DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 P Base NEMA Premium Efficiency Three-Phase	Product code :	13129046

Frame	: 213HP	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: W-6
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	: 70.6 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0504 kgm²
Design	: B		

Output [HP]		3	3	3	3
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		8.82/4.41	5.09	4.97	4.93
L. R. Amperes [A]		61.7/30.9	29.5	31.8	33.5
LRC [A]		7.0x(Code K)	5.8x(Code H)	6.4x(Code J)	6.8x(Code K)
No load current [A]		5.10/2.55	2.45	2.60	2.75
Rated speed [RPM]		1175	965	970	970
Slip [%]		2.08	3.50	3.00	3.00
Rated torque [kgfm]		1	2	2	2
Locked rotor torque [%]		190	170	180	200
Breakdown torque [%]		270	229	240	250
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		104s (cold) 58s (hot)	72s (cold) 40s (hot)	72s (cold) 40s (hot)	72s (cold) 40s (hot)
Noise level²		55.0 dB(A)	53.0 dB(A)	53.0 dB(A)	53.0 dB(A)
Efficiency (%)	25%				
	50%	86.5	87.0	87.0	87.0
	75%	88.5	88.0	88.0	88.0
	100%	89.5	87.5	87.5	87.5
Power Factor	25%				
	50%	0.50	0.57	0.53	0.50
	75%	0.63	0.70	0.66	0.64
	100%	0.70	0.75	0.73	0.71

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

Losses (%)	P1 (0,9;1,0)	11.0	13.4	13.4	13.4
	P2 (0,5;1,0)	8.6	10.5	10.5	10.5
	P3 (0,25;1,0)	8.0	9.7	9.7	9.7
	P4 (0,9;0,5)	6.6	8.0	8.0	8.0
	P5 (0,5;0,5)	4.3	5.3	5.3	5.3
	P6 (0,5;0,25)	3.4	4.1	4.1	4.1
	P7 (0,25;0,25)	2.4	3.0	3.0	3.0

		Drive end	Non drive end
Bearing type	:	6309 ZZ	6207 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	00088	

Foundation loads

Max. traction : 0 kgf

Max. compression : 0 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).
(3) Approximate weight subject to changes after manufacturing process.

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 9.76A SF 1.15 SFA 11.2A

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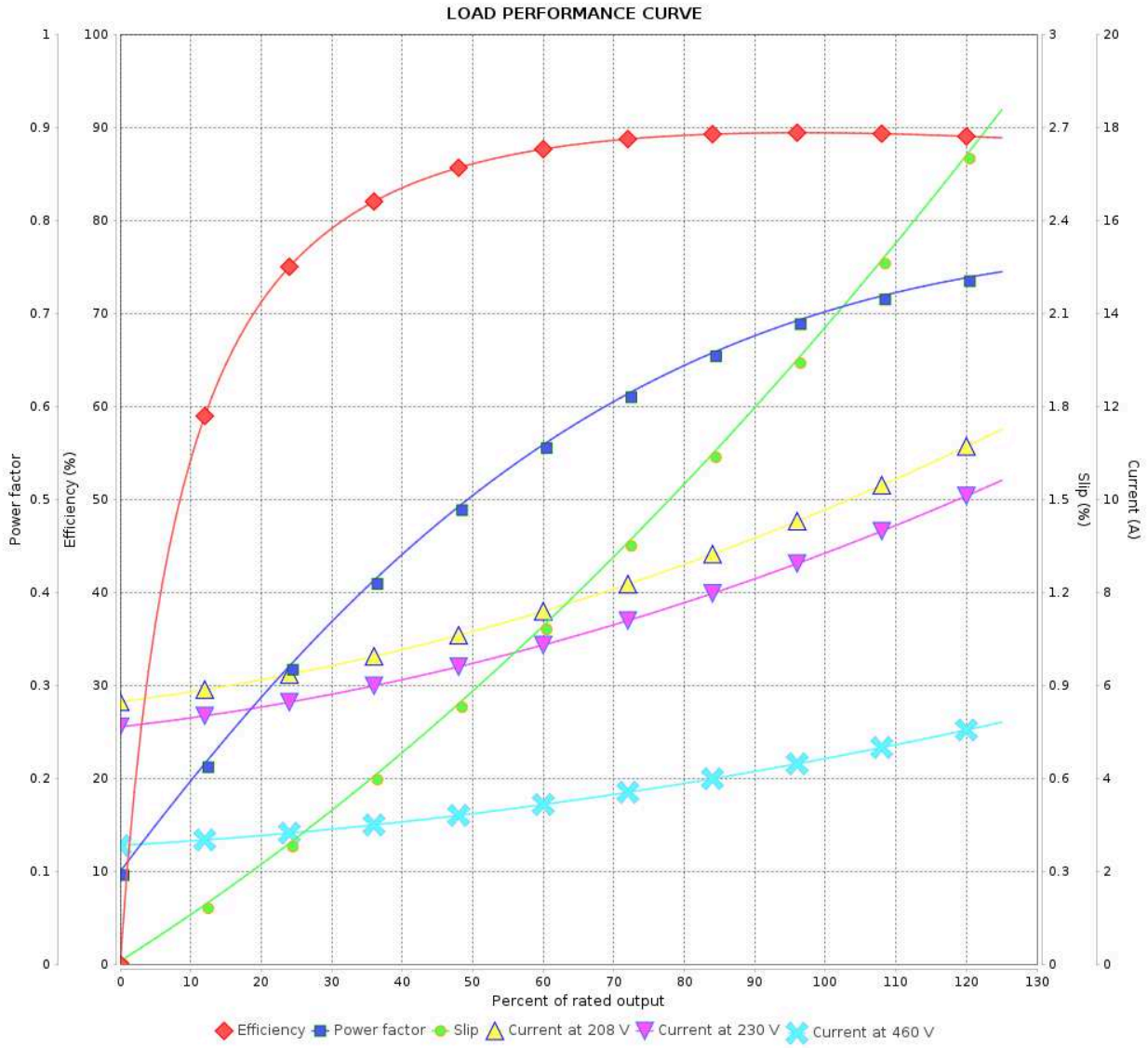
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase

Product code : 13129046



Performance	: 230/460 V 60 Hz 6P		
Rated current	: 8.82/4.41 A	Moment of inertia (J)	: 0.0504 kgm²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 1 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1175 rpm	Design	: B

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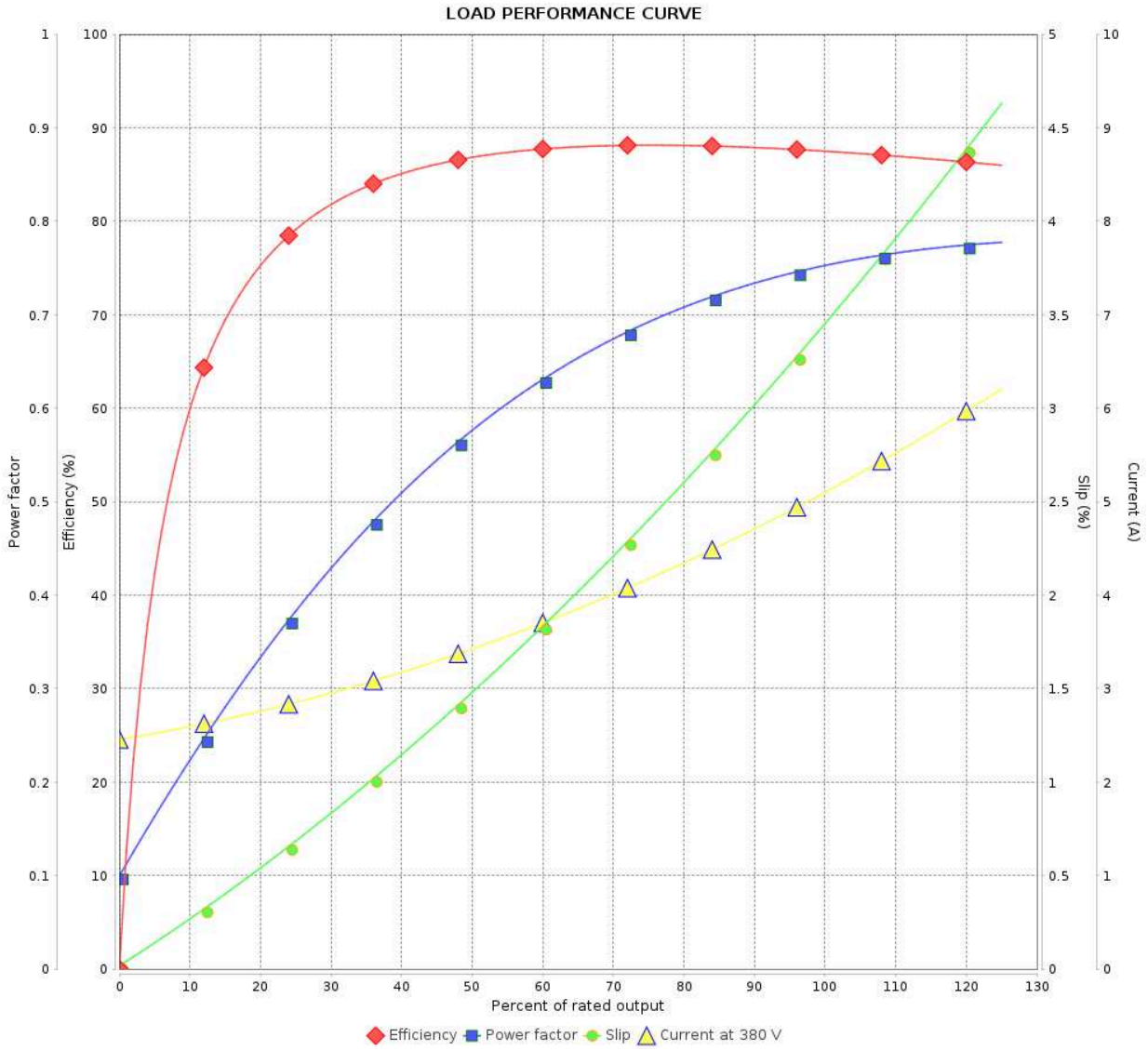
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Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: W22 P Base NEMA Premium Efficiency Three-Phase	Product code :	13129046



Performance	: 380 V 50 Hz 6P IE4		
Rated current	: 5.09 A	Moment of inertia (J)	: 0.0504 kgm²
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 965 rpm	Design	: B

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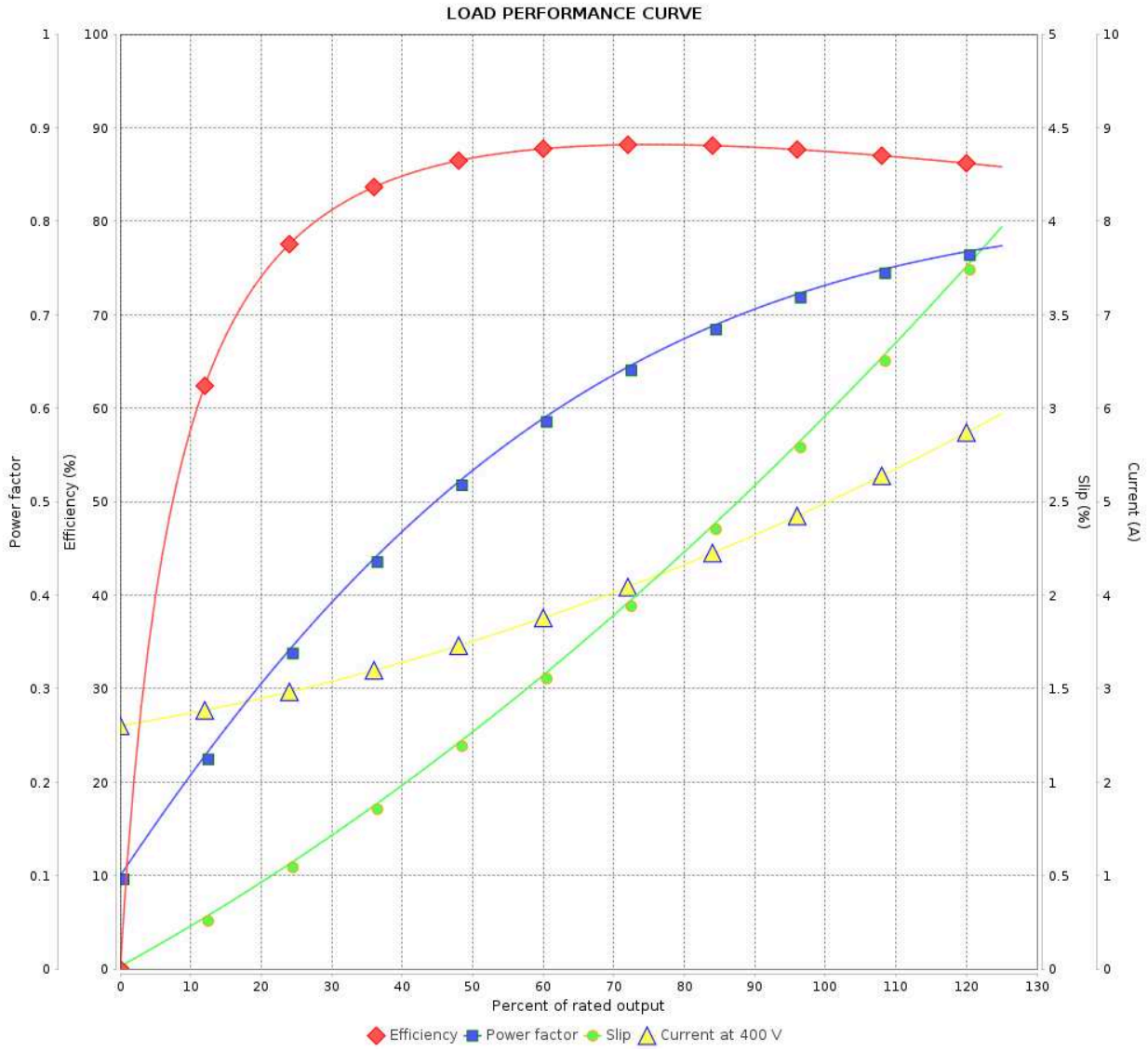
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase

Product code : 13129046



Performance	: 400 V 50 Hz 6P IE4		
Rated current	: 4.97 A	Moment of inertia (J)	: 0.0504 kgm²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 970 rpm	Design	: B

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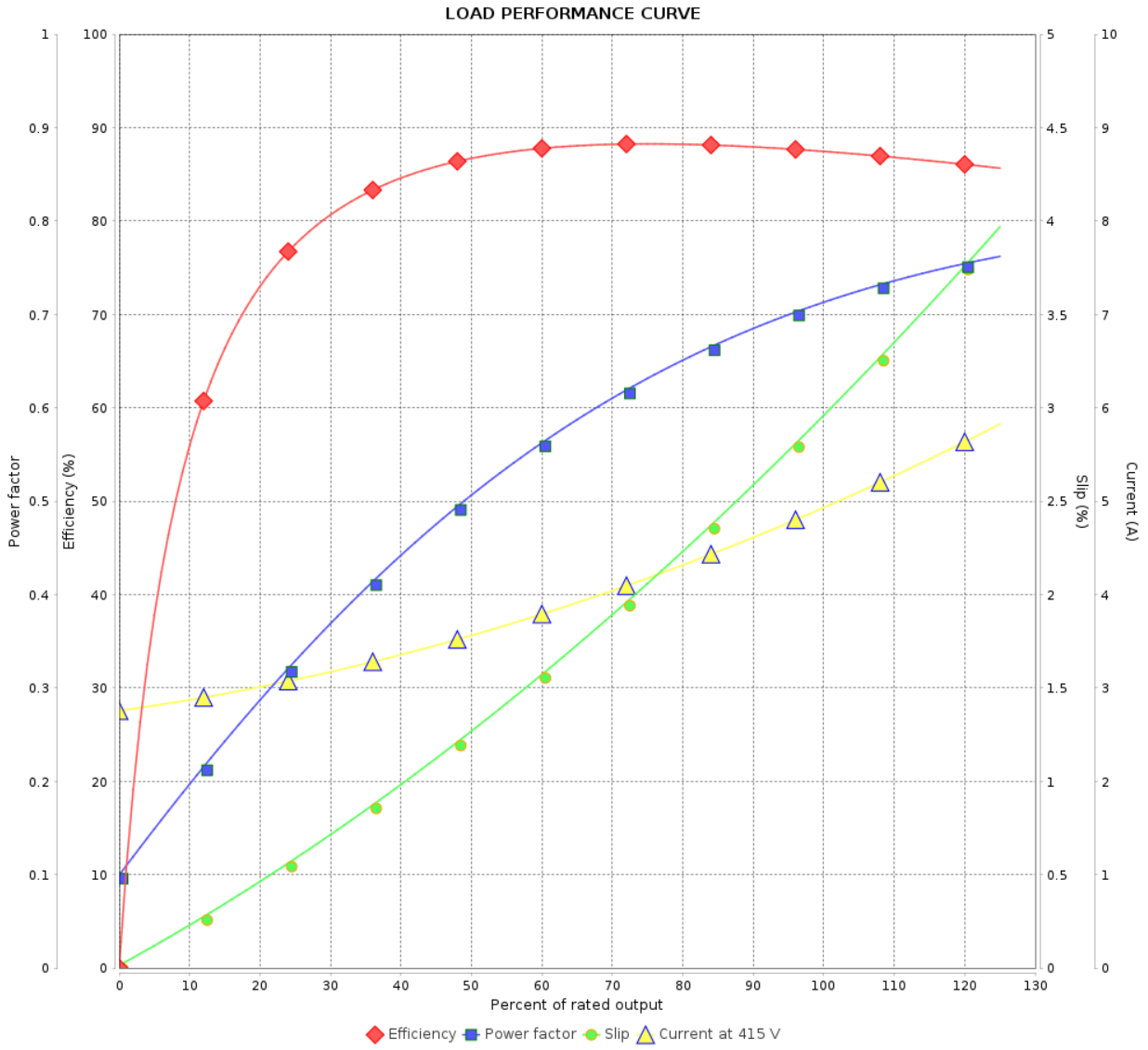
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Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: W22 P Base NEMA Premium Efficiency Three-Phase	Product code :	13129046

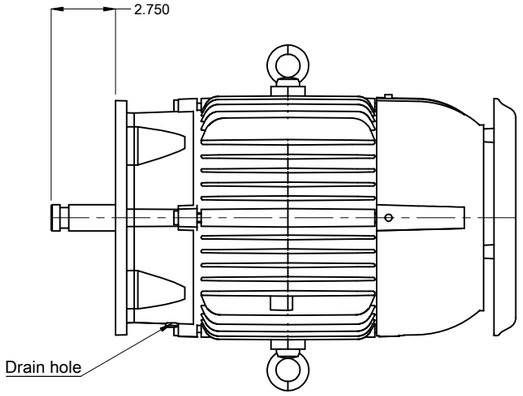


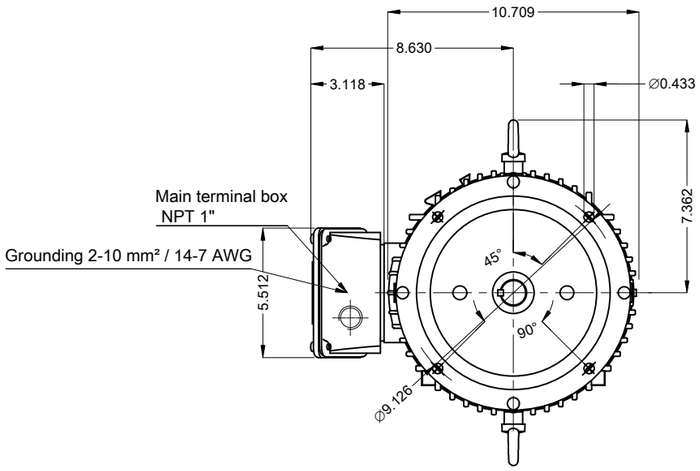
Performance	: 415 V 50 Hz 6P IE4		
Rated current	: 4.93 A	Moment of inertia (J)	: 0.0504 kgm²
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 970 rpm	Design	: B

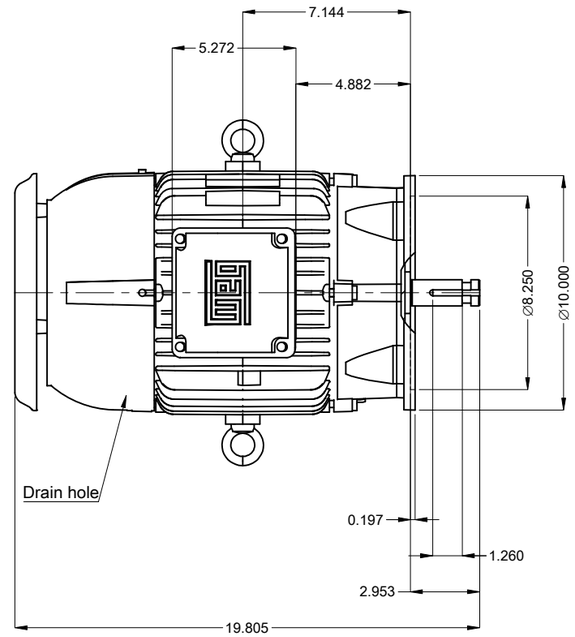
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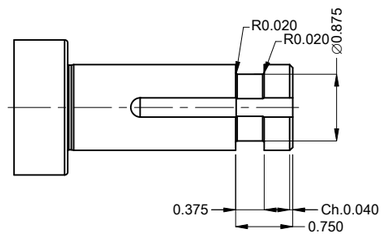
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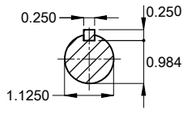








DE Shaft End



With drip cover
Color RAL 5009
Painting plan 207A
Mounting NEMA W-6
Mounting V1

3 HP 06 Poles 60 Hz | A

Scale 2 : 13

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

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR W22 P. BASE NEMA PREM. EFF.
FRAME 213HP IP55 TEFC

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in inches

A3

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