DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 14168114

Frame	: 444/5HP	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	: 860 kg
Protection degree	: IP55	Moment of inertia (J)	: 2.81 kgm²
Design	: B		

Output [HP]		150	125	125	125	150	150	150
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]		340/170	169	160	156	205	194	189
L. R. Amperes [A]		2244/1122	1183	1104	1170	1189	1125	1191
LRC [A]		6.6x(Code G)	7.0x(Code G)	6.9x(Code G)	7.5x(Code H)	5.8x(Code F)	5.8x(Code F)	6.3x(Code G)
No load current [A]		116/58.0	58.0	61.2	64.0	58.0	61.2	64.0
Rated speed [RPM]		1784	1484	1486	1487	1475	1480	1482
Slip [%]		0.89	1.07	0.93	0.87	1.67	1.33	1.20
Rated torque [kgfm]		61.0	61.1	61.0	61.0	73.8	73.6	73.5
Locked rotor torque [%]		200	190	220	229	160	180	190
Breakdown torque [%]		250	240	260	290	200	220	240
Service factor		1.15	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		48s (cold) 27s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)
Noise level²		73.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)
Efficiency (%)	25%							
	50%	95.4	95.1	95.1	94.8	95.4	95.4	95.4
	75%	95.8	95.5	95.5	95.5	95.4	95.4	95.4
	100%	95.8	95.3	95.3	95.5	95.0	95.0	95.4
Power Factor	25%							
	50%	0.74	0.73	0.70	0.68	0.79	0.76	0.74
	75%	0.82	0.83	0.81	0.79	0.85	0.83	0.82
	100%	0.85	0.85	0.85	0.84	0.86	0.86	0.85

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

Losses (%)	P1 (0,9;1,0)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	P2 (0,5;1,0)	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	P3 (0,25;1,0)	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	P4 (0,9;0,5)	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	P5 (0,5;0,5)	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	P6 (0,5;0,25)	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6	0.6	0.6	0.6

		Drive end	Non drive end
Bearing type	:	6319 C3	6316 C3
Sealing	:	Viton Lip Seal	Viton Seal
Lubrication interval	:	4000 h	5000 h
Lubricant amount	:	45 g	34 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction

Max. compression

Rev.	Changes Summary	Performed	Checked	Date

Performed by			
Checked by		Page	Revision
Date	27/10/2024	1 / 9	

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Notes
USABLE @208V 376A SF 1.00 SFA 376A

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.

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	27/10/2024		2 / 9	

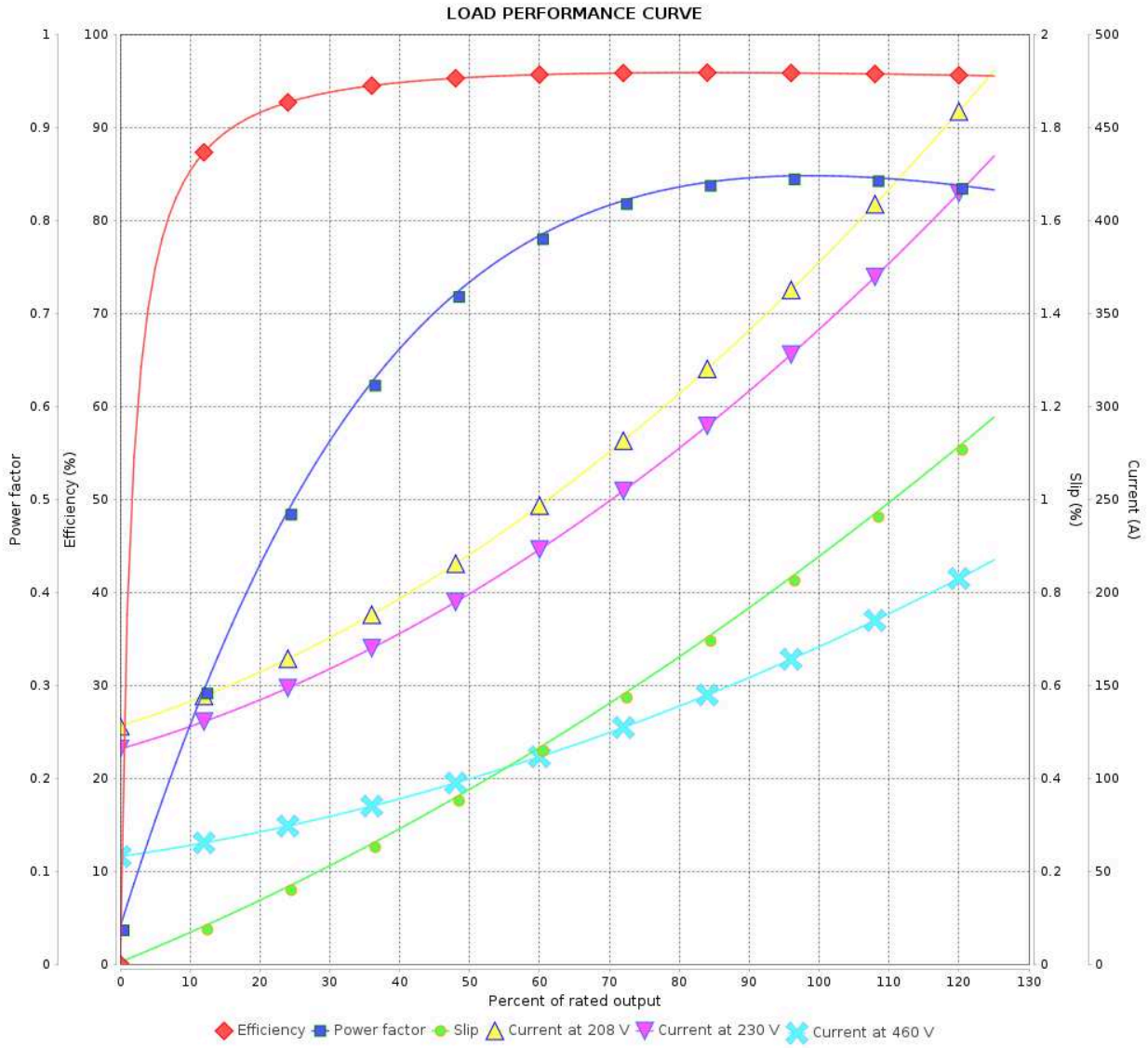
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 P Base NEMA Premium Efficiency Three-Phase	Product code :	14168114



Performance	: 230/460 V 60 Hz 4P

Rated current	: 340/170 A	Moment of inertia (J)	: 2.81 kgm²
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 61.0 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1784 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	27/10/2024		3 / 9	

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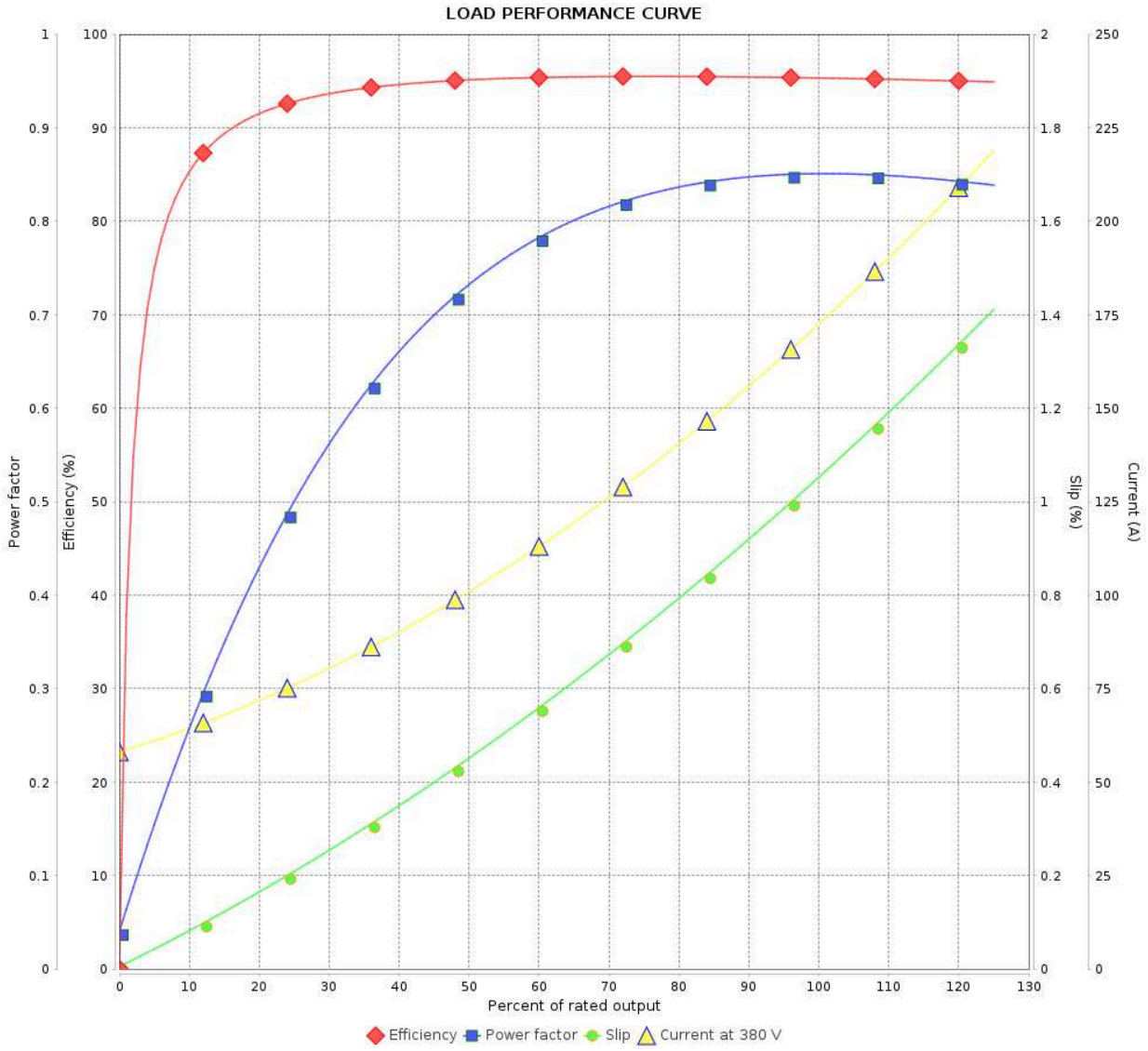
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Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 14168114



Performance	: 380 V 50 Hz 4P IE3		
Rated current	: 169 A	Moment of inertia (J)	: 2.81 kgm²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 61.1 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1484 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	27/10/2024		4 / 9	

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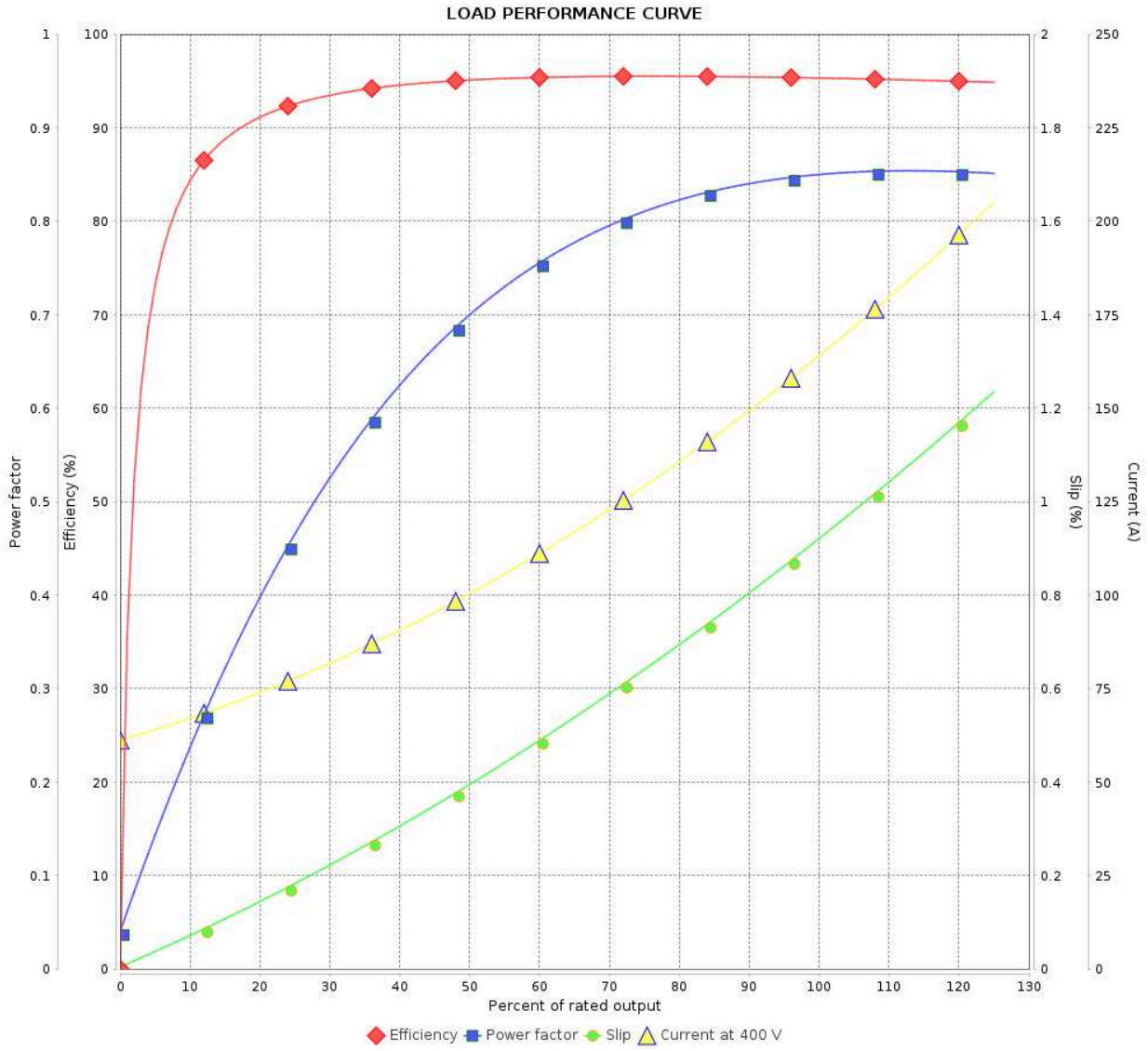
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Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 14168114



Performance	: 400 V 50 Hz 4P IE3		
Rated current	: 160 A	Moment of inertia (J)	: 2.81 kgm²
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 61.0 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1486 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	27/10/2024		5 / 9	

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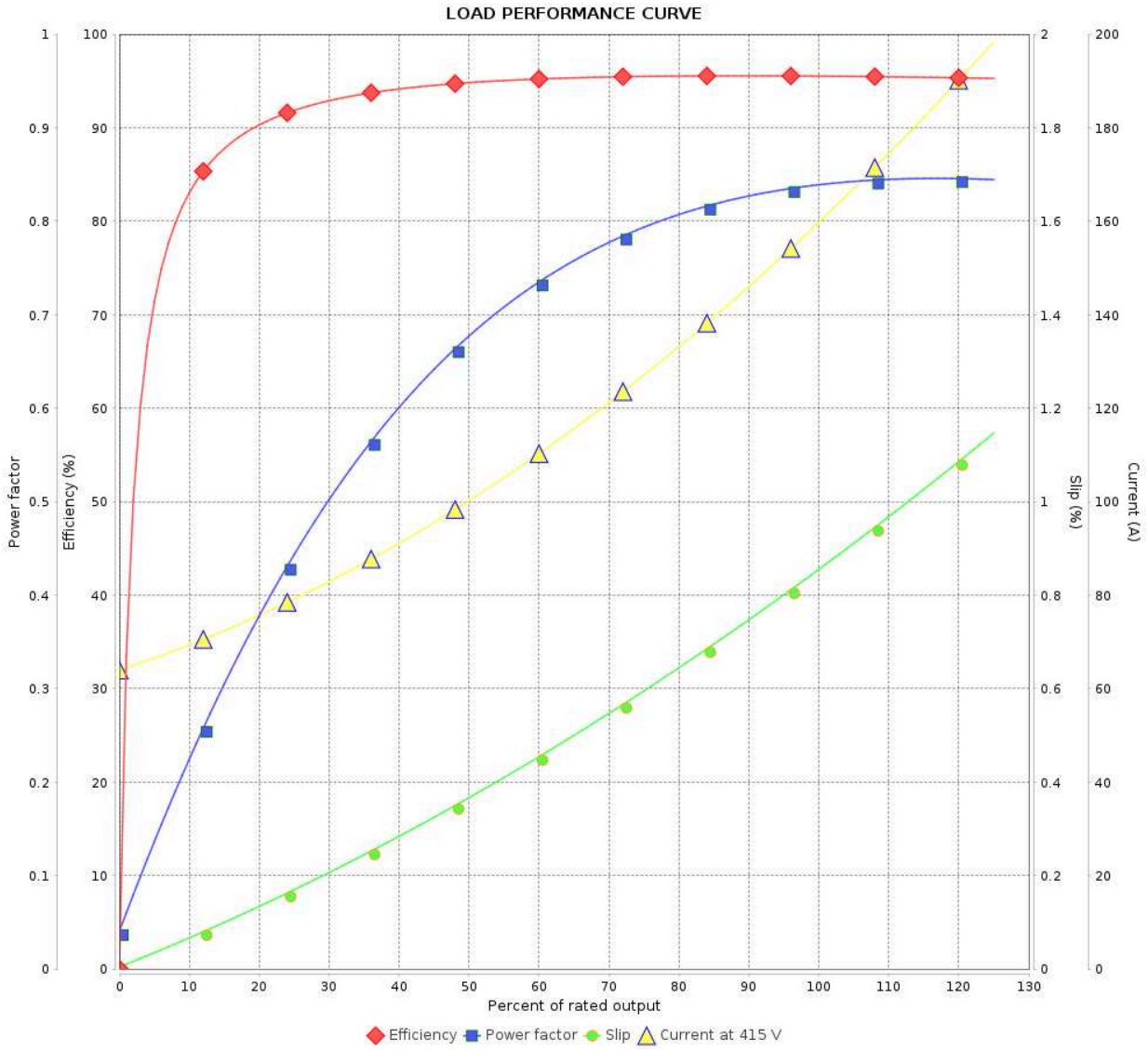
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Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 14168114



Performance	: 415 V 50 Hz 4P IE3		
Rated current	: 156 A	Moment of inertia (J)	: 2.81 kgm²
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 61.0 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1487 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	27/10/2024		6 / 9	

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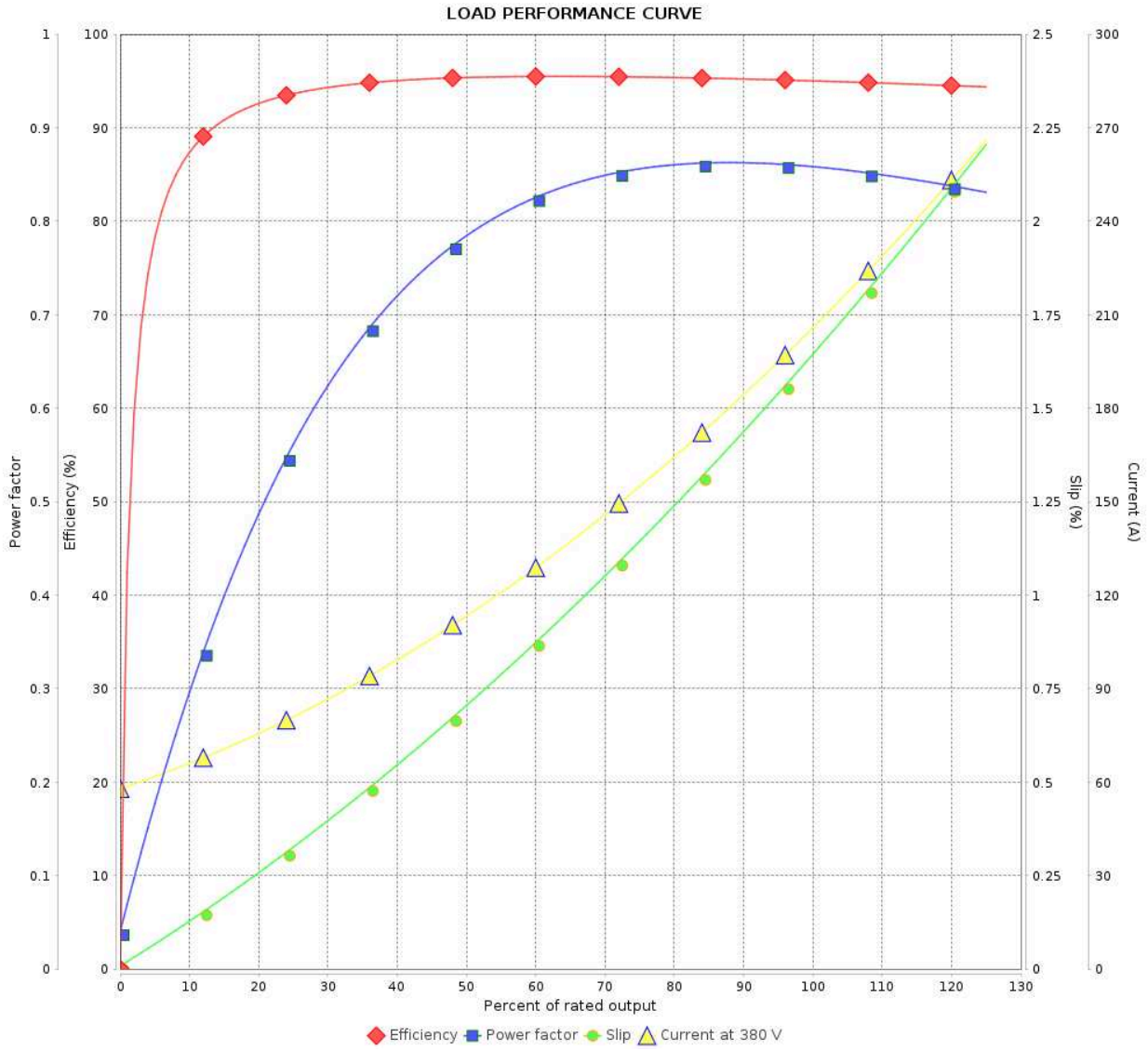
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Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 14168114



Performance	: 380 V 50 Hz 4P IE2		
Rated current	: 205 A	Moment of inertia (J)	: 2.81 kgm²
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 73.8 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 1475 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	27/10/2024		7 / 9	

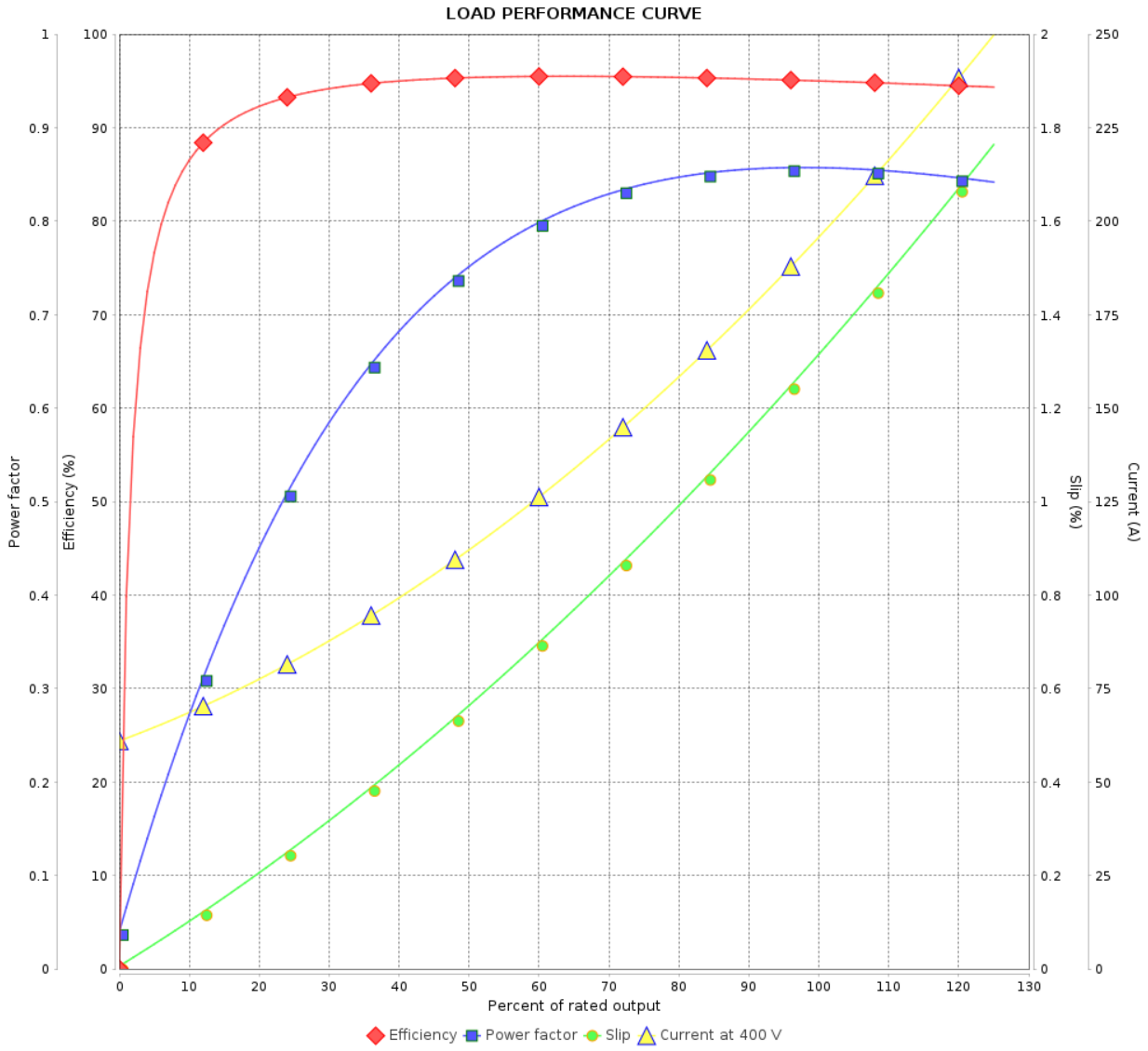
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 P Base NEMA Premium Efficiency Three-Phase	Product code :	14168114



Performance	: 400 V 50 Hz 4P IE2

Rated current	: 194 A	Moment of inertia (J)	: 2.81 kgm²
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 73.6 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 1480 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	27/10/2024		8 / 9	

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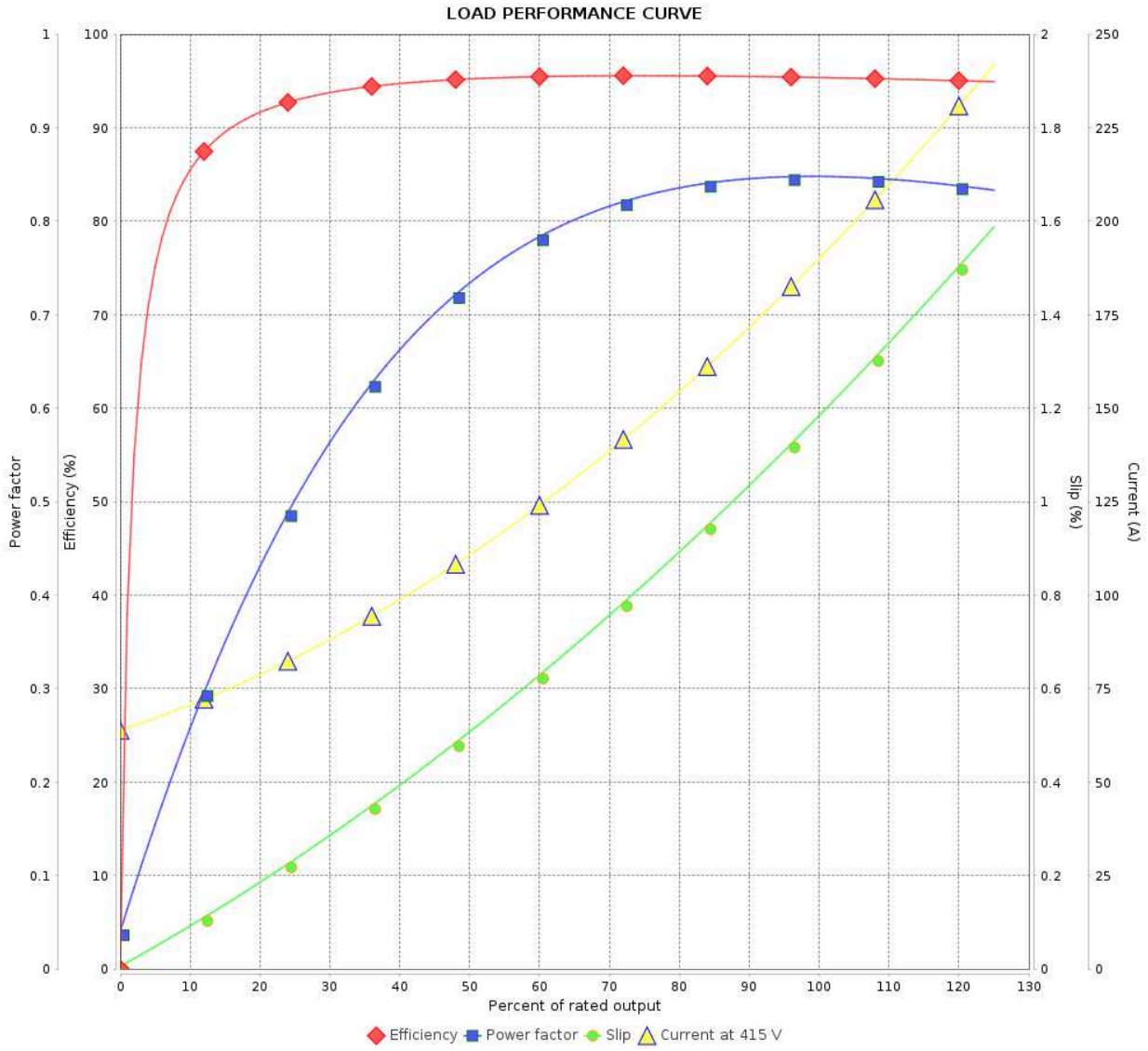
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Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 14168114

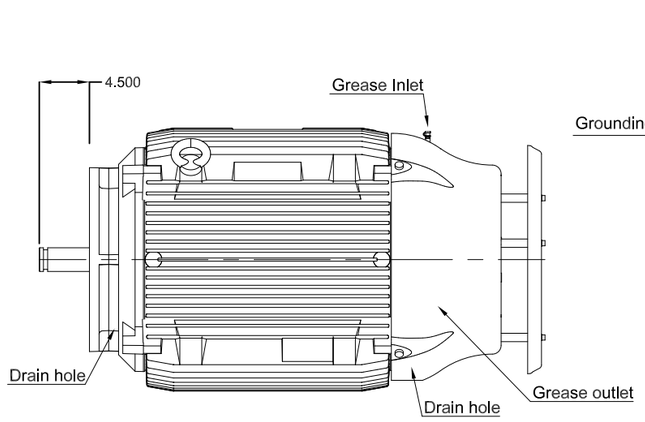


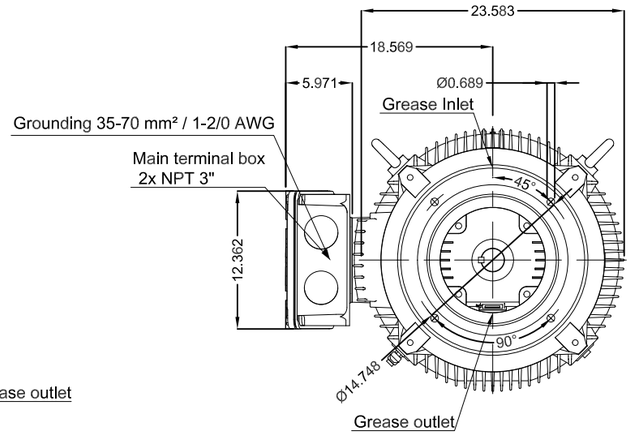
Performance	: 415 V 50 Hz 4P IE3		
Rated current	: 189 A	Moment of inertia (J)	: 2.81 kgm²
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 73.5 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 1482 rpm	Design	: B

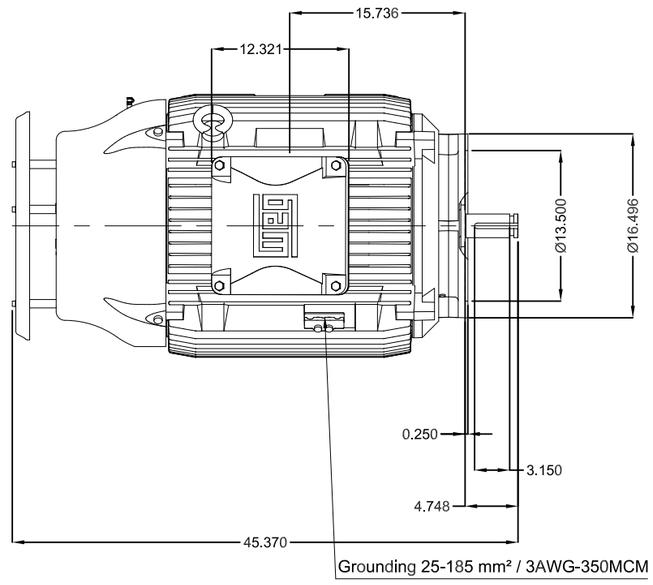
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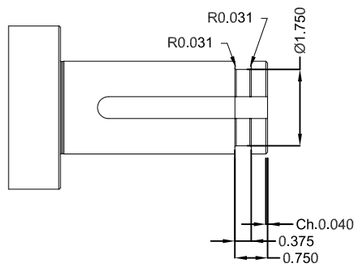
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Checked by			Page	Revision
Date	27/10/2024		9 / 9	

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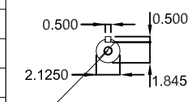








DE Shaft End



DUNC 5/8"-11 WEG WPR-7339

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

150 HP 04 Poles 60 Hz — A

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 444/5HP IP55 TEFC

PREVIEW
WDD 00
SHEET /

Dimensions in inches

A3

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