

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line		: Premium Efficiency Three-Phase		Product code : 13484359	
Frame	: 56C	Cooling method	: IC411 - TEFC		
Insulation class	: F	Mounting	: F-1		
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 18.6 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0055 kgm ²		
Design	: B				
Output [HP]	2	2	2		
Poles	4	4	4		
Frequency [Hz]	60	50	50		
Rated voltage [V]	230/460	190-220/380	415		
Rated current [A]	5.44/2.72	6.50-5.61/3.25	3.07		
L. R. Amperes [A]	44.6/22.3	39.0-33.7/19.5	21.8		
LRC [A]	8.2x(Code K)	6.0x(Code H)	7.1x(Code J)		
No load current [A]	2.80/1.40	2.75-2.37/1.37	1.64		
Rated speed [RPM]	1745	1415	1435		
Slip [%]	3.06	5.67	4.33		
Rated torque [kgfm]	0.832	1.03	1.01		
Locked rotor torque [%]	270	210	270		
Breakdown torque [%]	300	240	300		
Service factor		1.15	1.15		
Temperature rise	80 K	80 K	80 K		
Locked rotor time	27s (cold) 15s (hot)	25s (cold) 14s (hot)	21s (cold) 12s (hot)		
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)		
Efficiency (%)	25%				
	50%	85.5	85.4	84.2	
	75%	87.5	84.9	85.1	
	100%	86.5	82.6	84.0	
Power Factor	25%				
	50%	0.60	0.68	0.60	
	75%	0.73	0.80	0.73	
	100%	0.80	0.85	0.81	
Bearing type	: Drive end 6204 ZZ	Non drive end 6202 ZZ	Foundation loads		
Sealing	: V'Ring	Without Bearing Seal	Max. traction	: 88 kgf	
			Max. compression	: 107 kgf	
Lubrication interval	: -	-			
Lubricant amount	: -	-			
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V 6.02A SF 1.00 SFA 6.02A					
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					
Date	11/05/2022			Page	Revision
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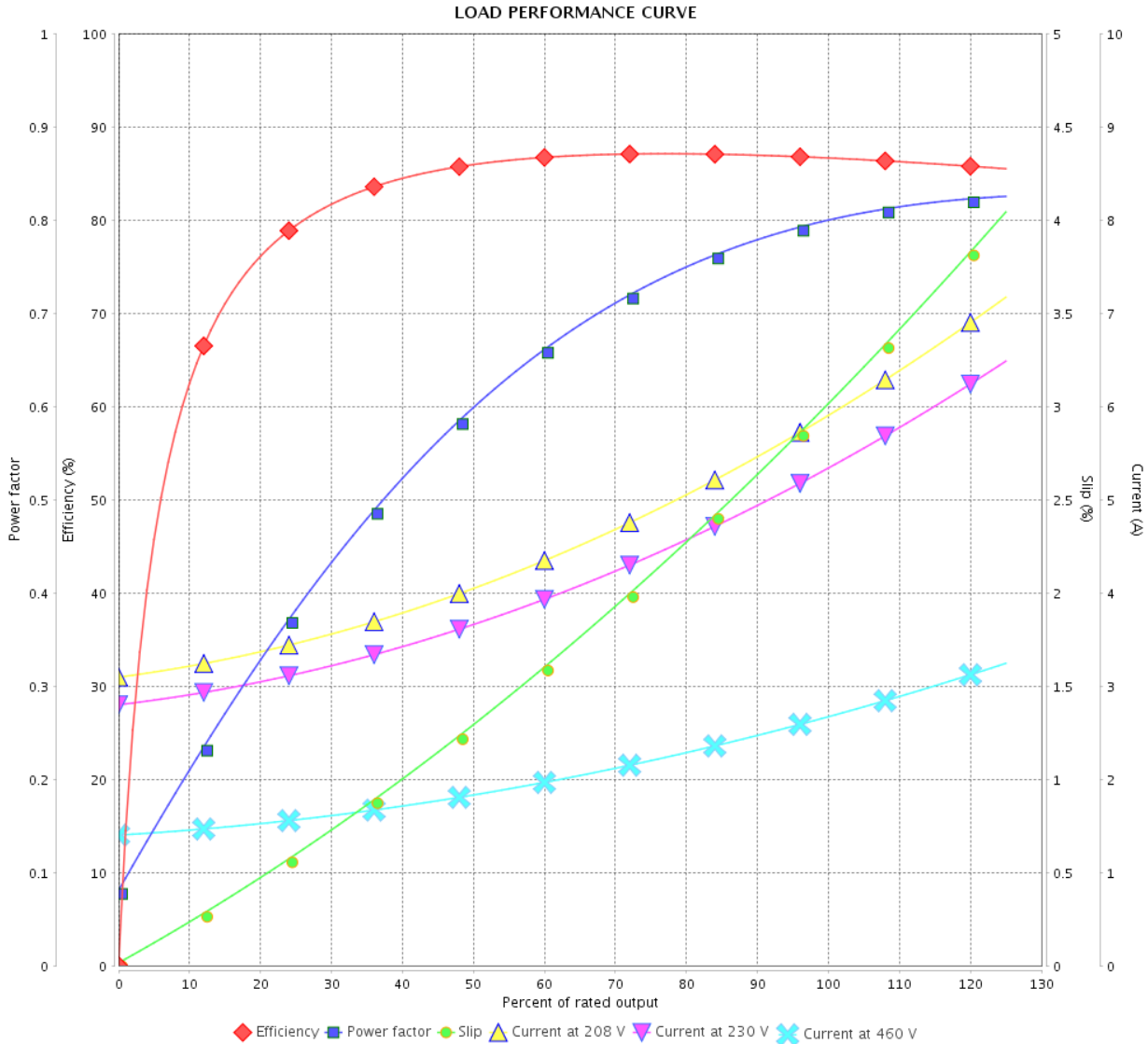
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13484359



Performance : 230/460 V 60 Hz 4P

Rated current : 5.44/2.72 A
 LRC : 8.2
 Rated torque : 0.832 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Rated speed : 1745 rpm

Moment of inertia (J) : 0.0055 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

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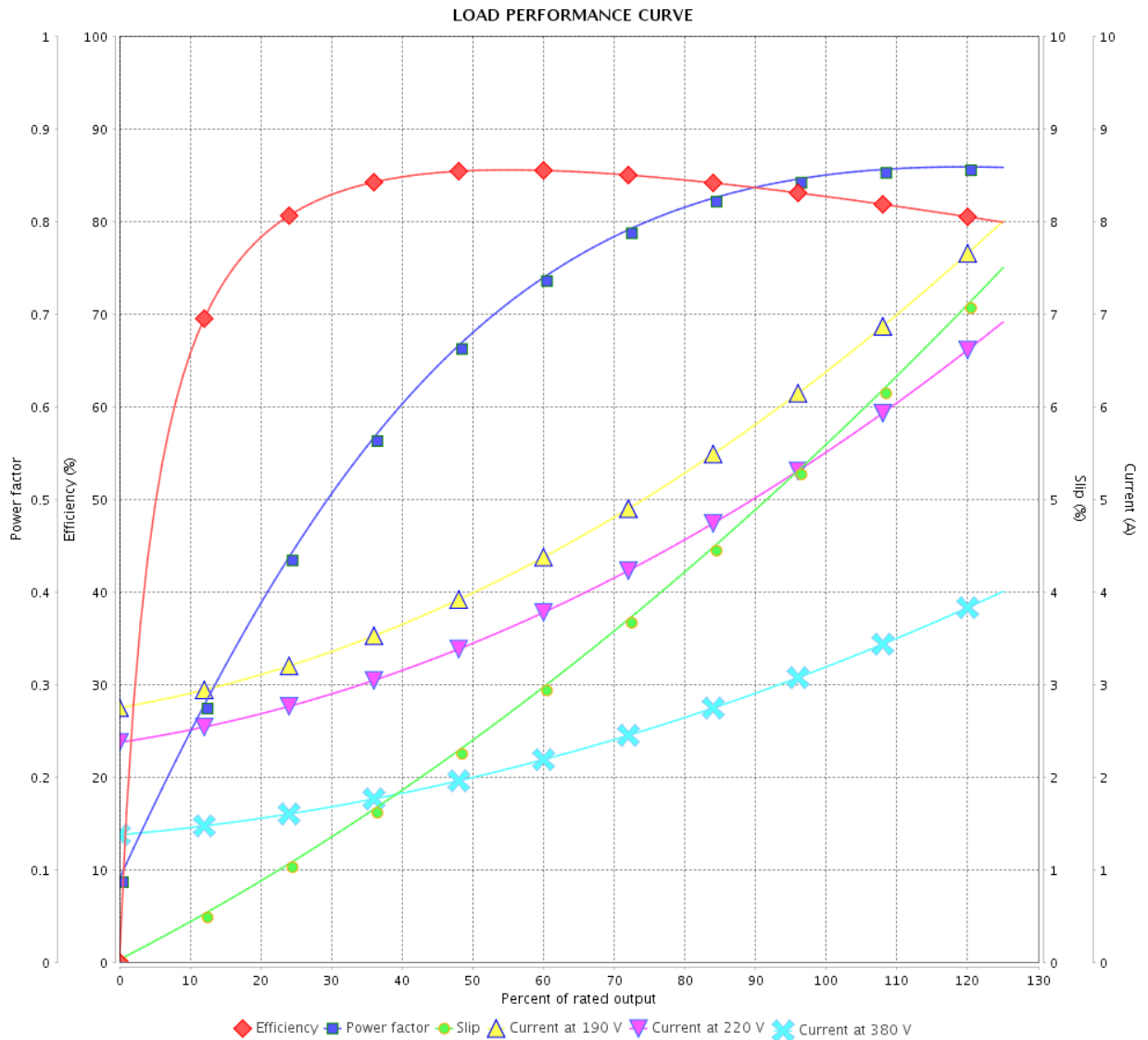
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Premium Efficiency Three-Phase Product code : 13484359



Performance : 190-220/380 V 50 Hz 4P

Rated current : 6.50-5.61/3.25 A
 LRC : 6.0
 Rated torque : 1.03 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 240 %
 Rated speed : 1415 rpm

Moment of inertia (J) : 0.0055 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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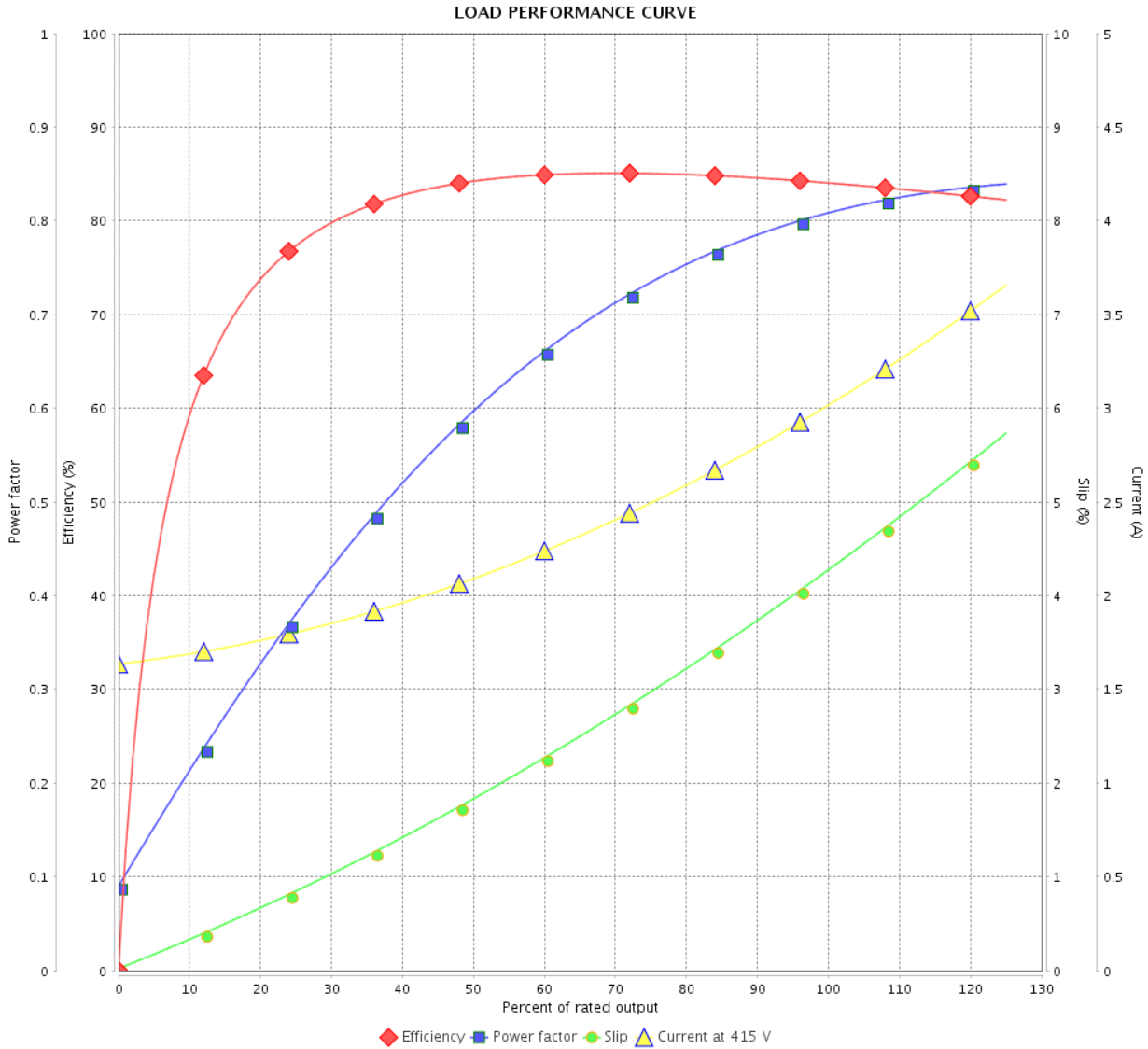
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13484359

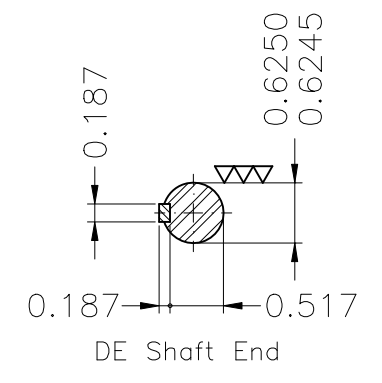
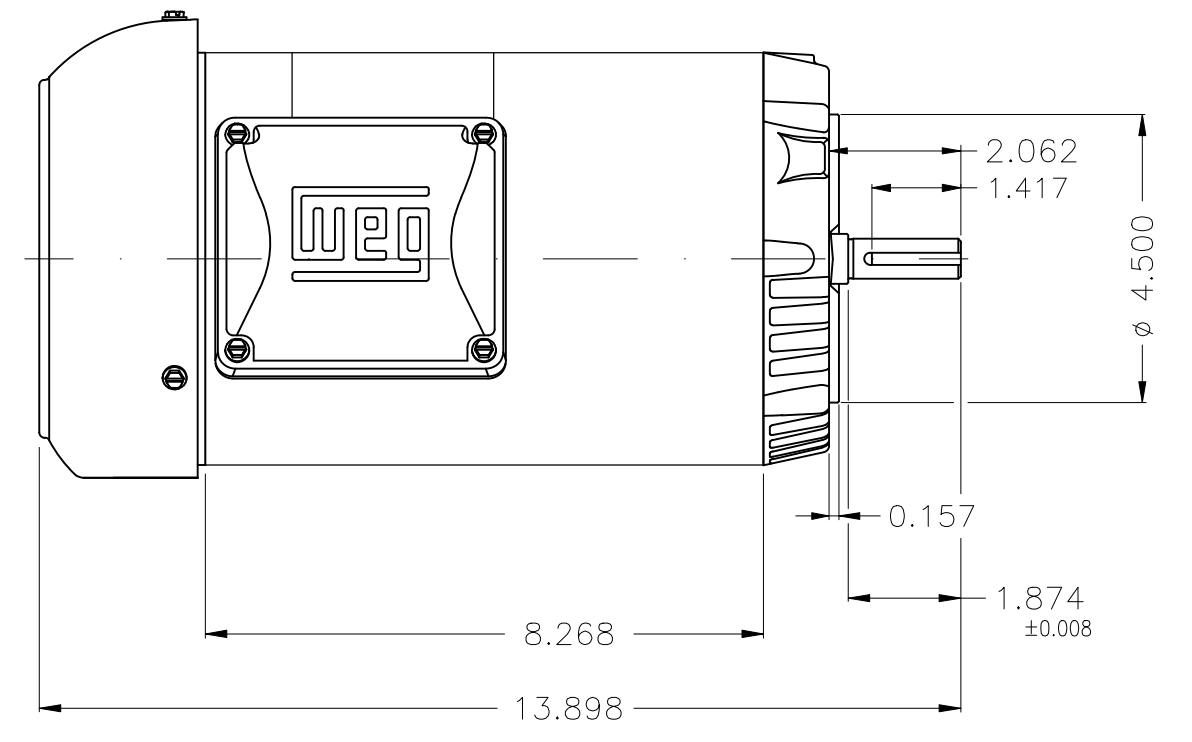
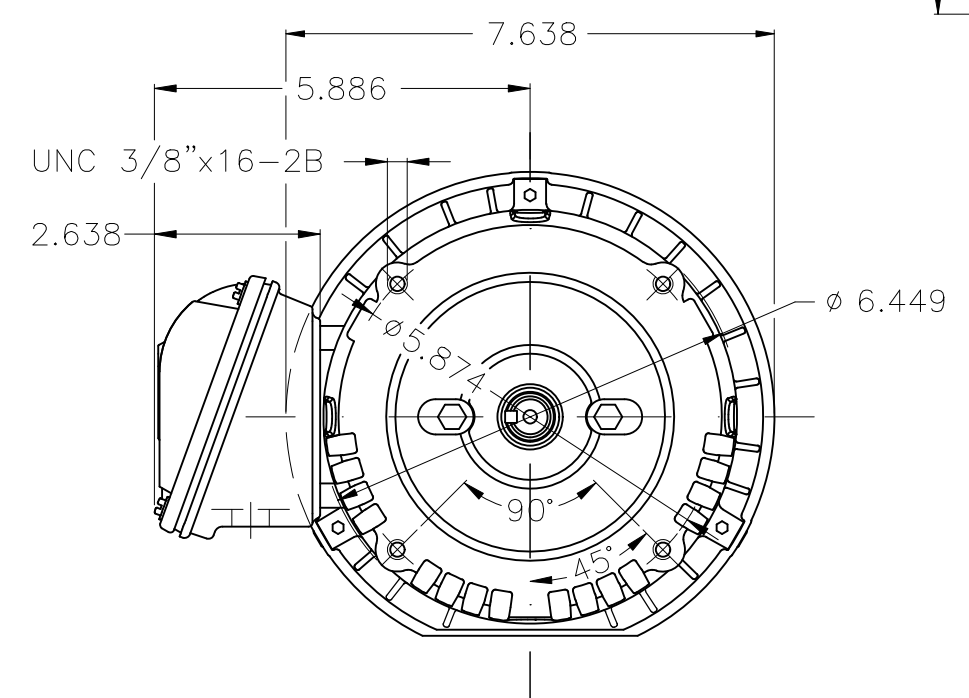
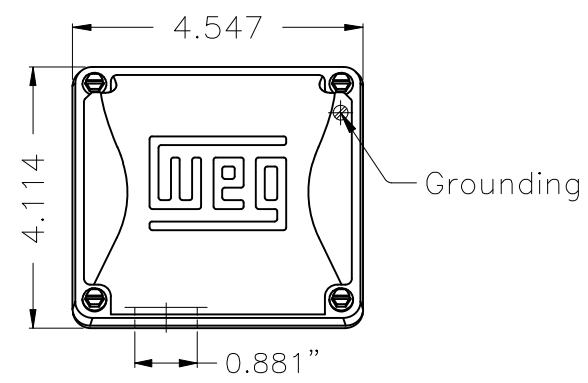


Performance : 415 V 50 Hz 4P

Rated current	: 3.07 A	Moment of inertia (J)	: 0.0055 kgm ²
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 1.01 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1435 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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A
B
C
D
E



Fan cover - steel plate					
Color Munsell N 1 matte black					
Painting plan 207N					
Mounting F-1/B14R(D)					
HYBRISUSER				00	
ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF.			
CHECKED		FRAME 56C IP55 TEFC			
RELEASED					
REL. DATE	WMO	Jaragua do Sul	Product Engineering	PREVIEW	
				WDD	00
				SHEET 1 / 1	

2 HP 04 Poles 60 Hz



Dimensions in inches XME A3