DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 13016536

Frame	: 254HP	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	: 107 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0530 kgm²
Design	: B		

Output [HP]		15	10	10	10	15	15	15
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		34.5/17.2	14.5	14.0	13.7	20.8	19.8	19.3
L. R. Amperes [A]		231/116	98.4	105	108	102	109	114
LRC [A]		6.7x(Code G)	6.8x(Code H)	7.5x(Code J)	7.9x(Code J)	4.9x(Code D)	5.5x(Code F)	5.9x(Code F)
No load current [A]		10.6/5.30	5.10	5.40	5.70	5.10	5.40	5.70
Rated speed [RPM]		3530	2945	2950	2955	2895	2910	2920
Slip [%]		1.94	1.83	1.67	1.50	3.50	3.00	2.67
Rated torque [kgfm]		3.08	2.46	2.46	2.46	3.76	3.74	3.73
Locked rotor torque [%]		220	200	229	250	170	190	210
Breakdown torque [%]		270	310	350	380	200	229	240
Service factor		1.25	1.25	1.25	1.25	1.00	1.00	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		37s (cold) 21s (hot)	52s (cold) 29s (hot)	48s (cold) 27s (hot)	45s (cold) 25s (hot)	27s (cold) 15s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)
Noise level²		72.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)
Efficiency (%)	25%							
	50%	89.5	90.3	90.1	89.9	89.5	90.2	90.2
	75%	91.0	90.5	90.7	90.8	90.2	90.2	91.0
	100%	91.0	90.5	90.7	90.8	89.5	90.2	90.2
Power Factor	25%							
	50%	0.77	0.73	0.69	0.67	0.82	0.80	0.78
	75%	0.85	0.83	0.80	0.78	0.88	0.86	0.86
	100%	0.88	0.87	0.85	0.84	0.90	0.89	0.88

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

Losses (%)	P1 (0,9;1,0)	9.4	10.0	9.8	9.6	11.2	10.3	10.3
	P2 (0,5;1,0)	7.6	8.0	7.9	7.8	9.0	8.3	8.3
	P3 (0,25;1,0)	6.9	7.4	7.2	7.1	8.2	7.6	7.6
	P4 (0,9;0,5)	4.8	5.1	4.9	4.9	5.7	5.2	5.2
	P5 (0,5;0,5)	2.8	3.0	2.9	2.9	3.4	3.1	3.1
	P6 (0,5;0,25)	1.8	1.9	1.8	1.8	2.1	2.0	2.0
	P7 (0,25;0,25)	1.1	1.2	1.2	1.1	1.3	1.2	1.2

		Drive end	Non drive end
Bearing type	:	6311 C3	6209 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	7000 h	11000 h
Lubricant amount	:	18 g	9 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 38.0A SF 1.15 SFA 43.7A

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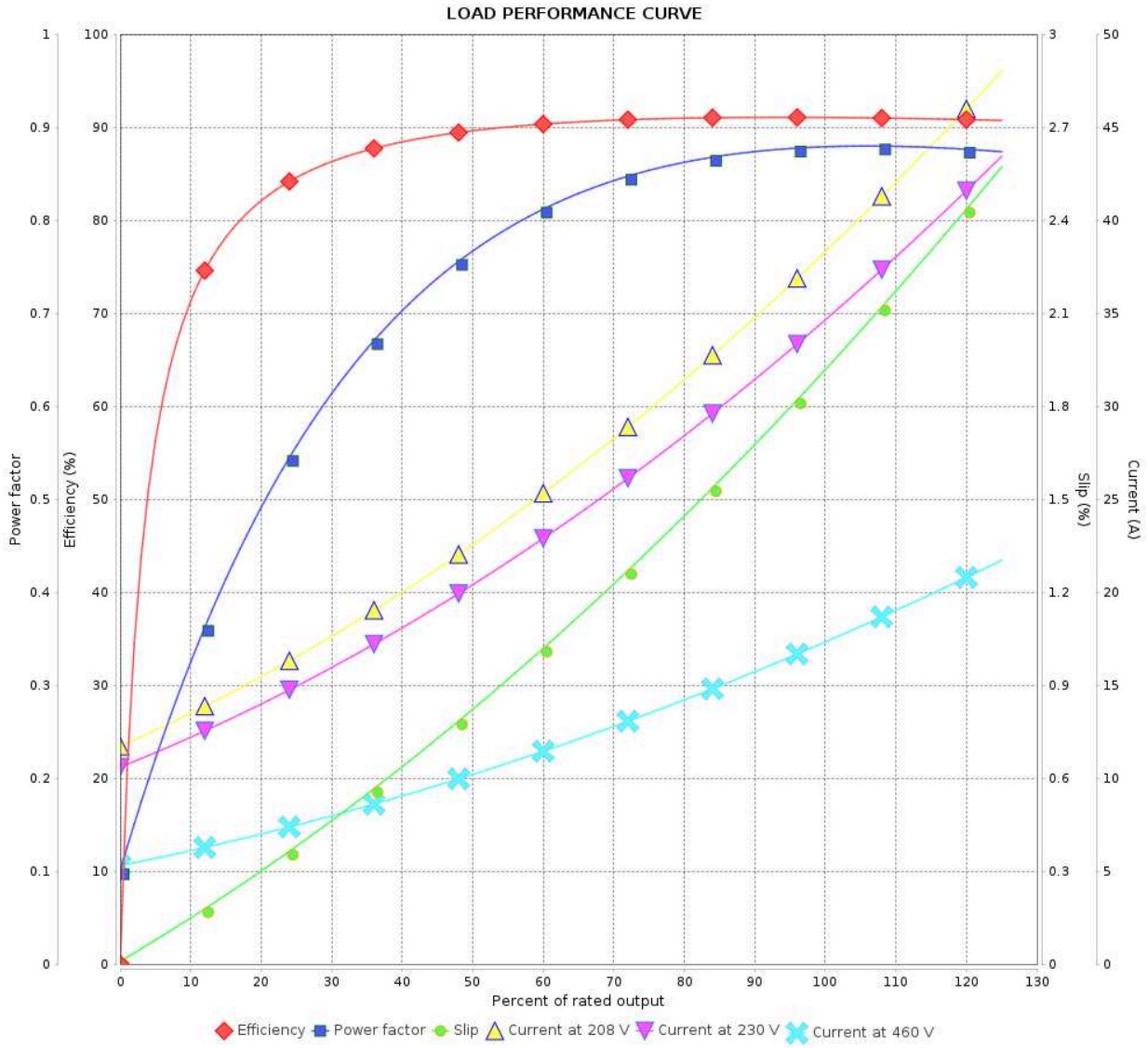
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Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 13016536



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 34.5/17.2 A	Moment of inertia (J)	: 0.0530 kgm²
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 3.08 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 3530 rpm	Design	: B

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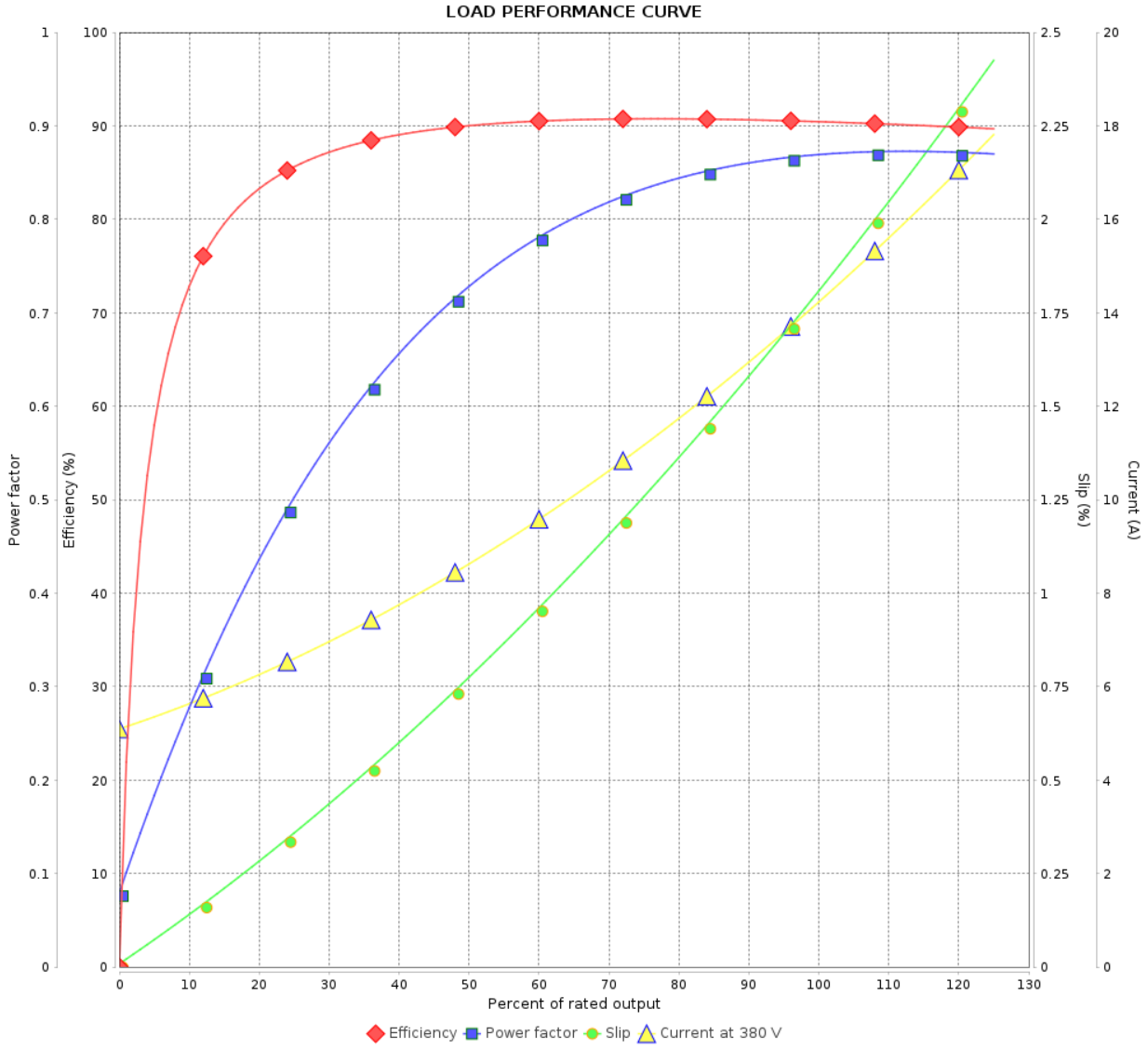
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Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 13016536



Performance	: 380 V 50 Hz 2P IE3		
Rated current	: 14.5 A	Moment of inertia (J)	: 0.0530 kgm²
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 2.46 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2945 rpm	Design	: B

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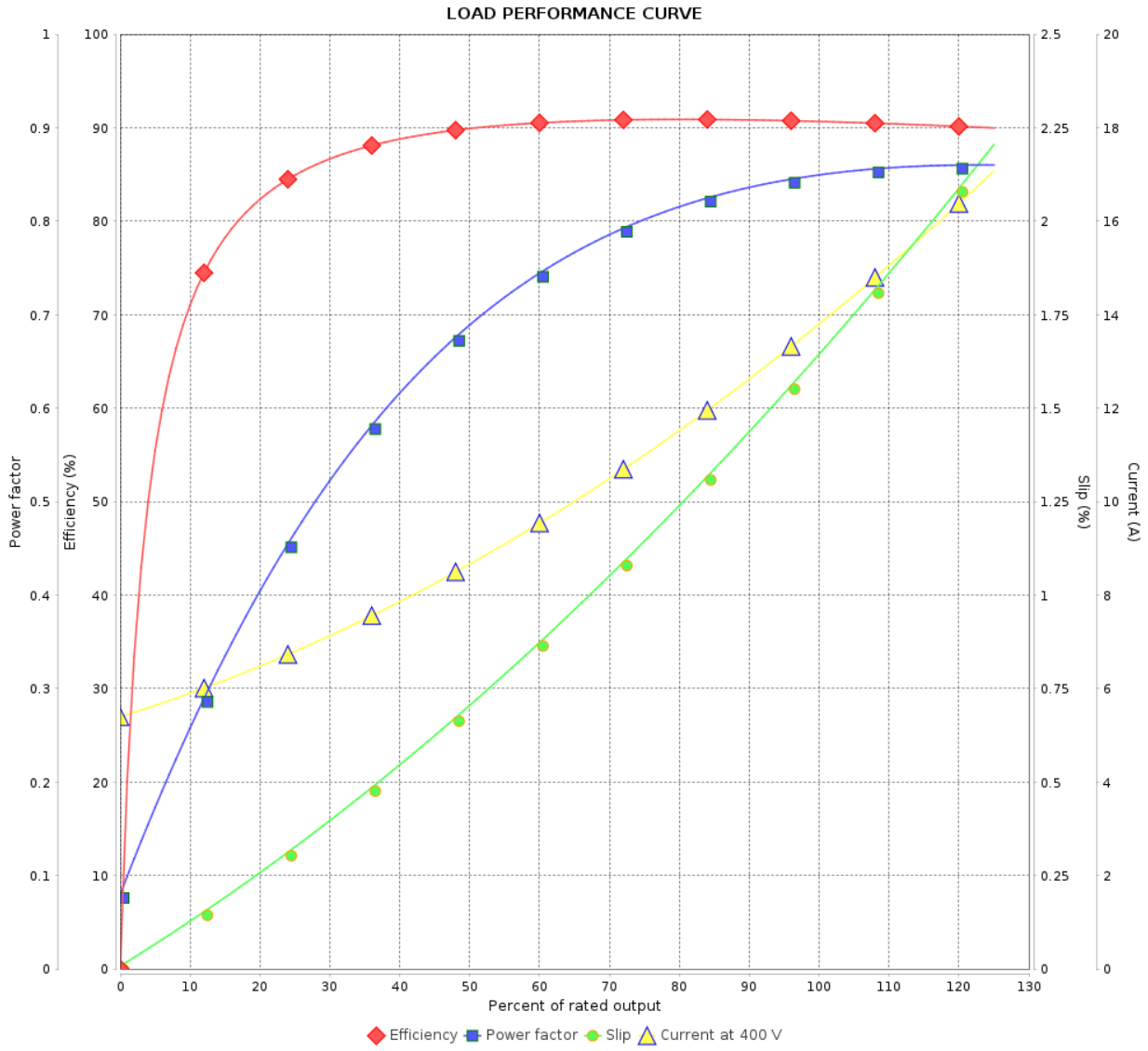
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 P Base NEMA Premium Efficiency Three-Phase	Product code :	13016536



Performance	: 400 V 50 Hz 2P IE3		
Rated current	: 14.0 A	Moment of inertia (J)	: 0.0530 kgm²
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 2.46 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 2950 rpm	Design	: B

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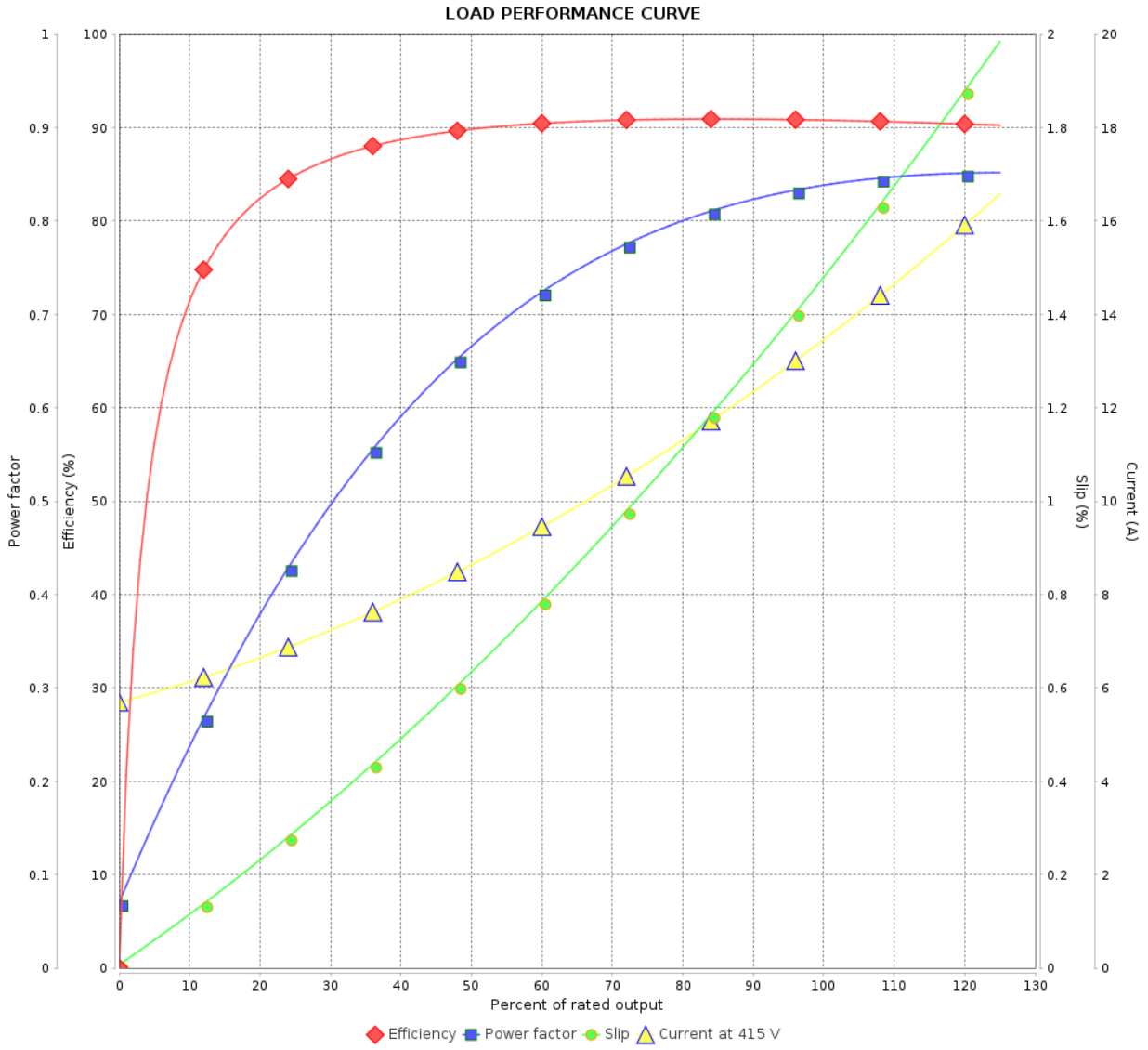
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 P Base NEMA Premium Efficiency Three-Phase	Product code :	13016536



Performance	: 415 V 50 Hz 2P IE3

Rated current	: 13.7 A	Moment of inertia (J)	: 0.0530 kgm²
LRC	: 7.9	Duty cycle	: Cont.(S1)
Rated torque	: 2.46 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: B

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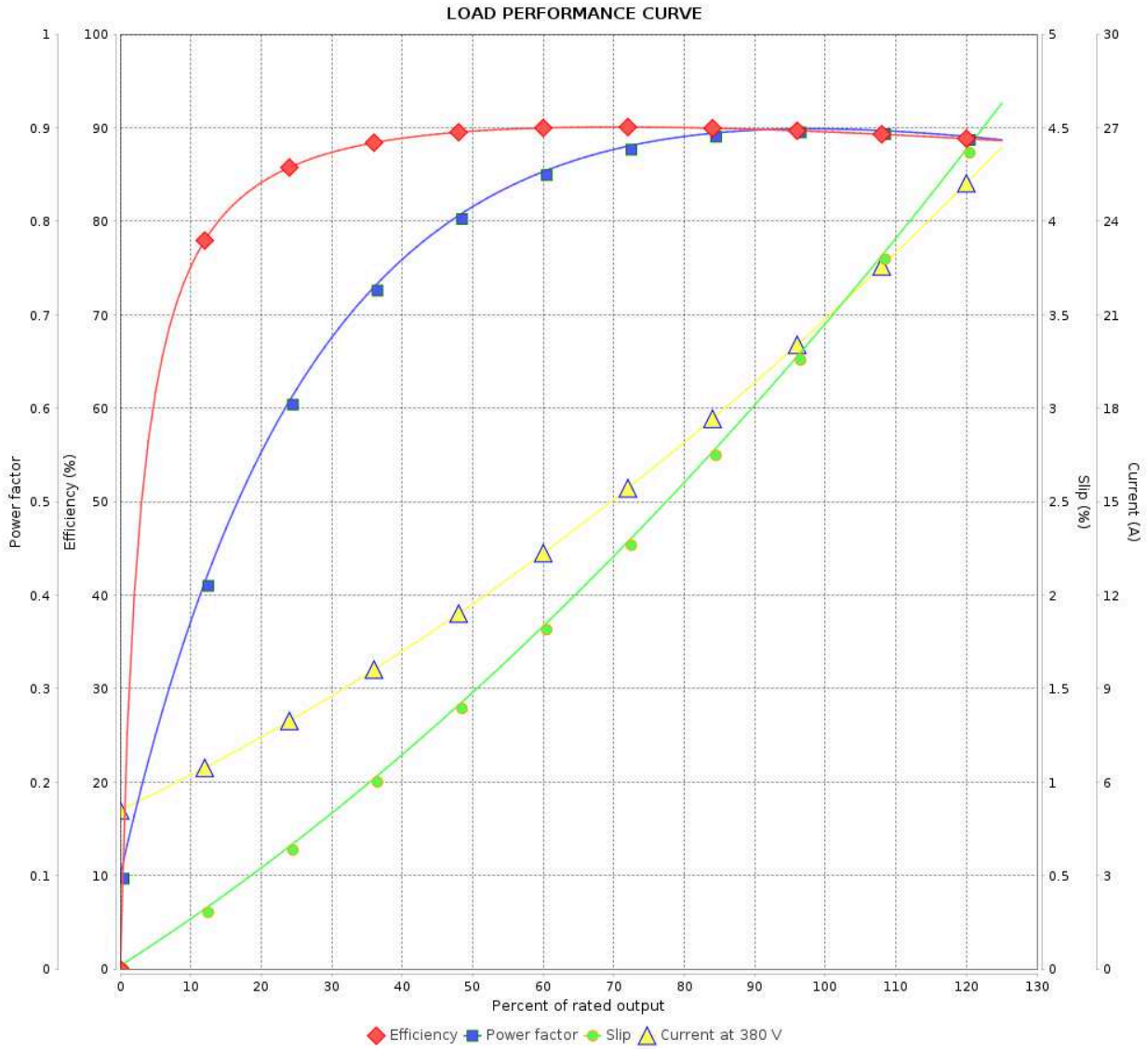
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Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 13016536



Performance	: 380 V 50 Hz 2P IE2		
Rated current	: 20.8 A	Moment of inertia (J)	: 0.0530 kgm²
LRC	: 4.9	Duty cycle	: Cont.(S1)
Rated torque	: 3.76 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 2895 rpm	Design	: B

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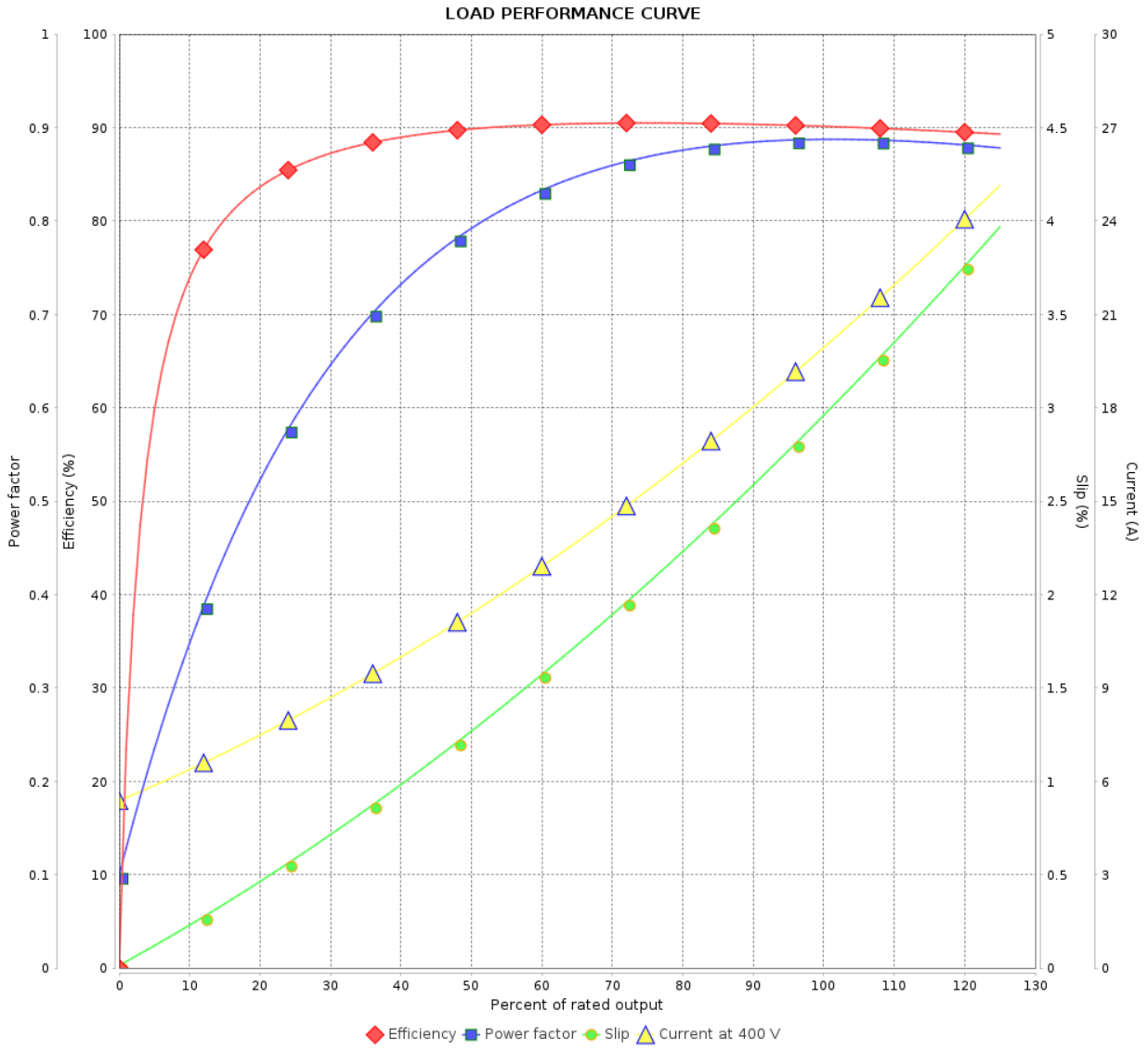
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 P Base NEMA Premium Efficiency Three-Phase	Product code :	13016536



Performance	: 400 V 50 Hz 2P IE2

Rated current	: 19.8 A	Moment of inertia (J)	: 0.0530 kgm²
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 3.74 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: B

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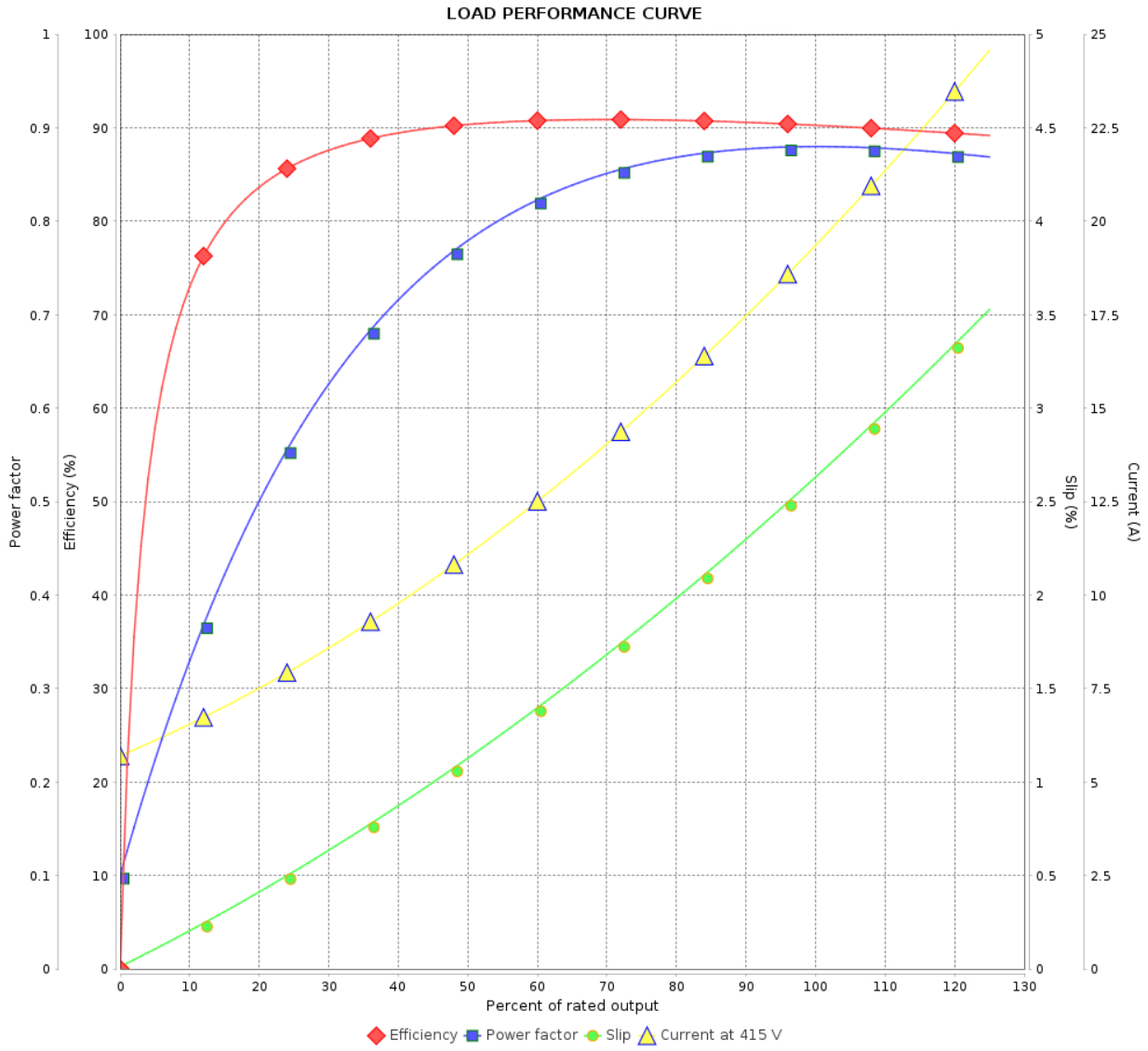
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Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 13016536

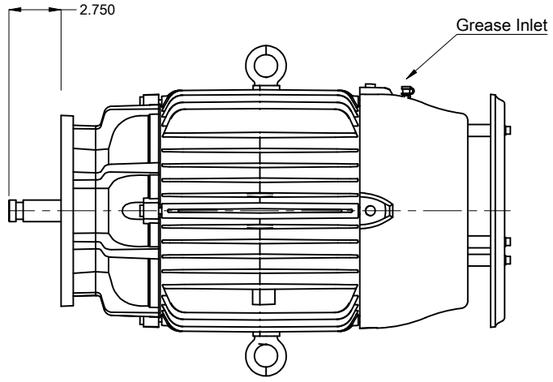


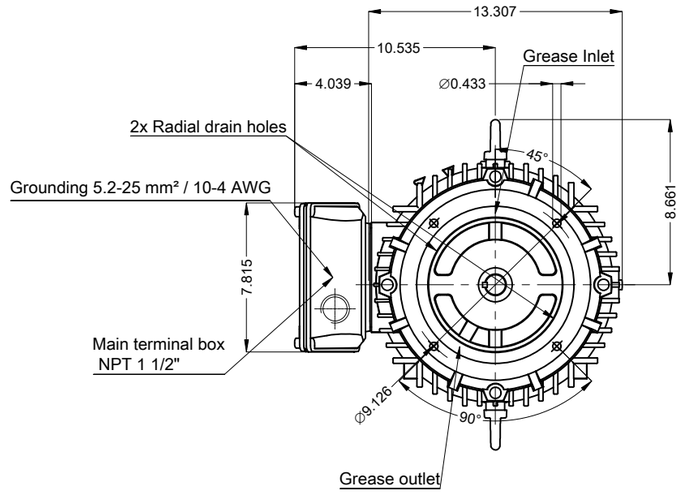
Performance	: 415 V 50 Hz 2P IE2		
Rated current	: 19.3 A	Moment of inertia (J)	: 0.0530 kgm²
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 3.73 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 2920 rpm	Design	: B

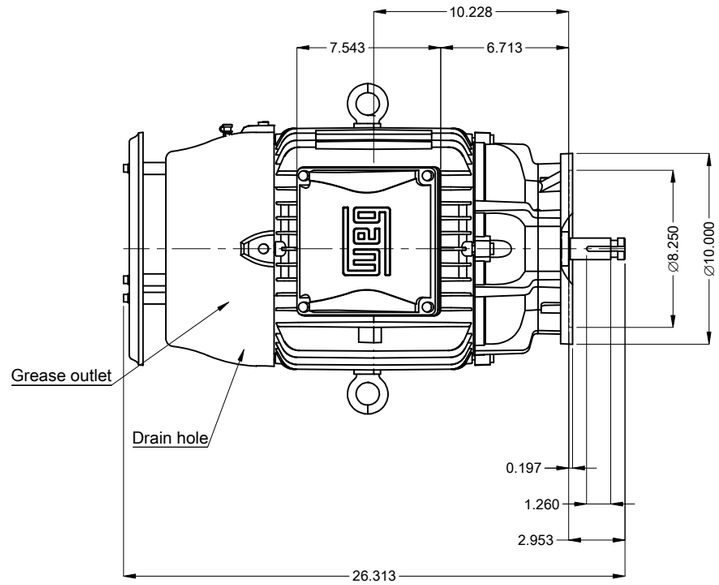
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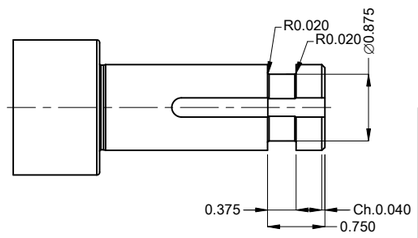
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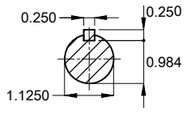








DE Shaft End



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

15 HP 02 Poles 60 Hz

A

Scale 1 : 8

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 254HP IP55 TEFC

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in inches

A3

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