

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :		
Product line	: NEMA Premium Efficiency Three-Phase	
Product code :	12651247	
Frame	: 213/5TC	
Insulation class	: F	
Duty cycle	: Cont.(S1)	
Ambient temperature	: -20°C to +40°C	
Altitude	: 1000 m.a.s.l.	
Protection degree	: IP55	
Design	: B	
Cooling method	: IC411 - TEFC	
Mounting	: F-1	
Rotation ¹	: Both (CW and CCW)	
Starting method	: Direct On Line	
Approx. weight ²	: 64.8 kg	
Moment of inertia (J)	: 0.0451 kgm ²	
Output [HP]	10	
Poles	4	
Frequency [Hz]	60	
Rated voltage [V]	230/460	
Rated current [A]	24.4/12.2	
L. R. Amperes [A]	171/85.4	
LRC [A]	7.0x(Code H)	
No load current [A]	11.1/5.54	
Rated speed [RPM]	1760	
Slip [%]	2.22	
Rated torque [kgfm]	4.12	
Locked rotor torque [%]	250	
Breakdown torque [%]	300	
Service factor	1.15	
Temperature rise	80 K	
Locked rotor time	27s (cold) 15s (hot)	
Noise level ²	60.0 dB(A)	
Efficiency (%)	25%	90.2
	50%	91.0
	75%	91.0
	100%	91.7
Power Factor	25%	0.41
	50%	0.67
	75%	0.78
	100%	0.84
Bearing type	: <u>Drive end</u> 6208 ZZ <u>Non drive end</u> 6206 ZZ	
Sealing	: V'Ring Without Bearing Seal	
Lubrication interval	: -	
Lubricant amount	: -	
Lubricant type	: Mobil Polyrex EM	
Foundation loads	Max. traction : 214 kgf	
	Max. compression : 279 kgf	
Notes USABLE @208V 27.0A SF 1.00 SFA 27.0A		
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 by	Performed	
Checked by	Checked	
Date	13/05/2022	
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Revision		

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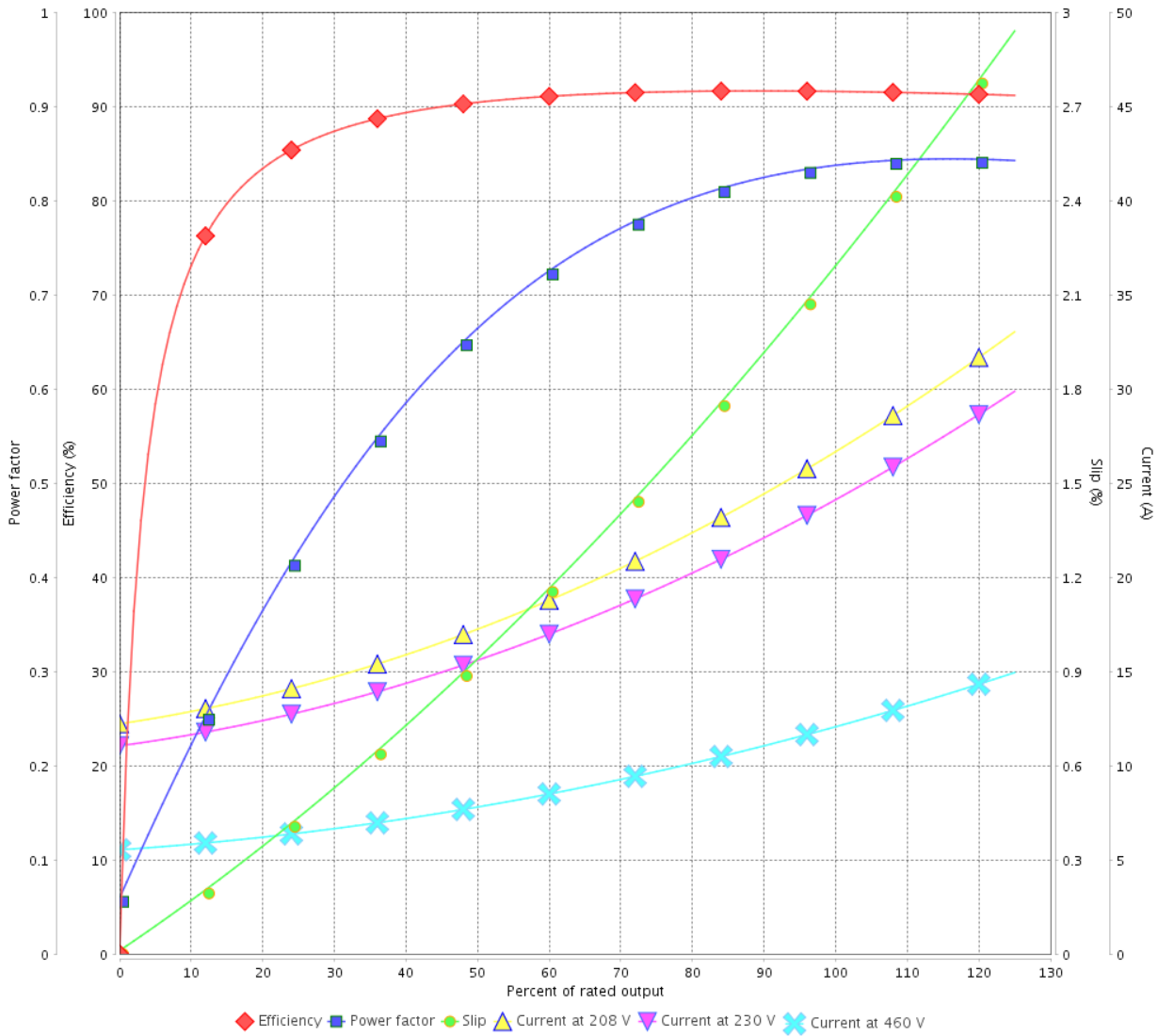
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12651247

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Performance : 230/460 V 60 Hz 4P

Rated current : 24.4/12.2 A
 LRC : 7.0
 Rated torque : 4.12 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 300 %
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0451 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
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Date				

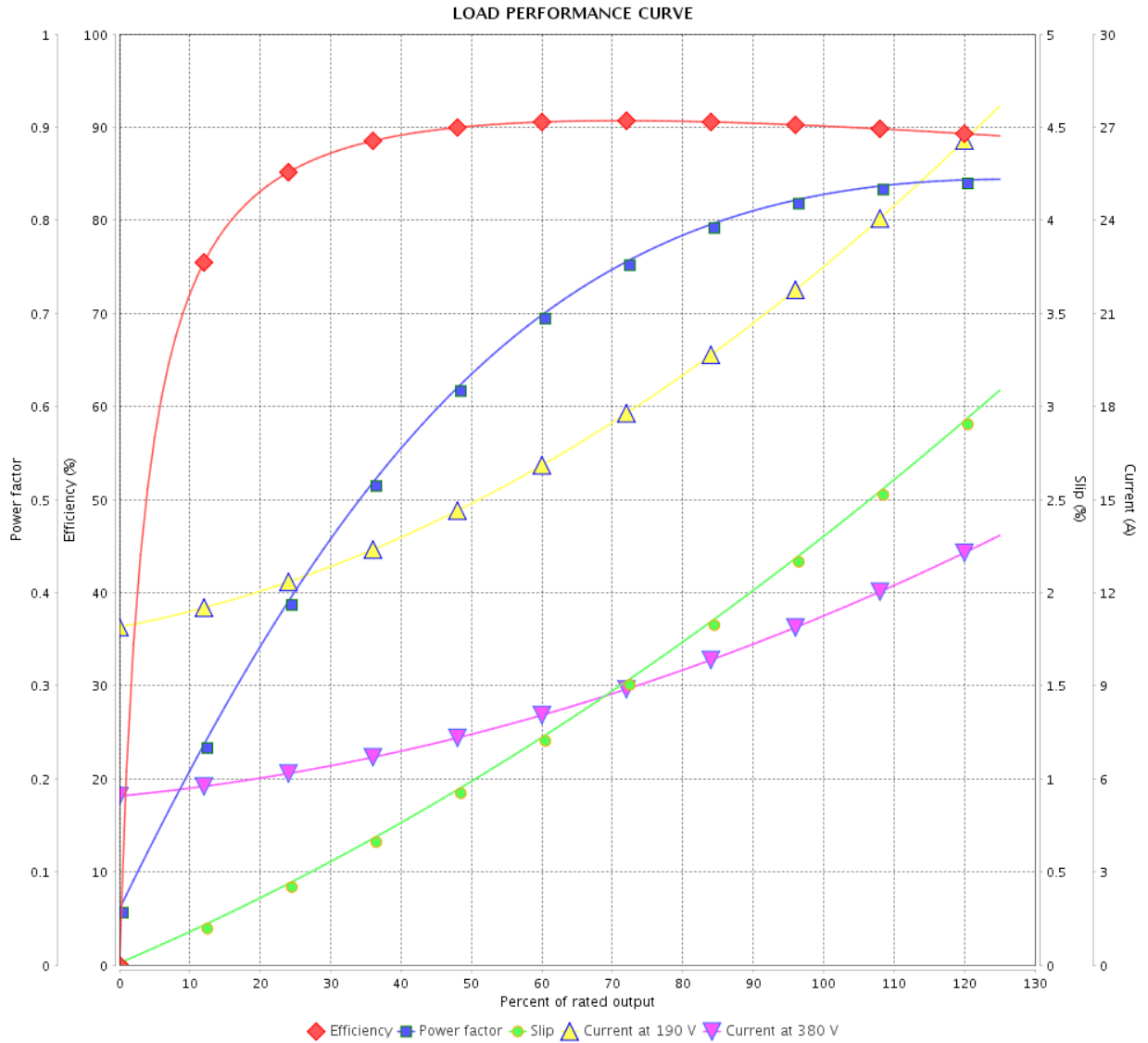
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : NEMA Premium Efficiency Three-Phase Product code : 12651247



Performance : 190/380 V 50 Hz 4P

Rated current : 22.4/11.2 A
 LRC : 7.6
 Rated torque : 3.72 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 320 %
 Rated speed : 1465 rpm

Moment of inertia (J) : 0.0451 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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Performed by			Page	Revision
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Date				

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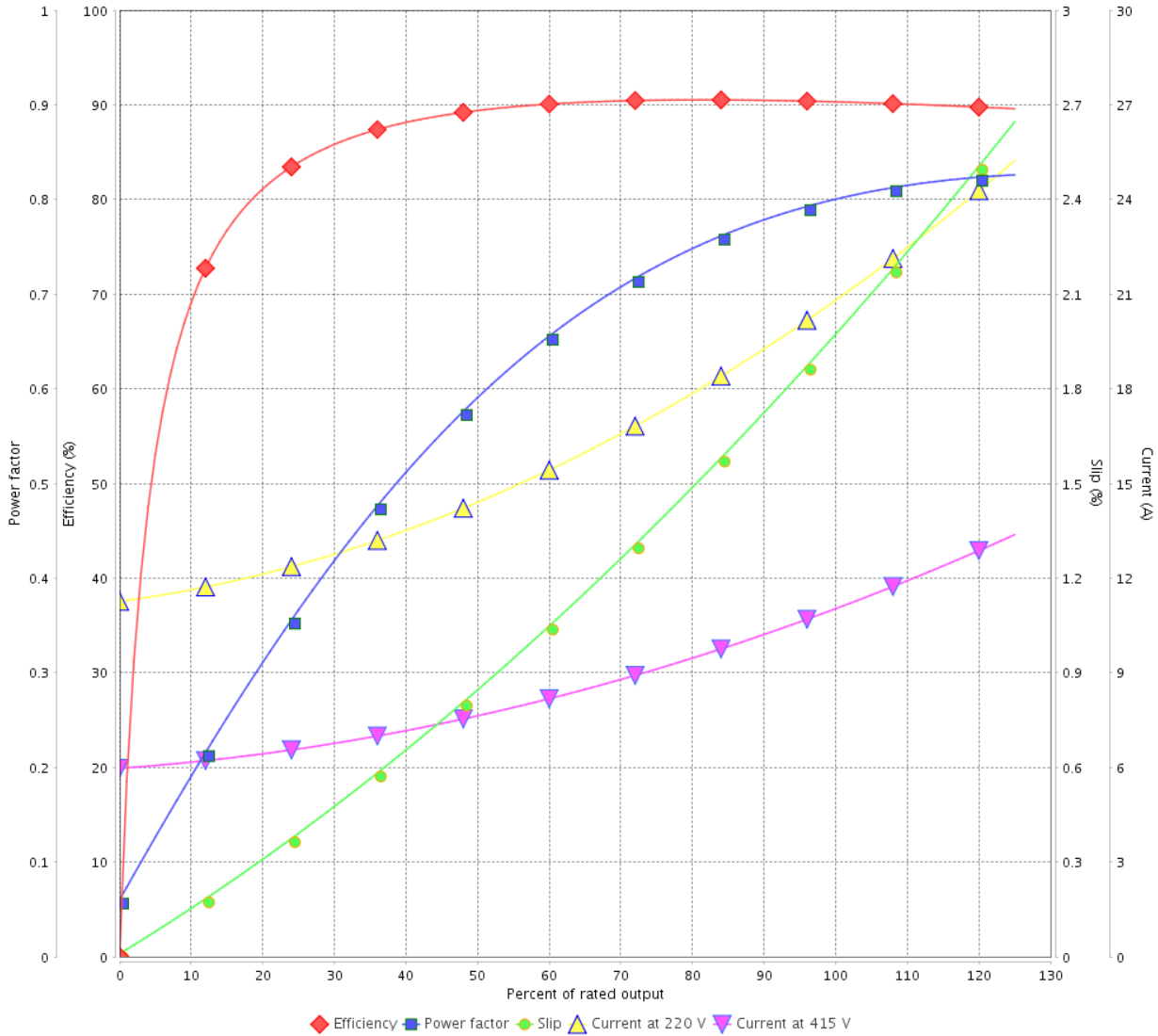
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase Product code : 12651247

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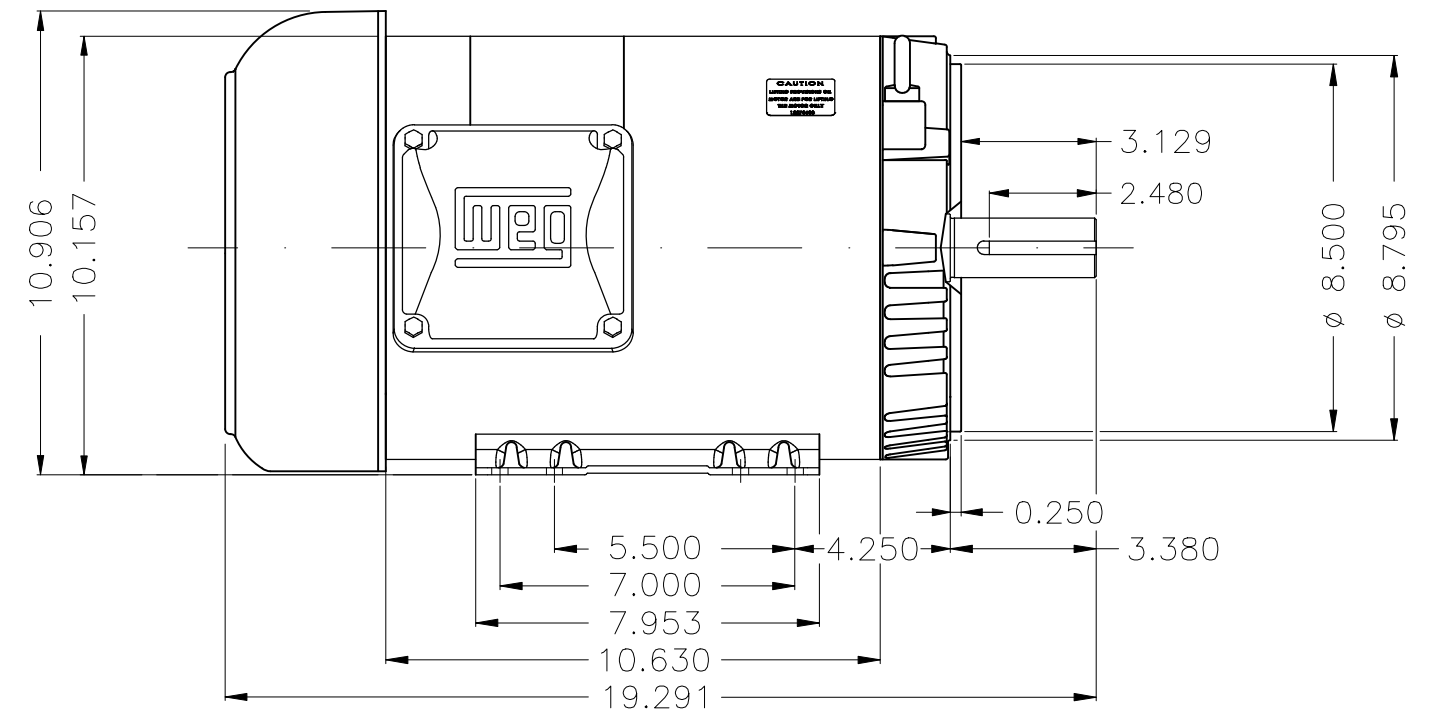
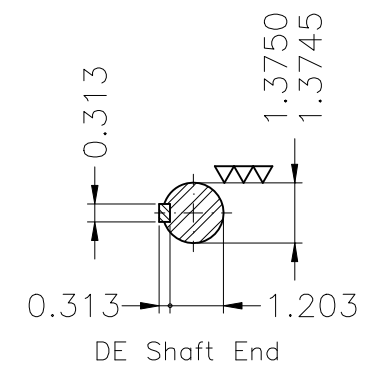
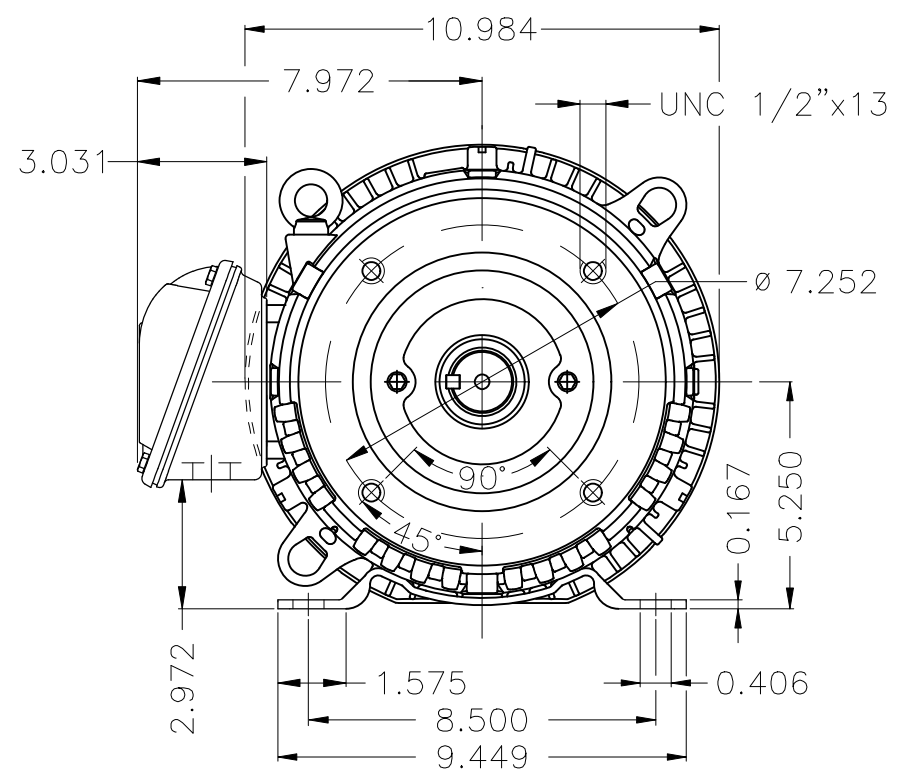
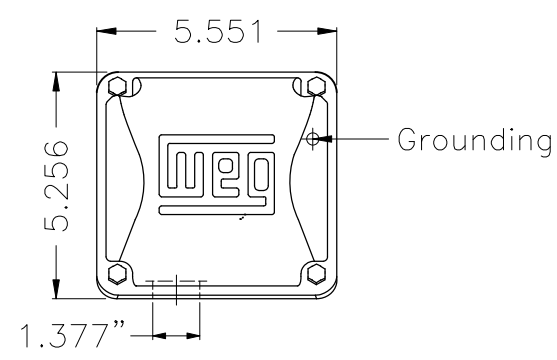
Performance : 220/415 V 50 Hz 4P

Rated current	: 20.8/11.0 A	Moment of inertia (J)	: 0.0451 kgm ²
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 3.70 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.15
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B


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1 2 3 4 5 6

A
B
C
D
E



10 HP 04 Poles 60 Hz

Color Munsell N 1 matte black											
Painting plan 207N											
Mounting B34D											
HYBRISUSER											
ECM	LOC	SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL NEMA PREM. EFF.					EXECUTED	CHECKED	RELEASED	DATE	00
CHECKED		FRAME 213/5TC IP55 TEFC					EXECUTED	CHECKED	RELEASED	DATE	00
RELEASED							EXECUTED	CHECKED	RELEASED	DATE	00
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET		1 / 1				

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Dimensions in inches XME A3