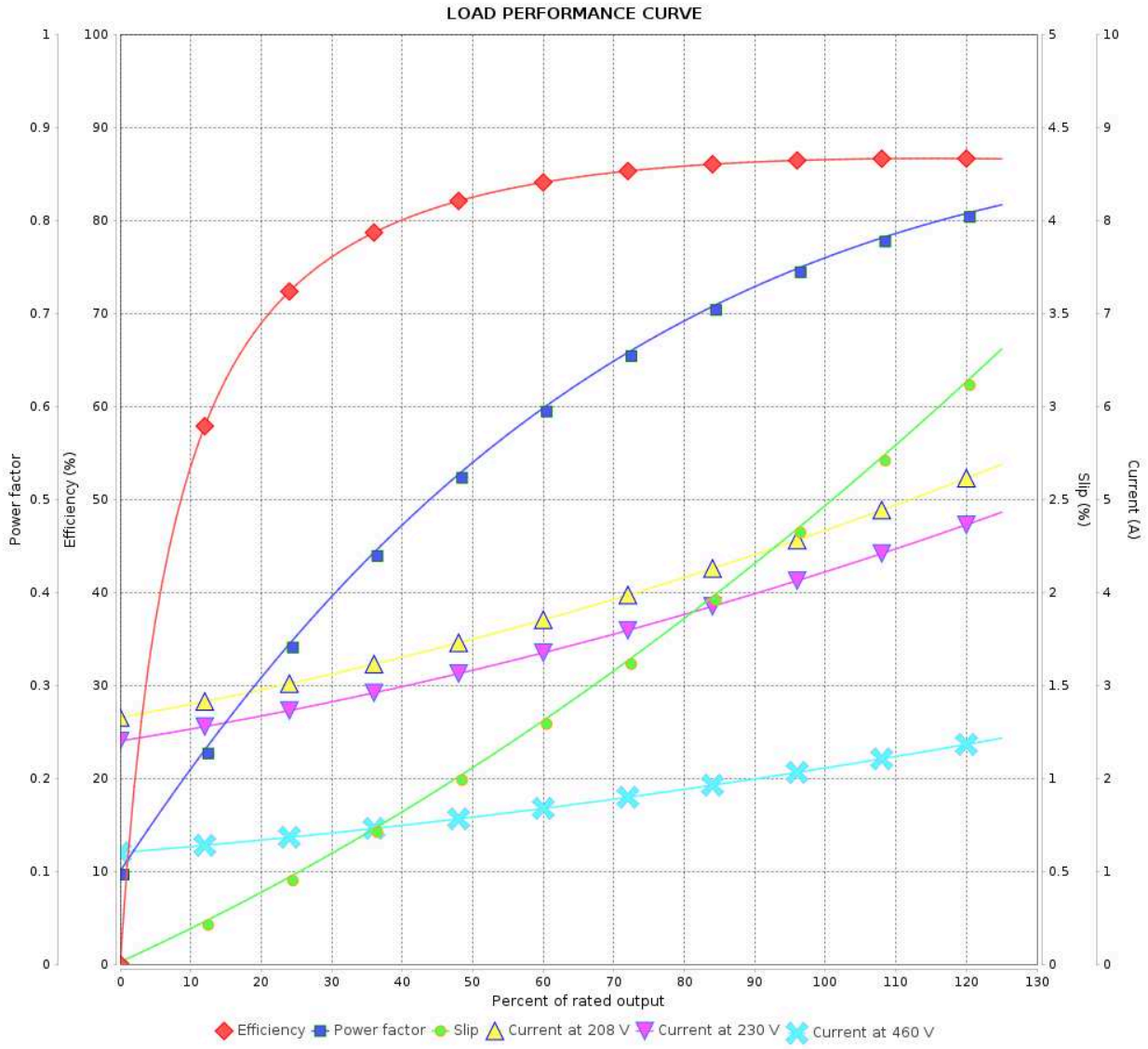
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	11523675



Performance	: 230/460 V 60 Hz 4P

Rated current	: 4.04/2.02 A	Moment of inertia (J)	: 0.0060 kgm²
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.620 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1755 rpm	Design	: B

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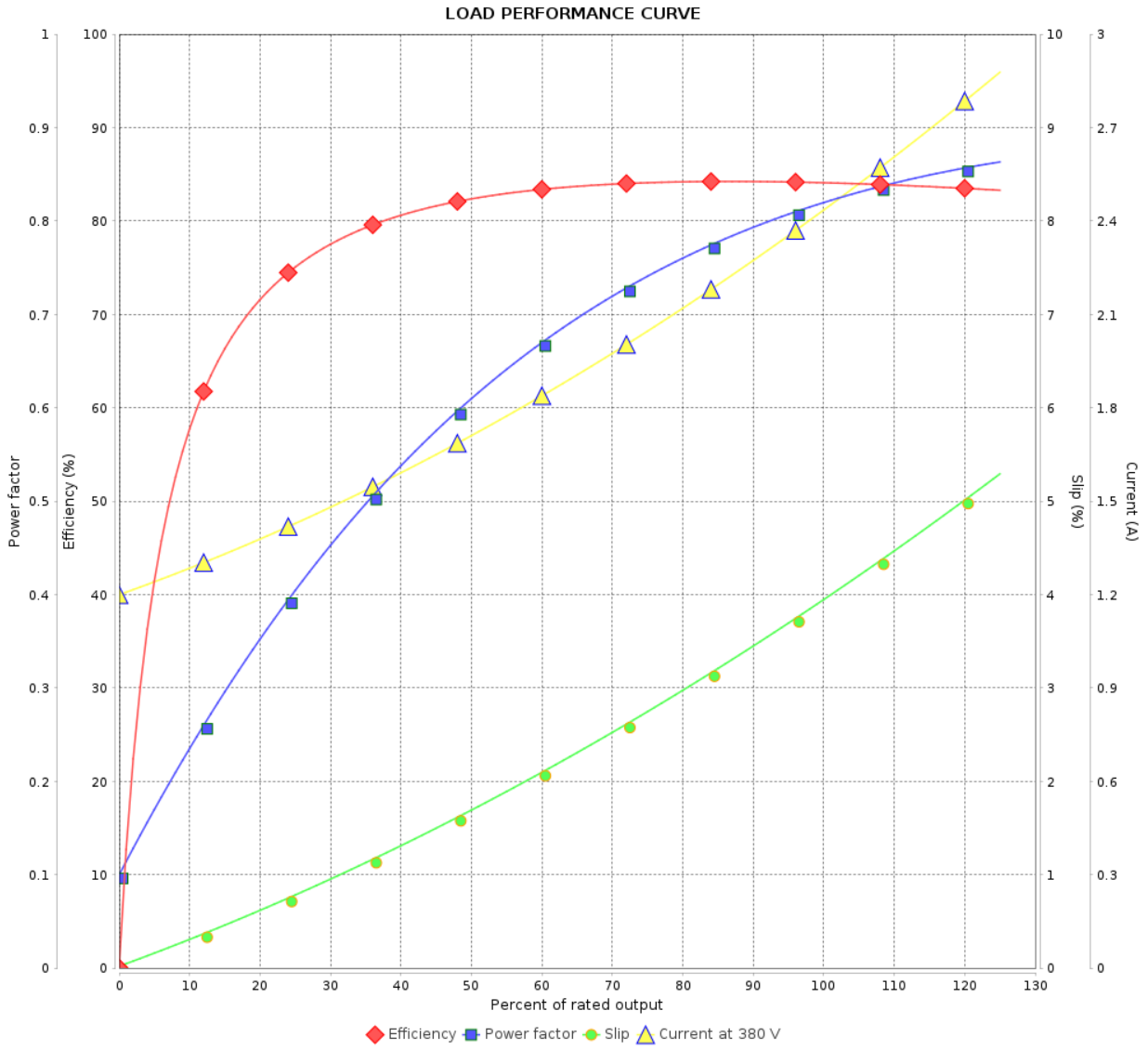
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	11523675



Performance	: 380 V 50 Hz 4P IE3

Rated current	: 2.42 A	Moment of inertia (J)	: 0.0060 kgm²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.756 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1440 rpm	Design	: B

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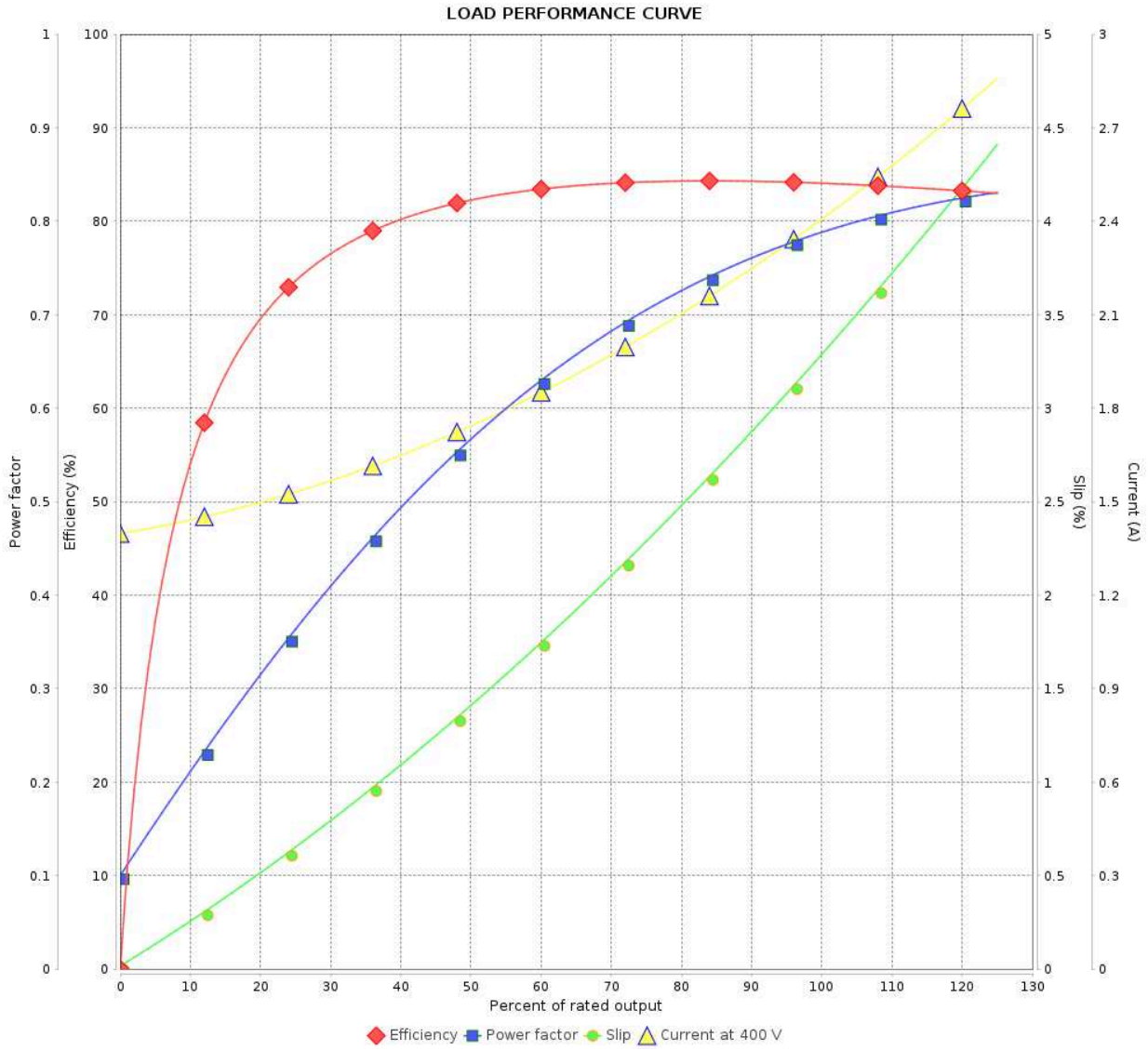
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	11523675



Performance	: 400 V 50 Hz 4P IE3		
Rated current	: 2.33 A	Moment of inertia (J)	: 0.0060 kgm²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 0.751 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1445 rpm	Design	: B

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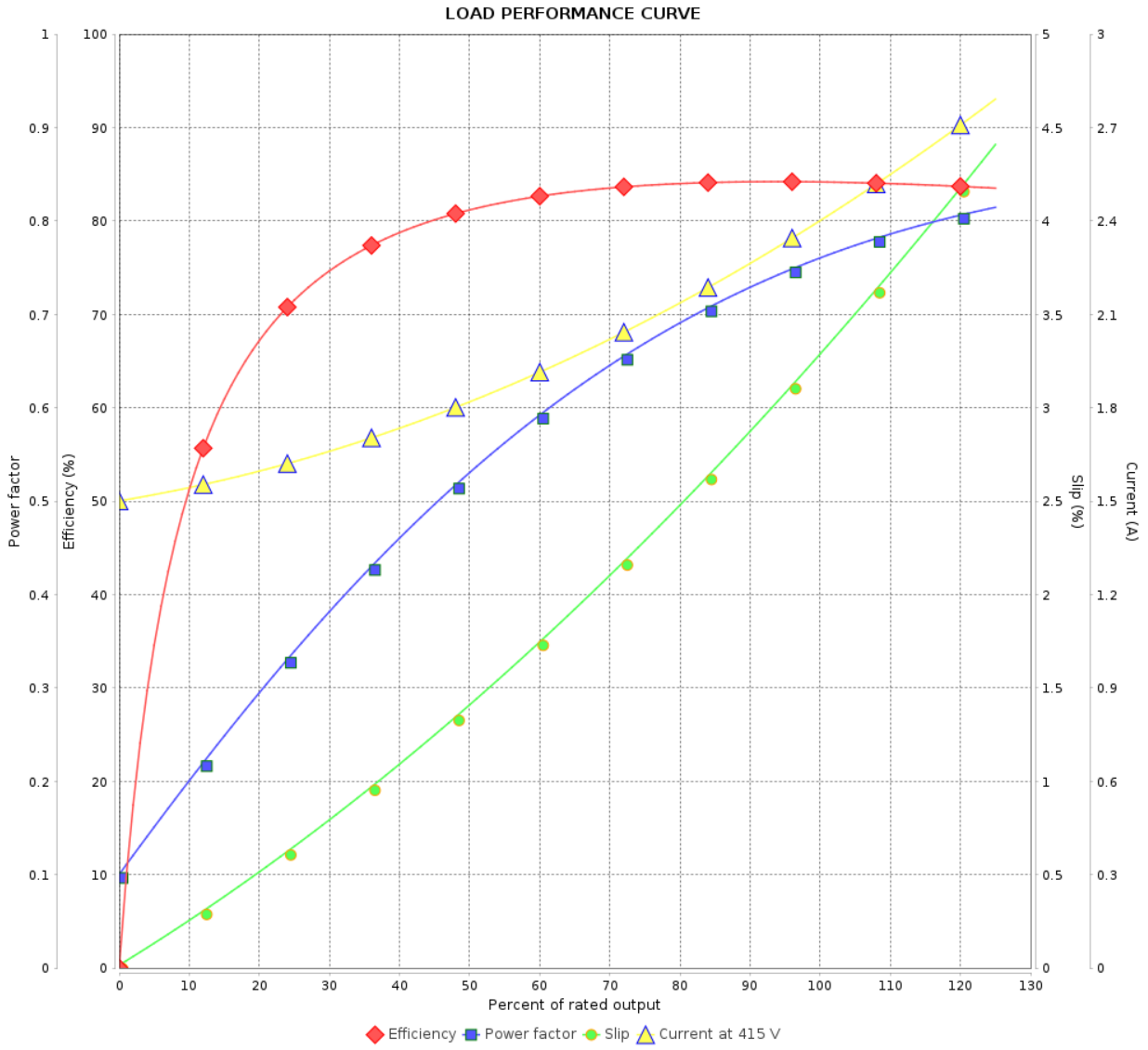
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	11523675

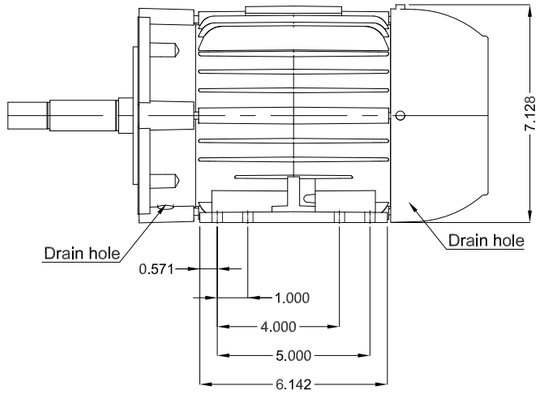


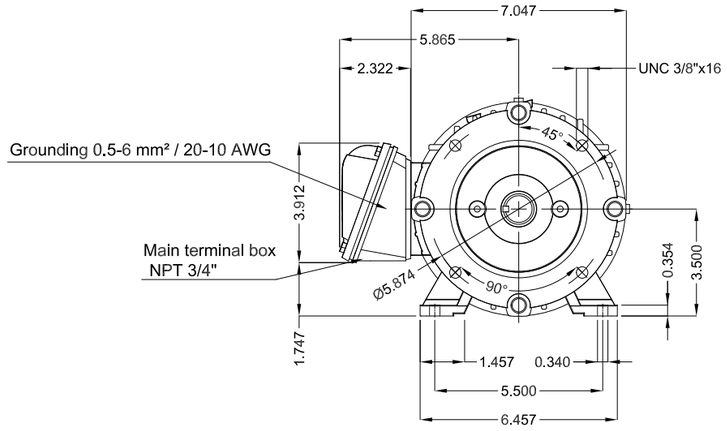
Performance	: 415 V 50 Hz 4P IE3		
Rated current	: 2.30 A	Moment of inertia (J)	: 0.0060 kgm²
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.751 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.25
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1450 rpm	Design	: B

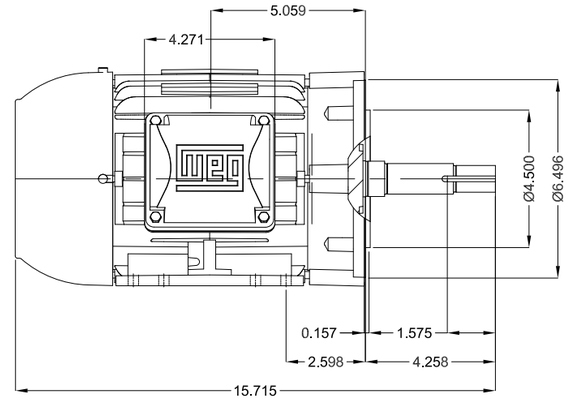
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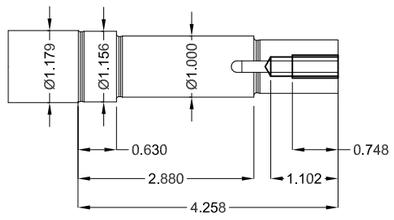
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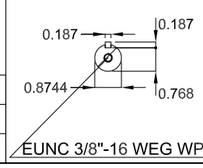








DE Shaft End



EUNC 3/8"-16 WEG WPR-7309

Color RAL 5009

Painting plan 207A

Mounting B34R(D)

1.5 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 143/5JM IP55 TEFC	WDD 00
RELEASED			
REL. DATE			SHEET /

Dimensions in inches

A3

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