DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase

Product code : 11439868

Frame	: 404/5T	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]	: 561 kg
Protection degree	: IP55	Moment of inertia (J)	: 1.11 kgm²
Design	: B		

Output [HP]		100	75	75	75
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		226/113	103	100	98.7
L. R. Amperes [A]		1627/814	773	840	898
LRC [A]		7.2x(Code H)	7.5x(Code H)	8.4x(Code J)	9.1x(Code K)
No load current [A]		78.0/39.0	39.0	42.0	45.0
Rated speed [RPM]		1780	1480	1485	1485
Slip [%]		1.11	1.33	1.00	1.00
Rated torque [kgfm]		40.8	36.8	36.7	36.7
Locked rotor torque [%]		270	270	300	320
Breakdown torque [%]		280	310	360	370
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		23s (cold) 13s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level[2]		75.0 dB(A)	70.0 dB(A)	70.0 dB(A)	70.0 dB(A)
Efficiency (%)	25%	94.0	93.9	93.4	93.4
	50%	94.5	94.0	93.6	93.6
	75%	95.0	94.5	94.5	94.5
	100%	95.4	94.5	94.5	94.5
Power Factor	25%	0.47	0.44	0.41	0.38
	50%	0.72	0.69	0.65	0.62
	75%	0.82	0.80	0.77	0.75
	100%	0.87	0.86	0.84	0.82

		Drive end	Non drive end
Bearing type	:	6217 C3	6314 C3
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	9149 h	9789 h
Lubricant amount	:	21 g	27 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 1057 kgf

Max. compression : 1611 kgf

Notes

USABLE @208V 250A SF 1.00 SFA 250A

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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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 ºC

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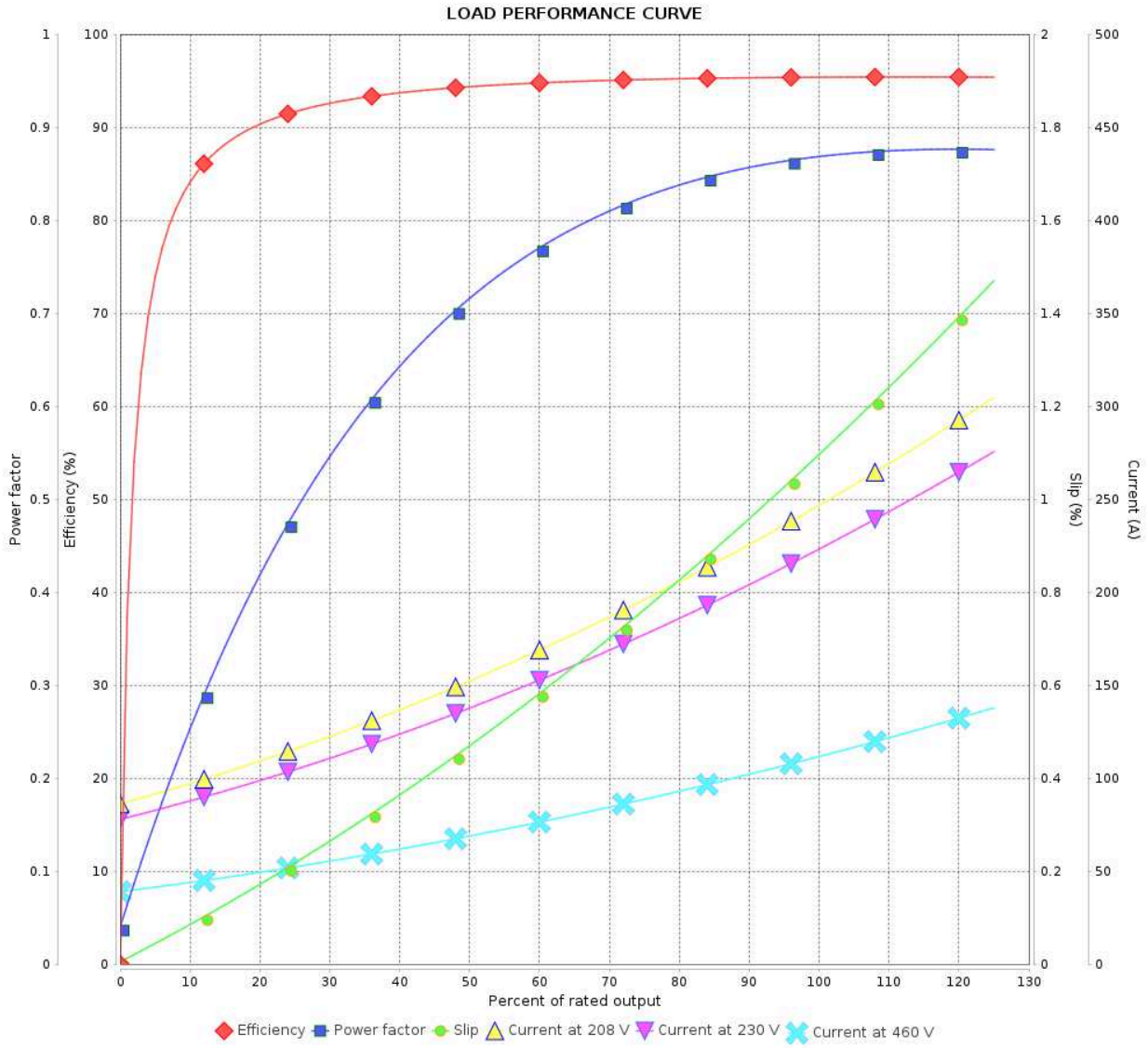
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Three Phase Induction Motor - Squirrel Cage

Customer :

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Product code : 11439868



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 226/113 A	Moment of inertia (J)	: 1.11 kgm²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 40.8 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B

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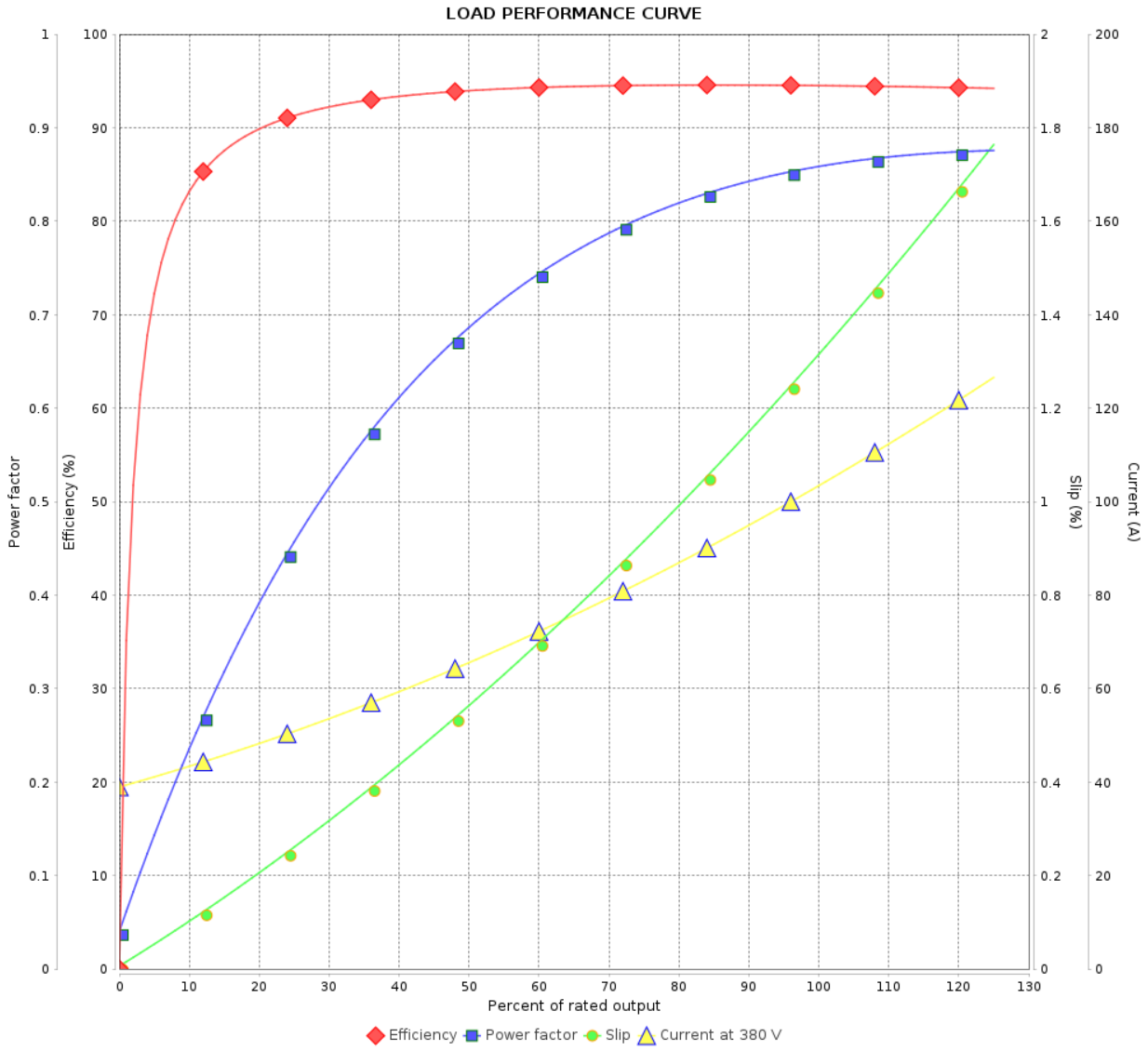
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W21 Explosion Proof NEMA Premium Efficiency Three-Phase	Product code :	11439868



Performance	: 380 V 50 Hz 4P IE2

Rated current	: 103 A	Moment of inertia (J)	: 1.11 kgm²
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 36.8 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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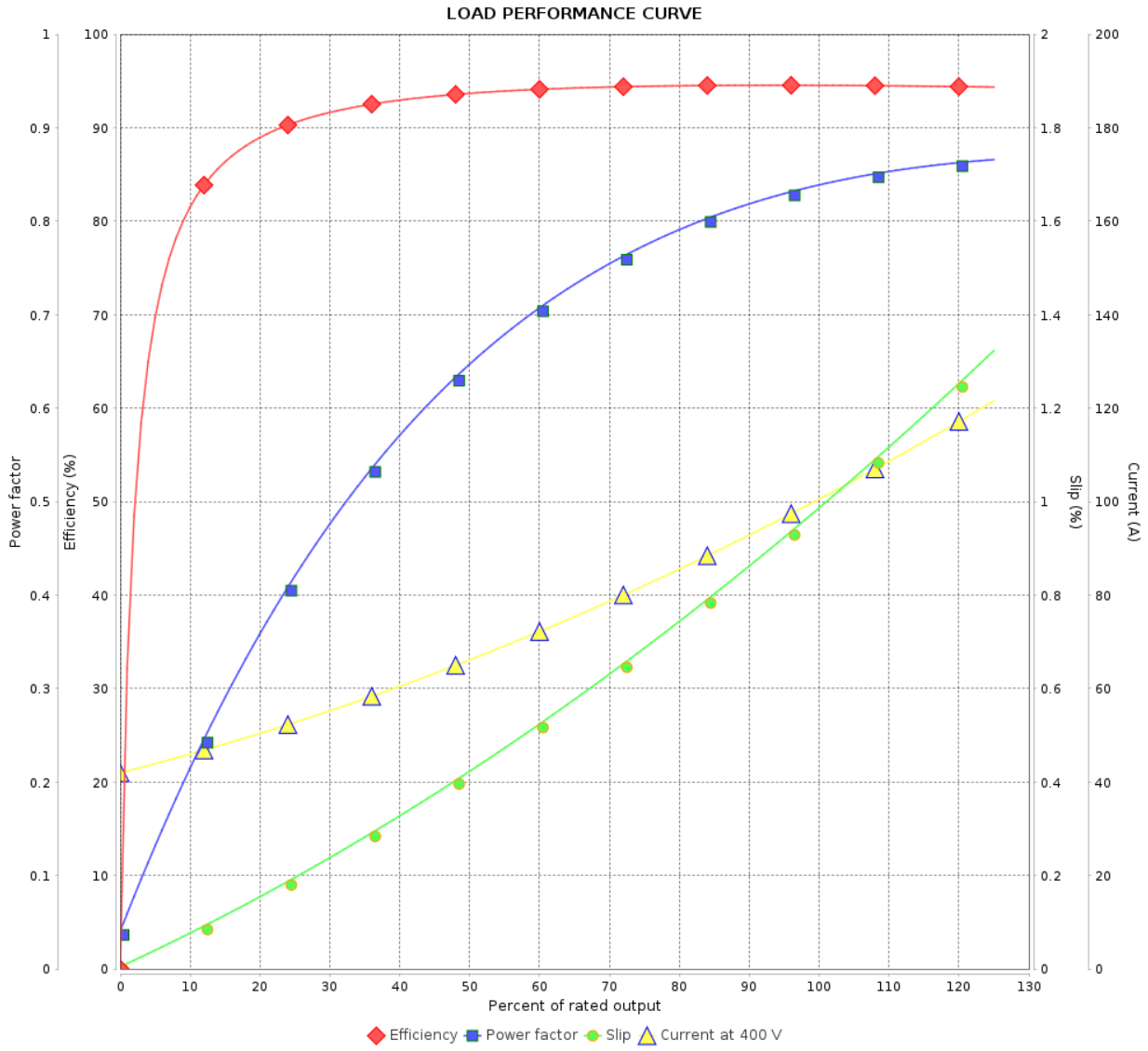
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase

Product code : 11439868



Performance	: 400 V 50 Hz 4P IE2		
Rated current	: 100 A	Moment of inertia (J)	: 1.11 kgm²
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 36.7 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.00
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 1485 rpm	Design	: B

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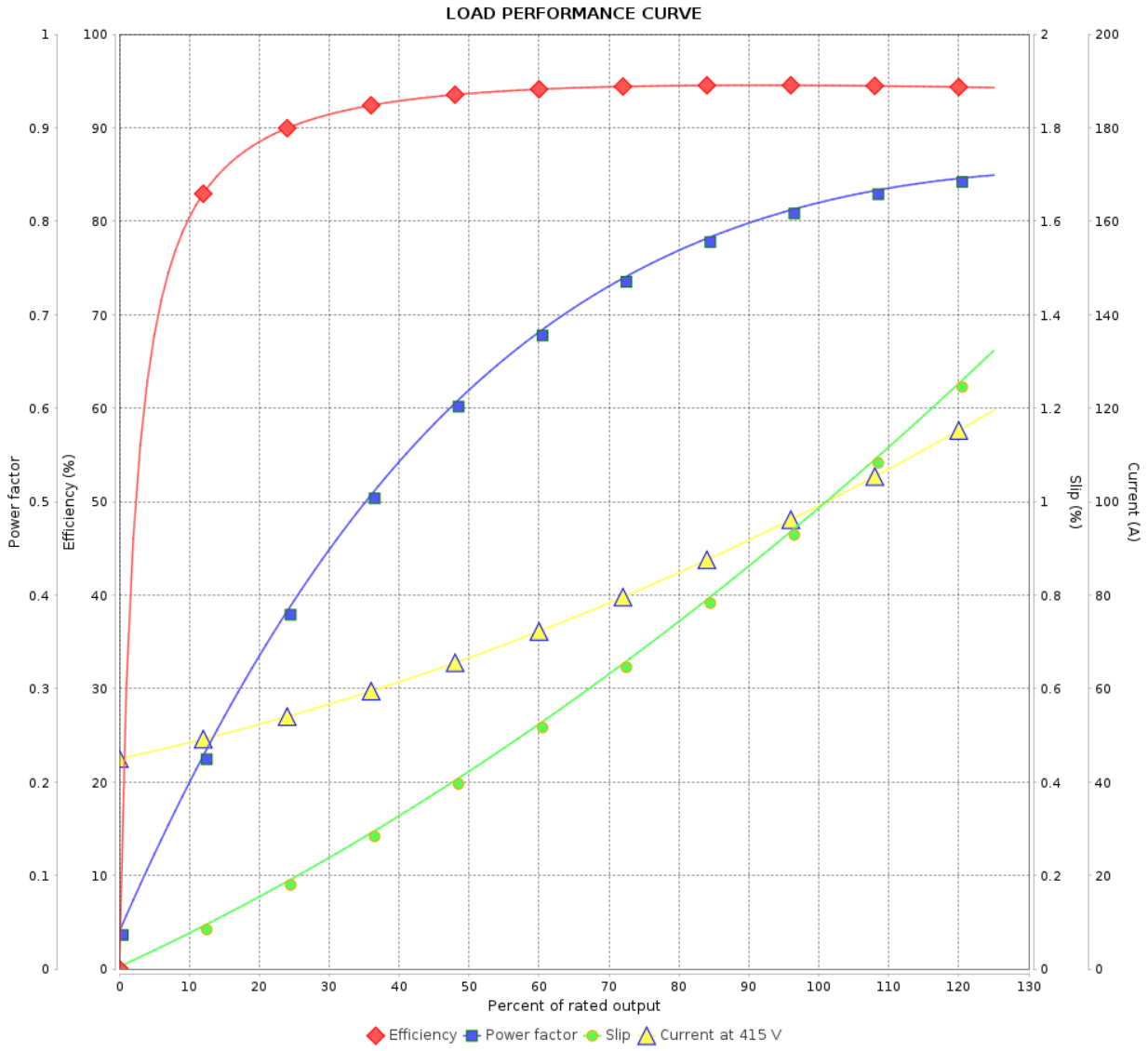
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Three Phase Induction Motor - Squirrel Cage

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Product line	: W21 Explosion Proof NEMA Premium Efficiency Three-Phase	Product code :	11439868



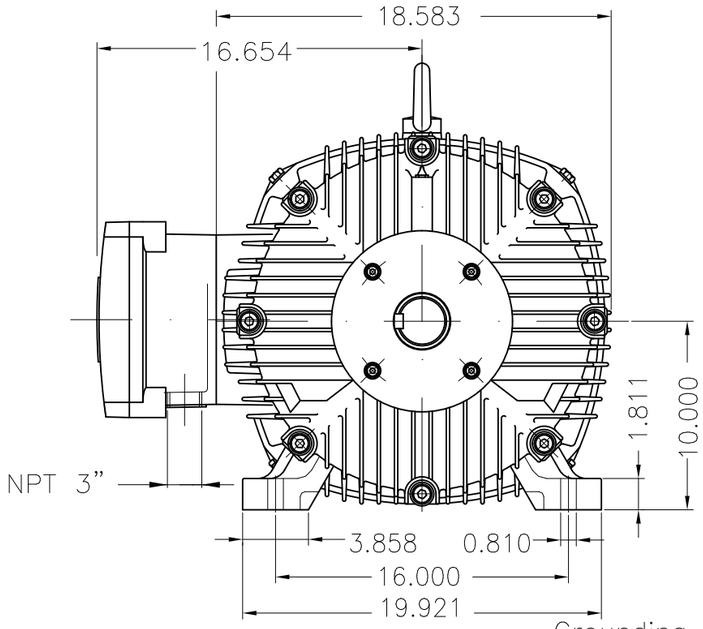
Performance	: 415 V 50 Hz 4P IE2

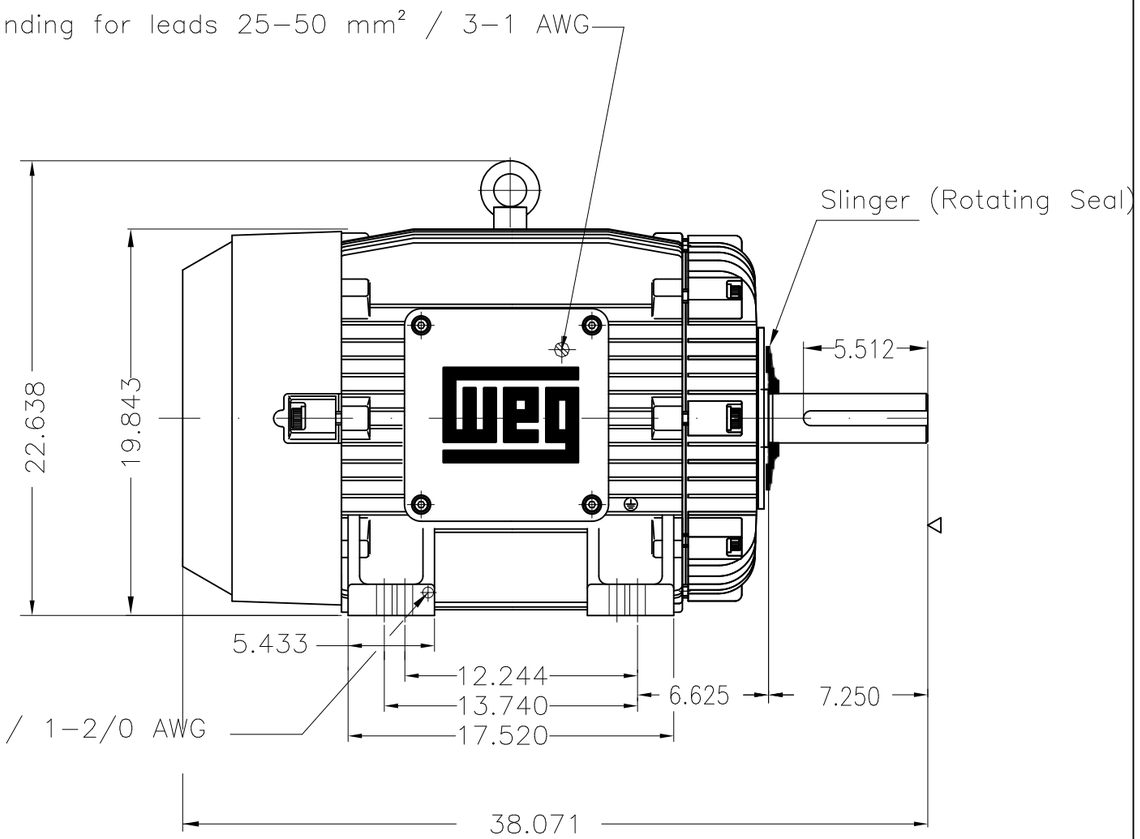
Rated current	: 98.7 A	Moment of inertia (J)	: 1.11 kgm²
LRC	: 9.1	Duty cycle	: Cont.(S1)
Rated torque	: 36.7 kgfm	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.00
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 1485 rpm	Design	: B

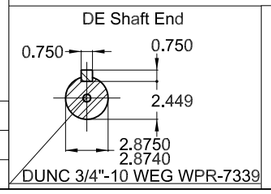
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Color RAL 5009

Painting plan 202P

Mounting B3R(D)

100 HP 04 Poles 60 Hz | A

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

EXECUTED	HYBRISUSER	THREE PH. MOTOR EXPLOSION PROOF NEMA PREM. EFF.	PREVIEW
CHECKED		FRAME 404/5T IP55 TEFC	WDD 00
RELEASED			
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1

Dimensions in inches

XME A3

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