DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 13181313

Frame	: 284HPH	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	: 176 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.2153 kgm²
Design	: B		

Output [HP]		25	20	20	20	25	25	25
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		59.0/29.5	29.1	28.2	27.5	35.9	34.3	33.2
L. R. Amperes [A]		366/183	175	189	198	190	189	196
LRC [A]		6.2x(Code G)	6.0x(Code G)	6.7x(Code H)	7.2x(Code J)	5.3x(Code F)	5.5x(Code F)	5.9x(Code G)
No load current [A]		22.0/11.0	11.0	11.7	12.4	11.0	11.7	12.4
Rated speed [RPM]		1770	1470	1473	1475	1455	1460	1465
Slip [%]		1.67	2.00	1.80	1.67	3.00	2.67	2.33
Rated torque [kgfm]		10.3	9.87	9.85	9.84	12.5	12.4	12.4
Locked rotor torque [%]		240	229	250	270	180	200	220
Breakdown torque [%]		270	260	300	330	210	240	260
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		43s (cold) 24s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level²		63.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)
Efficiency (%)	25%							
	50%	92.4	91.3	91.3	91.2	92.4	92.4	92.4
	75%	93.0	92.1	92.5	92.5	91.7	92.4	92.4
	100%	93.6	92.1	92.6	92.7	91.0	91.7	92.4
Power Factor	25%							
	50%	0.70	0.69	0.65	0.62	0.76	0.73	0.70
	75%	0.80	0.80	0.78	0.75	0.84	0.82	0.80
	100%	0.84	0.85	0.83	0.82	0.86	0.85	0.84

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

Losses (%)	P1 (0,9;1,0)	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	P2 (0,5;1,0)	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	P3 (0,25;1,0)	5.3	5.3	5.3	5.3	5.3	5.3	5.3
	P4 (0,9;0,5)	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	P5 (0,5;0,5)	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	P6 (0,5;0,25)	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	P7 (0,25;0,25)	1.0	1.0	1.0	1.0	1.0	1.0	1.0

		Drive end	Non drive end
Bearing type	:	6314 C3	6211 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	12000 h	17000 h
Lubricant amount	:	27 g	11 g
Lubricant type	:	Mobil Polyrex EM	

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.

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 65.2A SF 1.15 SFA 75.0A

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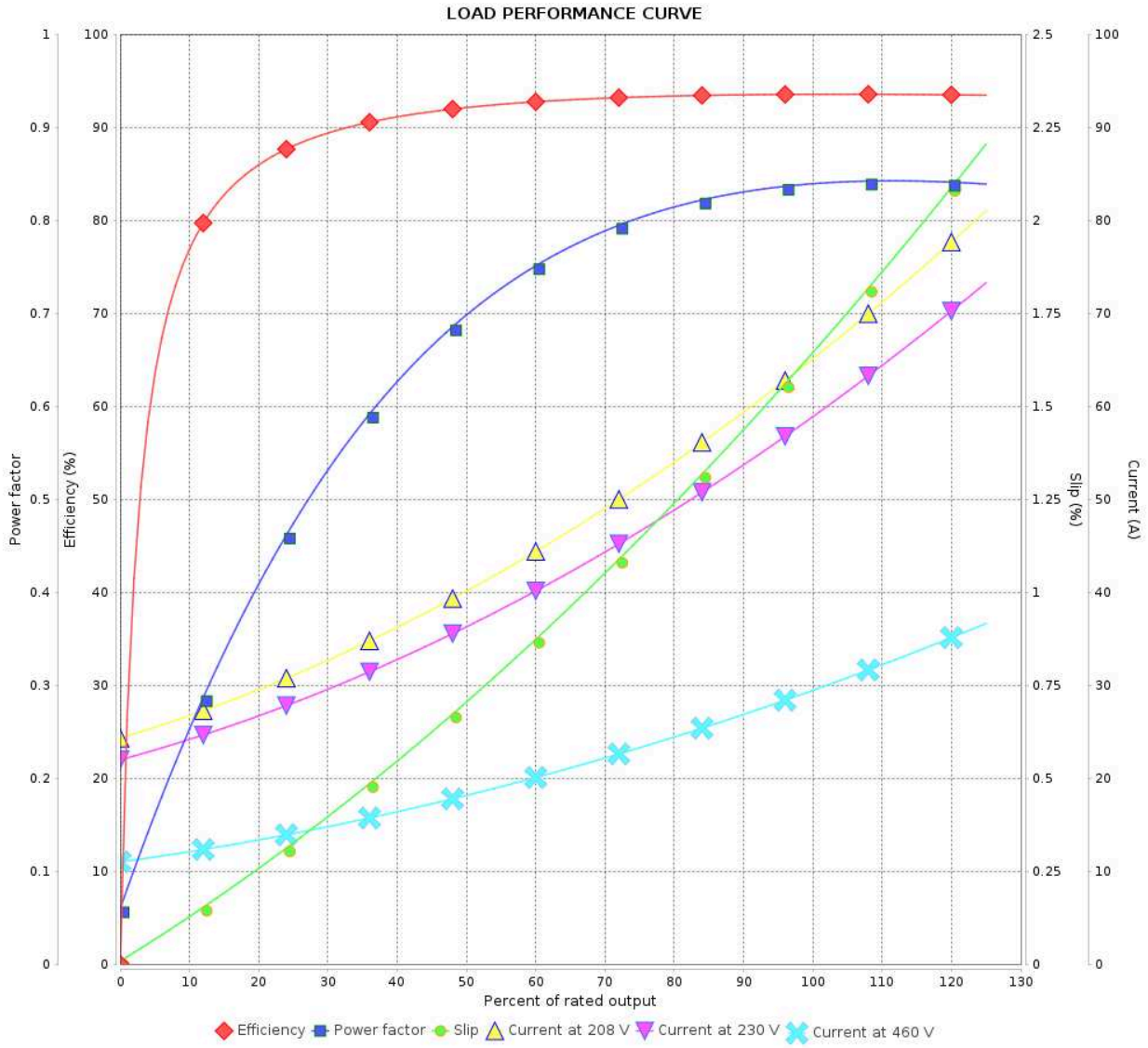
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 P Base NEMA Premium Efficiency Three-Phase	Product code :	13181313



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 59.0/29.5 A	Moment of inertia (J)	: 0.2153 kgm²
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 10.3 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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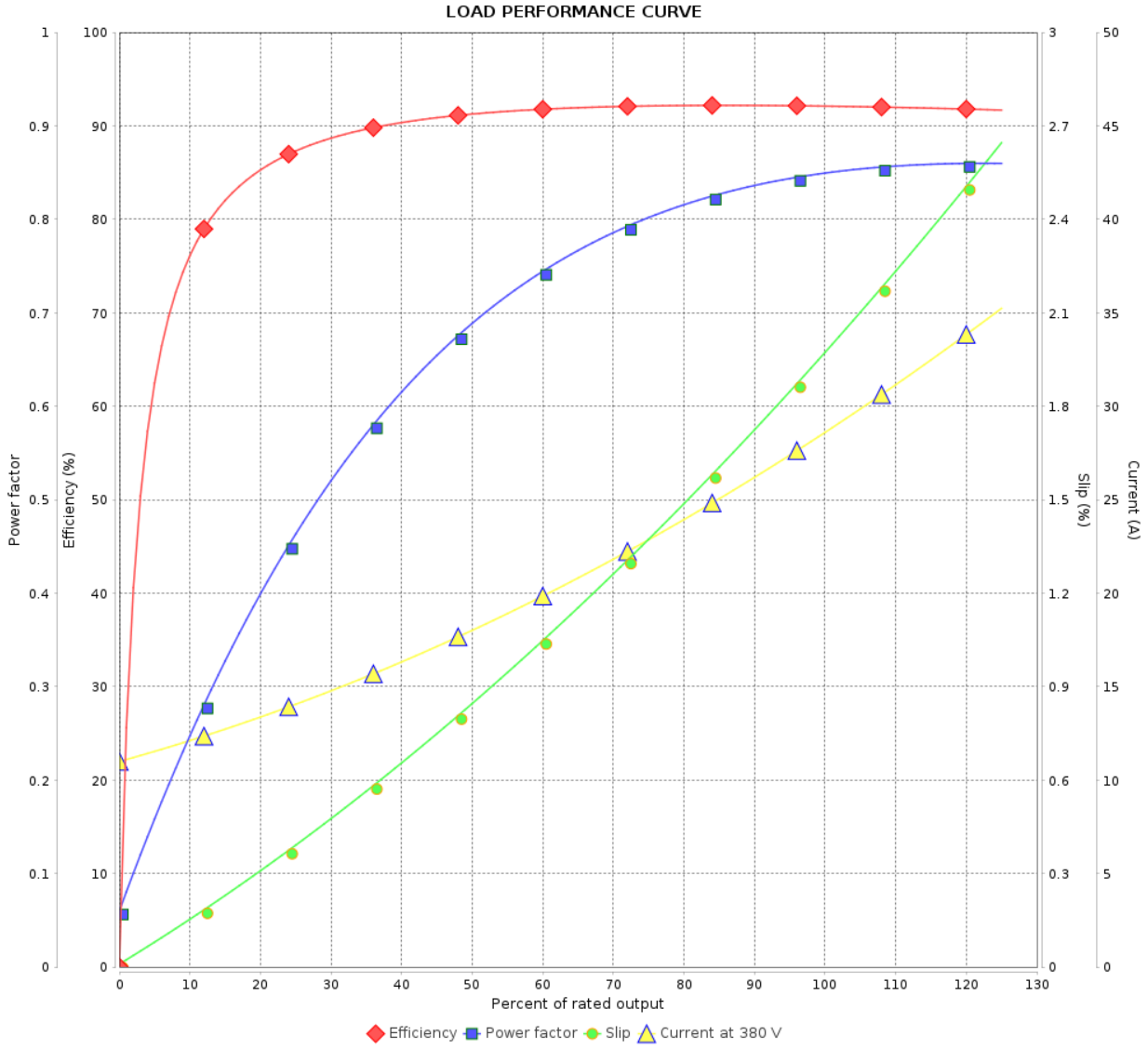
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 P Base NEMA Premium Efficiency Three-Phase	Product code :	13181313



Performance	: 380 V 50 Hz 4P IE3

Rated current	: 29.1 A	Moment of inertia (J)	: 0.2153 kgm²
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 9.87 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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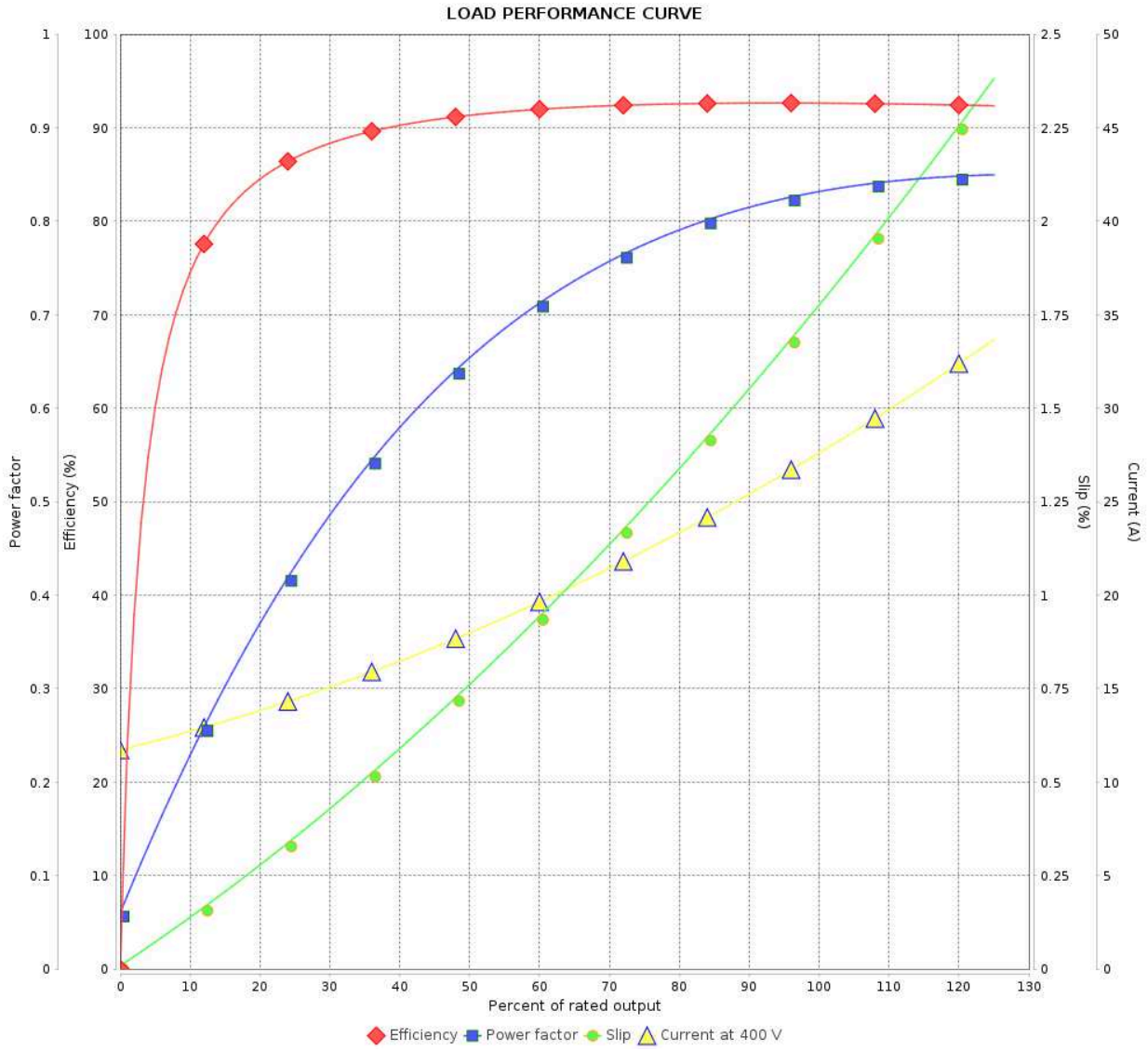
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Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 13181313



Performance	: 400 V 50 Hz 4P IE3		
Rated current	: 28.2 A	Moment of inertia (J)	: 0.2153 kgm²
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 9.85 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1473 rpm	Design	: B

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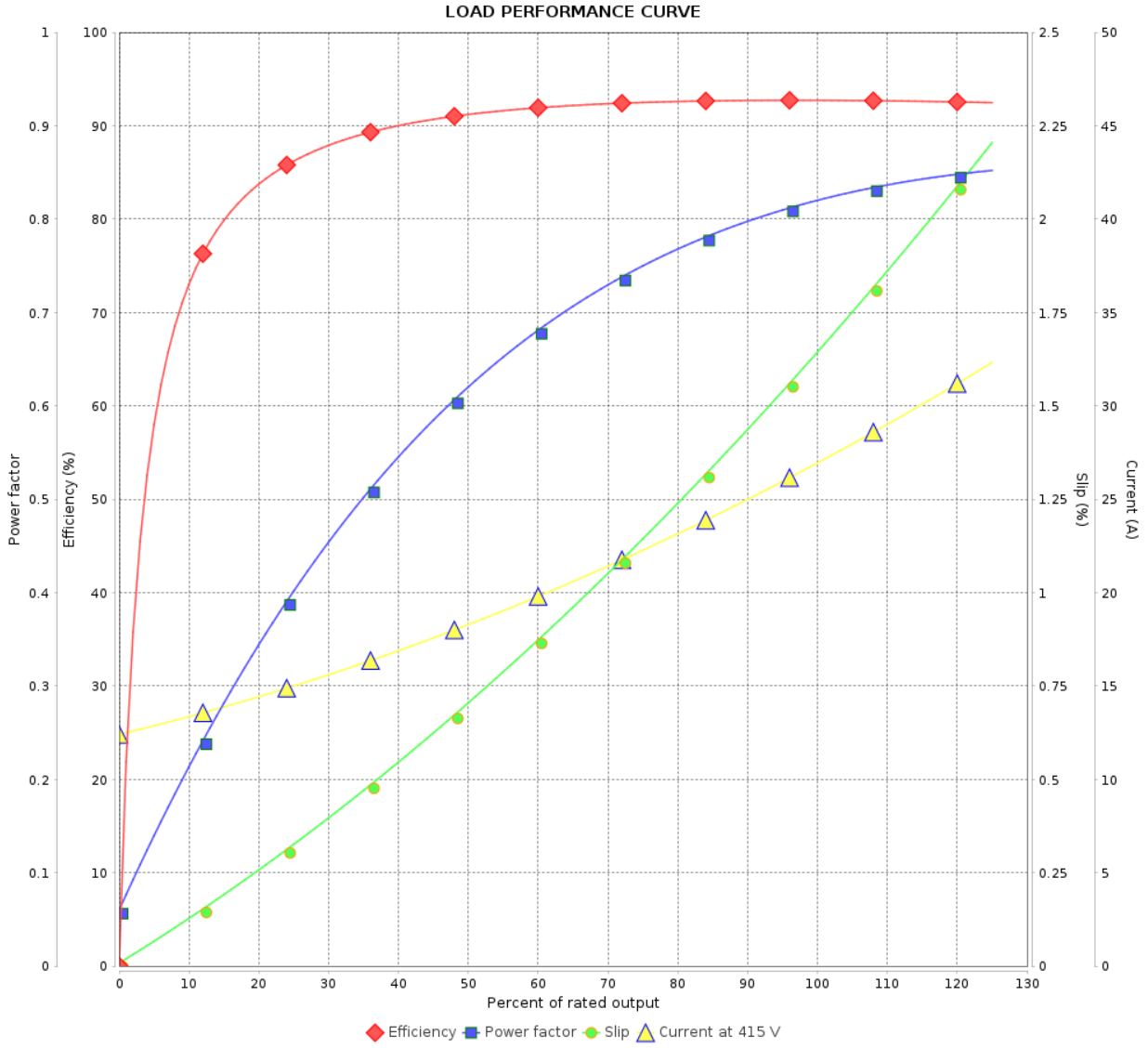
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Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 13181313



Performance	: 415 V 50 Hz 4P IE3		
Rated current	: 27.5 A	Moment of inertia (J)	: 0.2153 kgm²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 9.84 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

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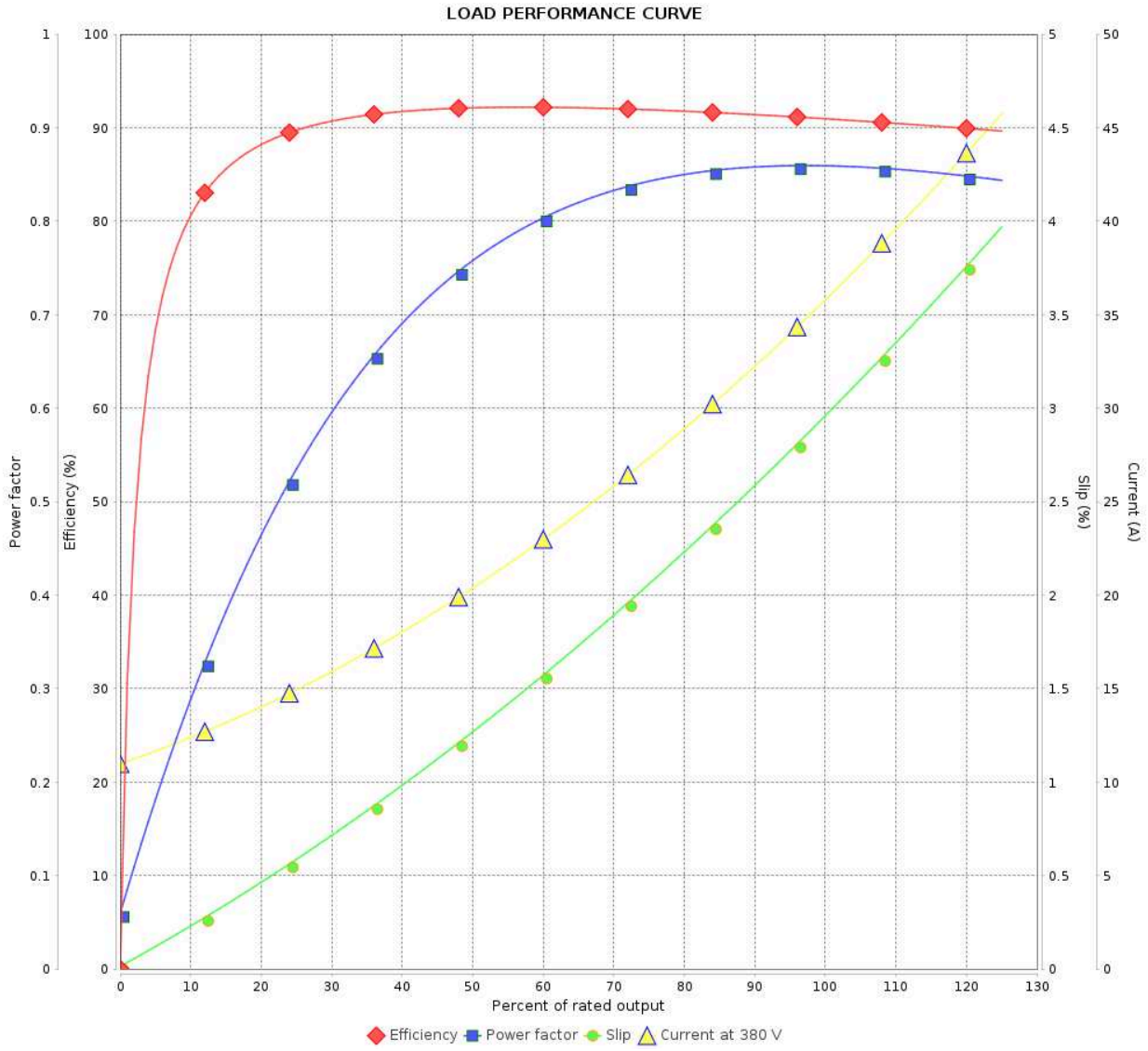
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Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 13181313



Performance	: 380 V 50 Hz 4P IE1		
Rated current	: 35.9 A	Moment of inertia (J)	: 0.2153 kgm²
LRC	: 5.3	Duty cycle	: Cont.(S1)
Rated torque	: 12.5 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 1455 rpm	Design	: B

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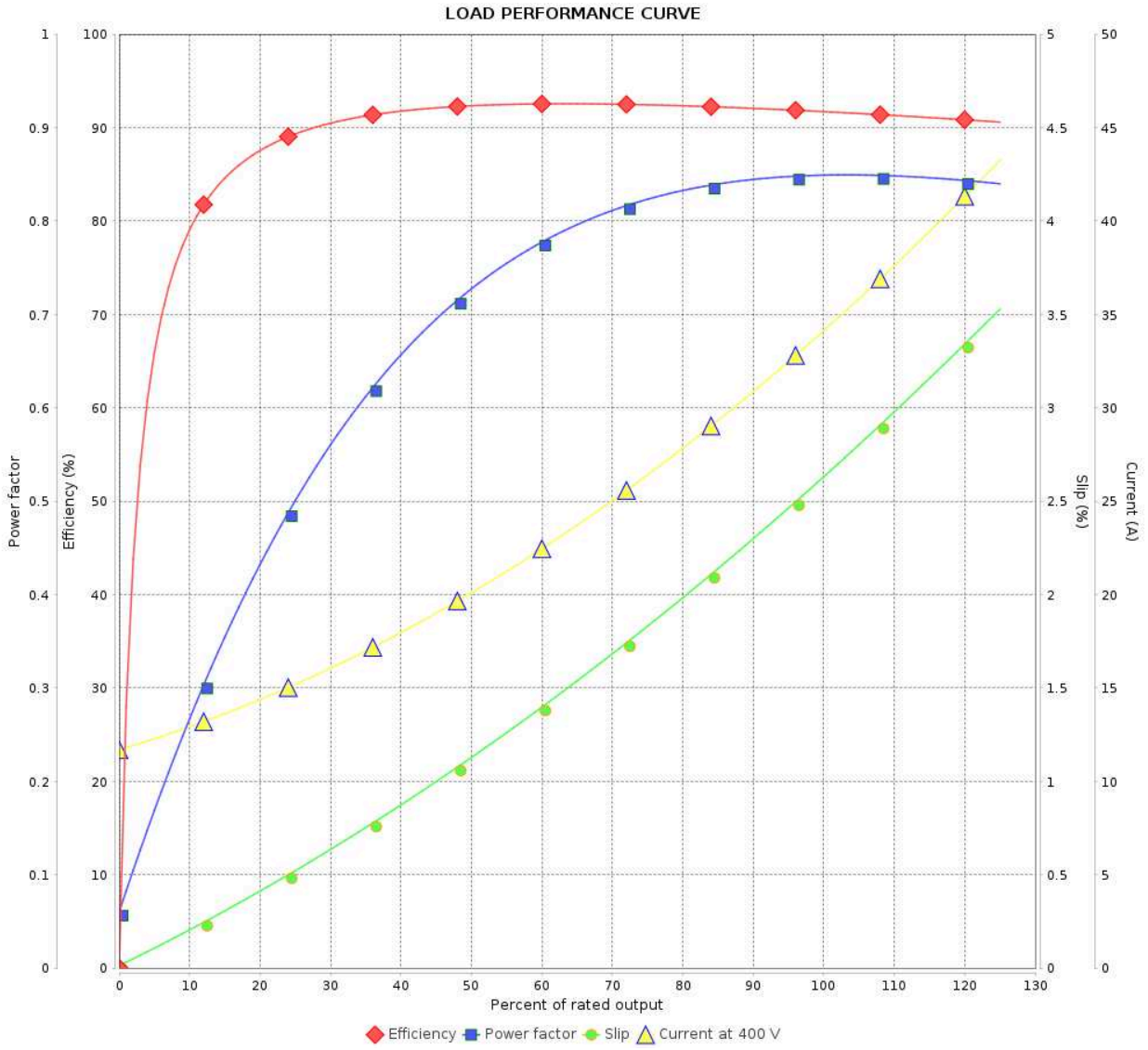
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Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 13181313



Performance	: 400 V 50 Hz 4P IE2		
Rated current	: 34.3 A	Moment of inertia (J)	: 0.2153 kgm²
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 12.4 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 1460 rpm	Design	: B

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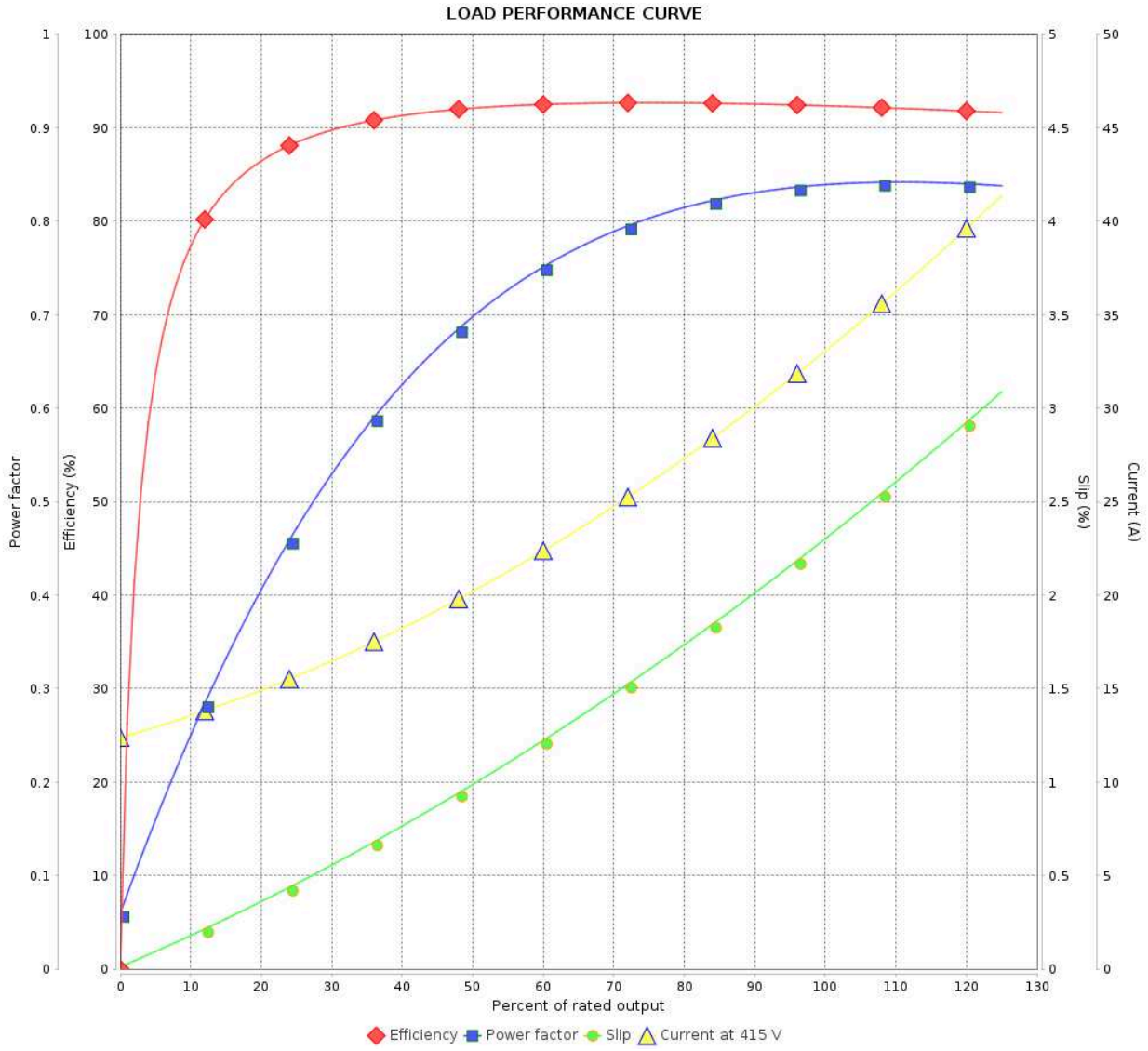
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Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 13181313

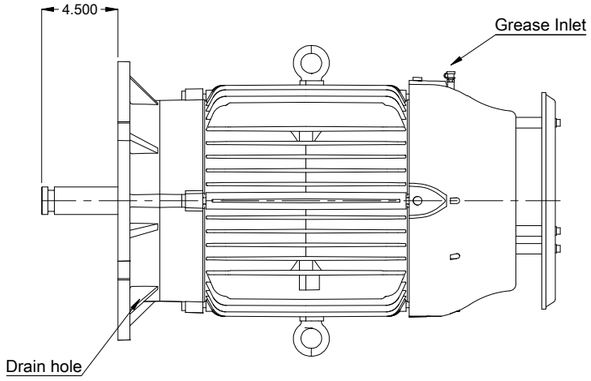


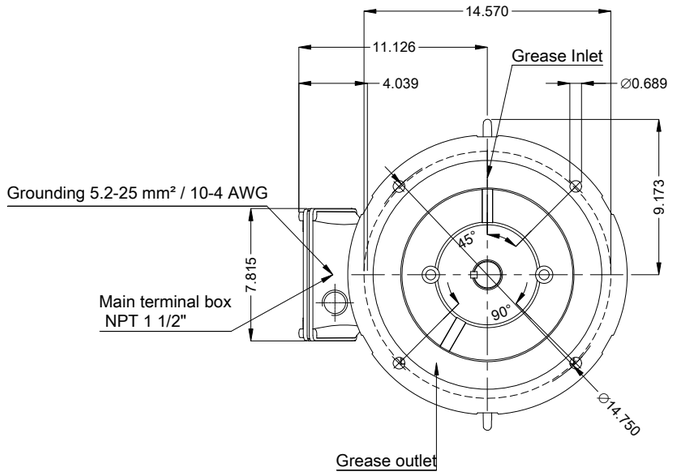
Performance	: 415 V 50 Hz 4P IE2		
Rated current	: 33.2 A	Moment of inertia (J)	: 0.2153 kgm²
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 12.4 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 105 K
Rated speed	: 1465 rpm	Design	: B

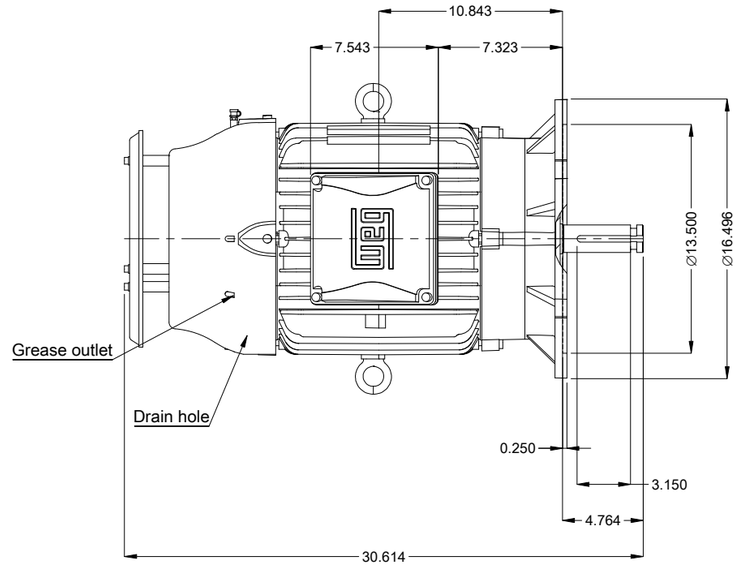
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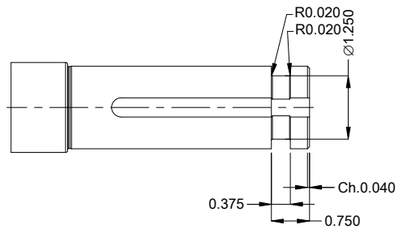
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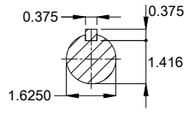






Without vertical jackscrews
With drip cover
Color RAL 5009
Painting plan 203A
Mounting NEMA W-6
Mounting V1

DE Shaft End



25 HP 04 Poles 60 Hz | A

Scale 1 : 9

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

EXECUTED	PIRWBUSER	THREE PH. MOTOR W22 P. BASE NEMA PREM. EFF.	PREVIEW
CHECKED		FRAME 284HPH IP55 TEFC	WDD 00
RELEASED			
REL. DATE		WID [Vendas e Marketing]	SHEET 1 / 1

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Dimensions in inches

A3

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