

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line		: Premium Efficiency Three-Phase	Product code :	15311780	
Frame	: 56C	Cooling method	: IC411 - TEFC		
Insulation class	: F	Mounting	: F-1		
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 12.5 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0036 kgm <sup>2</sup>		
Output [HP]	0.75	0.75	0.75		
Poles	4	4	4		
Frequency [Hz]	60	50	50		
Rated voltage [V]	208-230/460	190-220/380	415		
Rated current [A]	2.63-2.38/1.19	2.64-2.28/1.32	1.31		
L. R. Amperes [A]	20.3-18.3/9.16	16.1-13.9/8.05	8.91		
LRC [A]	7.7x(Code L)	6.1x(Code H)	6.8x(Code K)		
No load current [A]	1.42-1.64/0.822	1.62-1.40/0.809	0.950		
Rated speed [RPM]	1760	1450	1460		
Slip [%]	2.22	3.33	2.67		
Rated torque [kgfm]	0.309	0.375	0.373		
Locked rotor torque [%]	240	180	220		
Breakdown torque [%]	360	250	310		
Service factor		1.15	1.15		
Temperature rise	80 K	80 K	80 K		
Locked rotor time	28s (cold) 16s (hot)	27s (cold) 15s (hot)	23s (cold) 13s (hot)		
Noise level <sup>2</sup>	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)		
Efficiency (%)	25%				
	50%	75.5	77.9	75.1	
	75%	80.0	80.3	79.2	
	100%	81.5	80.0	80.2	
Power Factor	25%				
	50%	0.49	0.56	0.49	
	75%	0.62	0.70	0.63	
	100%	0.71	0.79	0.73	
Bearing type	: Drive end 6203 ZZ	Non drive end 6202 ZZ	Foundation loads		
Sealing	: V'Ring	Without Bearing Seal	Max. traction	: 31 kgf	
			Max. compression	: 43 kgf	
Lubrication interval	: -	-			
Lubricant amount	: -	-			
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V SF 1.00					
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	17/05/2022			1 / 4	

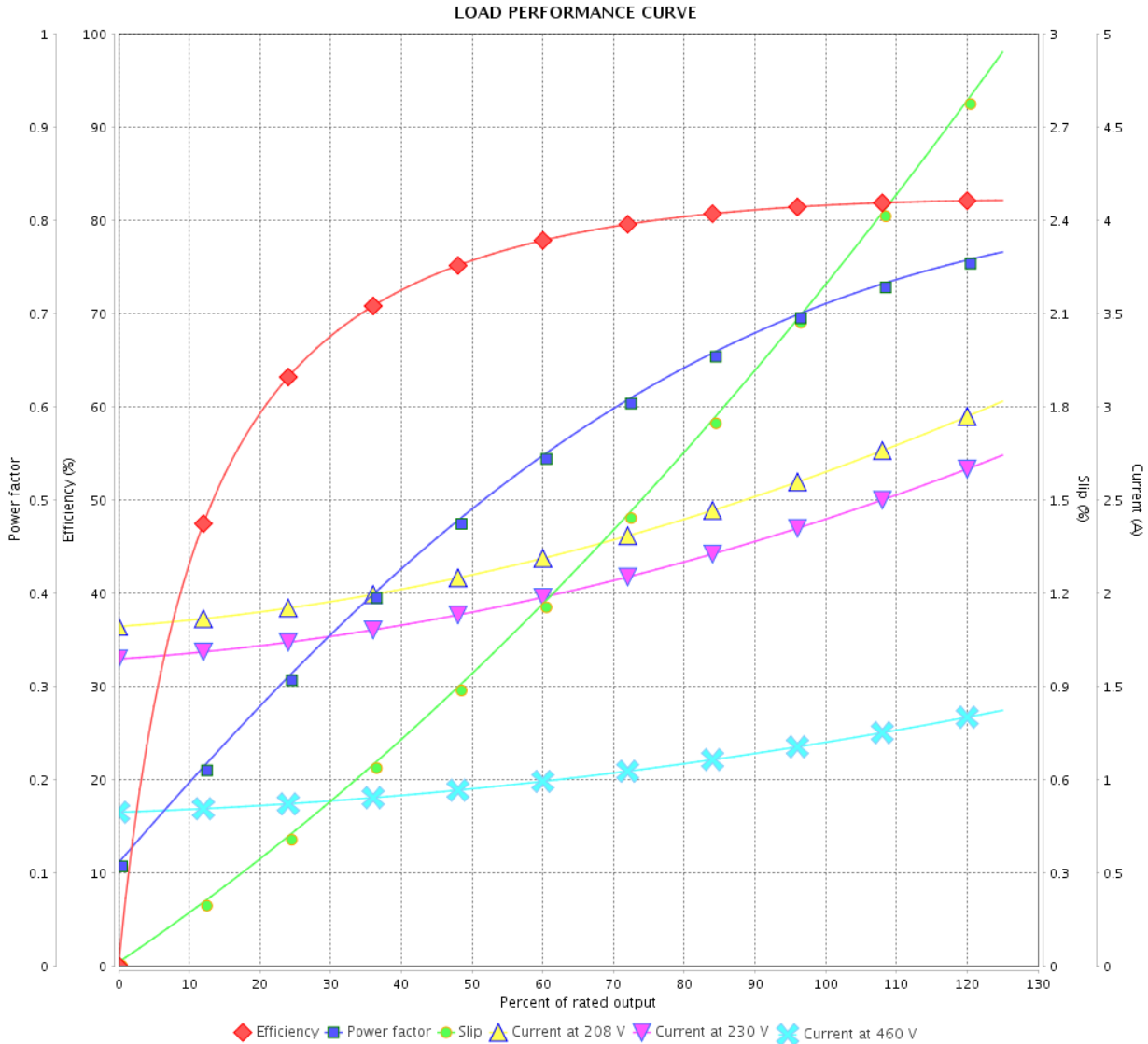
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 15311780



Performance : 208-230/460 V 60 Hz 4P

Rated current : 2.63-2.38/1.19 A  
 LRC : 7.7  
 Rated torque : 0.309 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 360 %  
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0036 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K

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

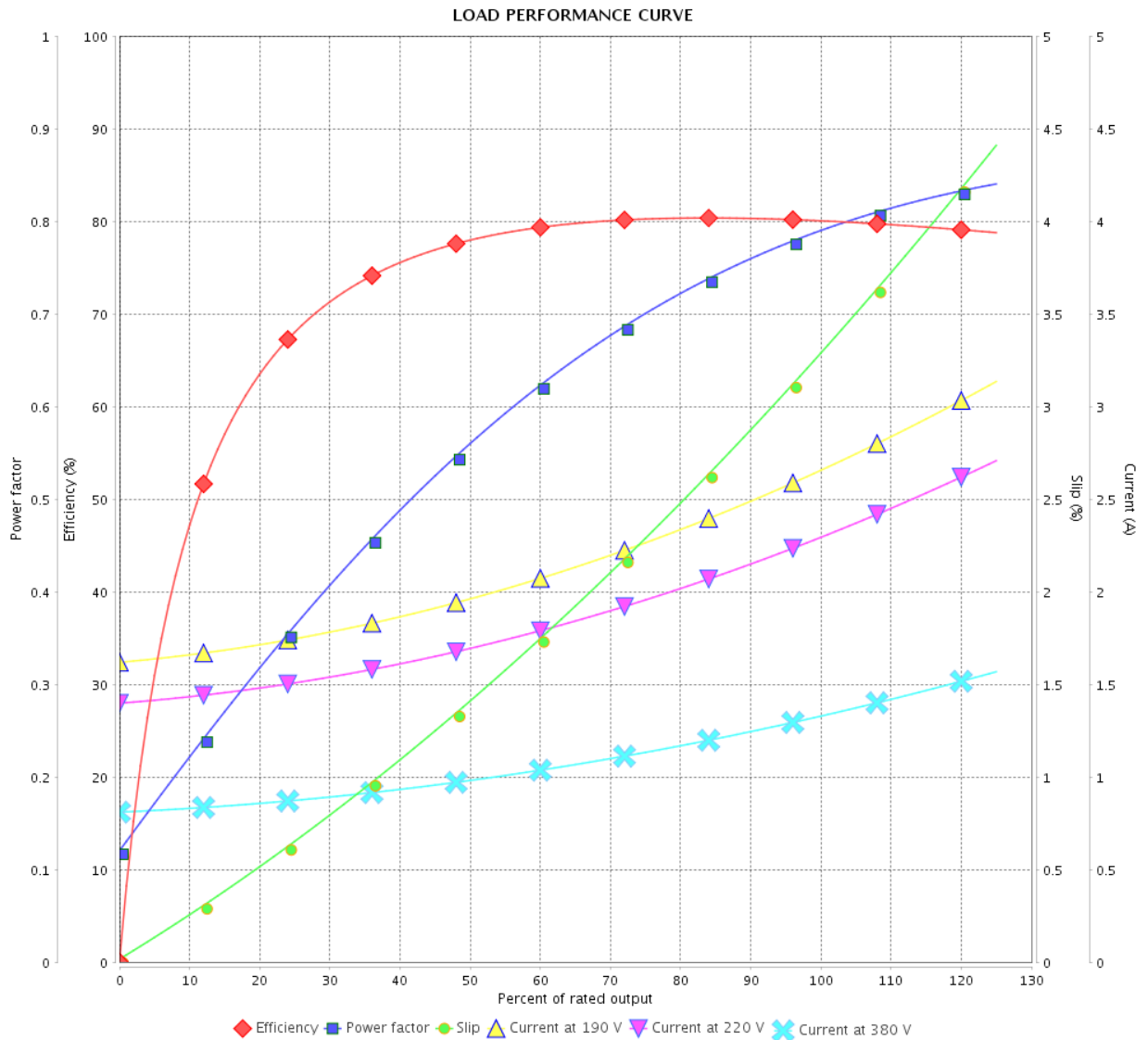
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : Premium Efficiency Three-Phase      Product code : 15311780



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

Rated current : 2.64-2.28/1.32 A  
 LRC : 6.1  
 Rated torque : 0.375 kgfm  
 Locked rotor torque : 180 %  
 Breakdown torque : 250 %  
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.0036 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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

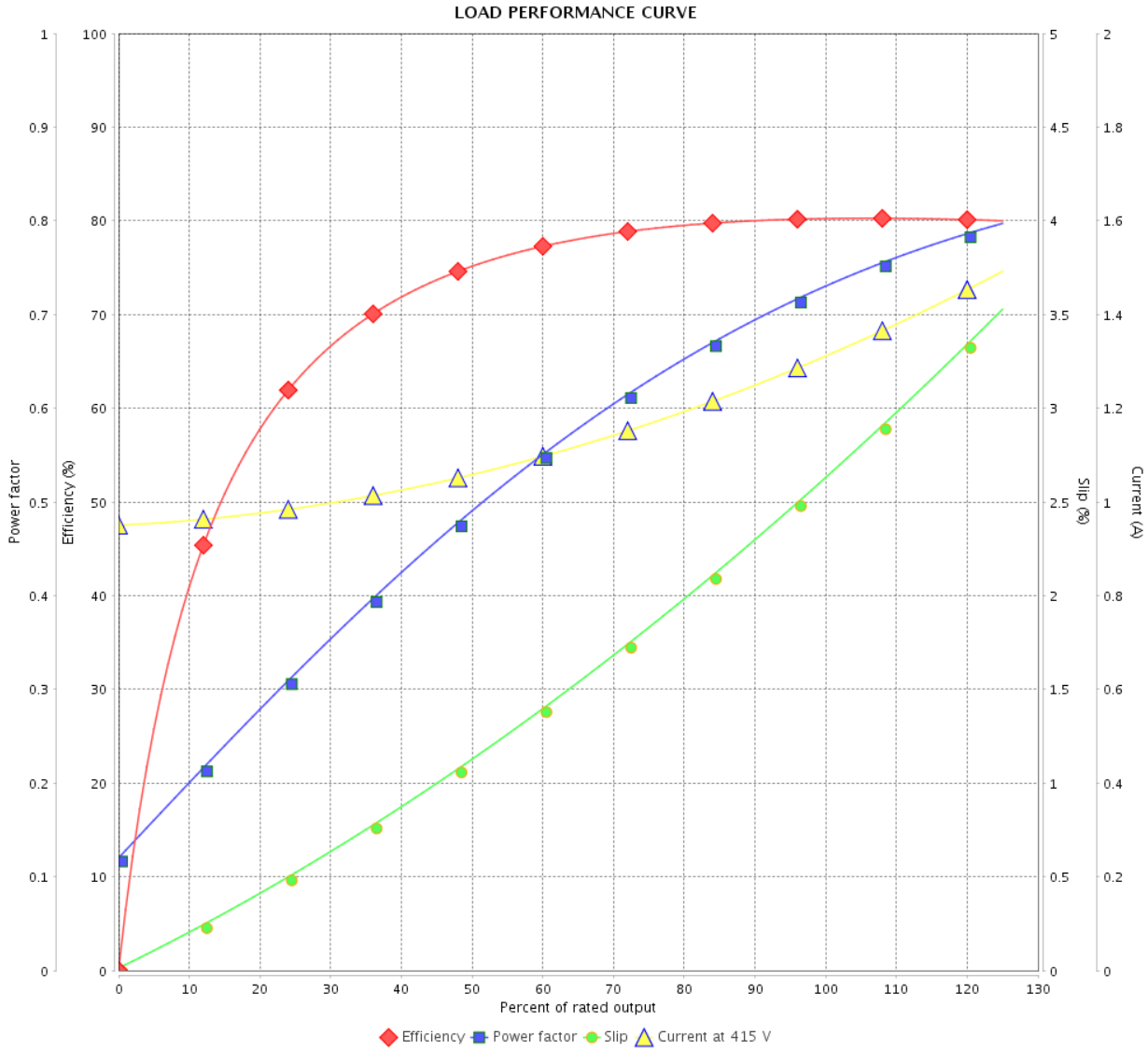
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 15311780



Performance : 415 V 50 Hz 4P

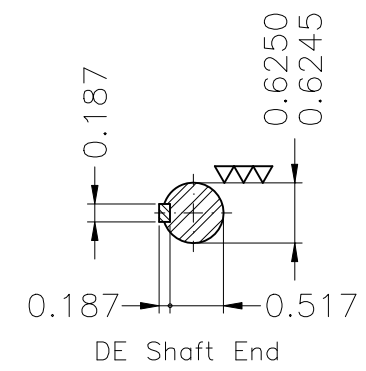
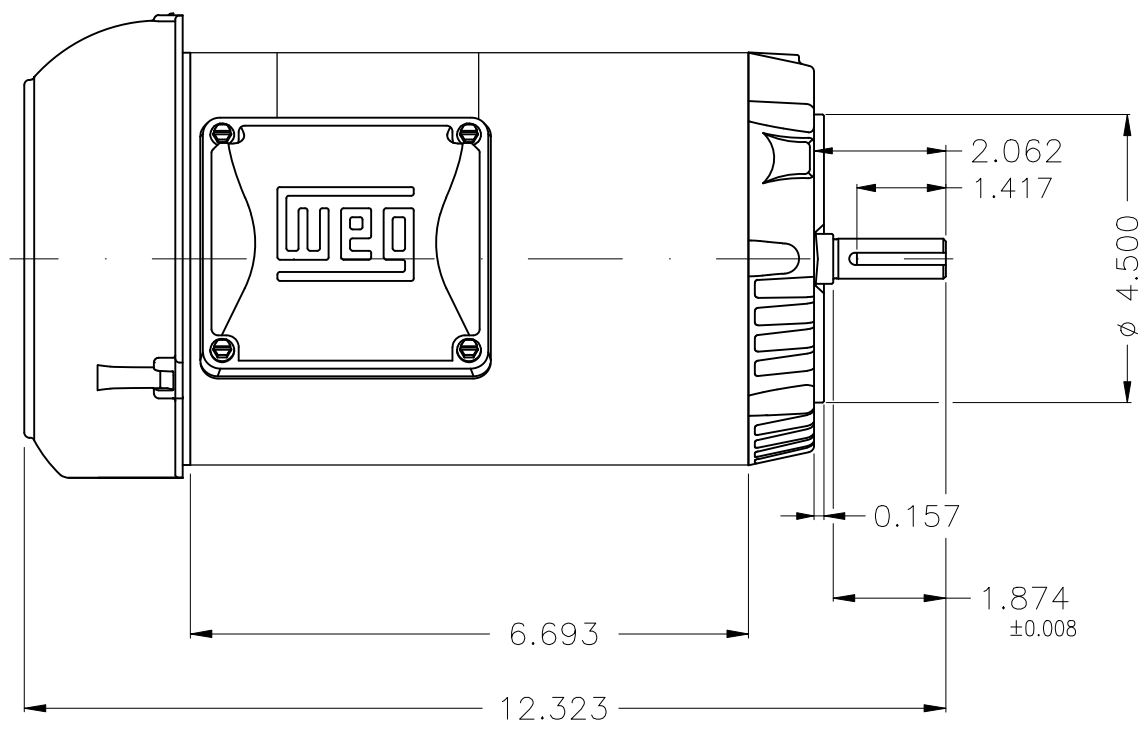
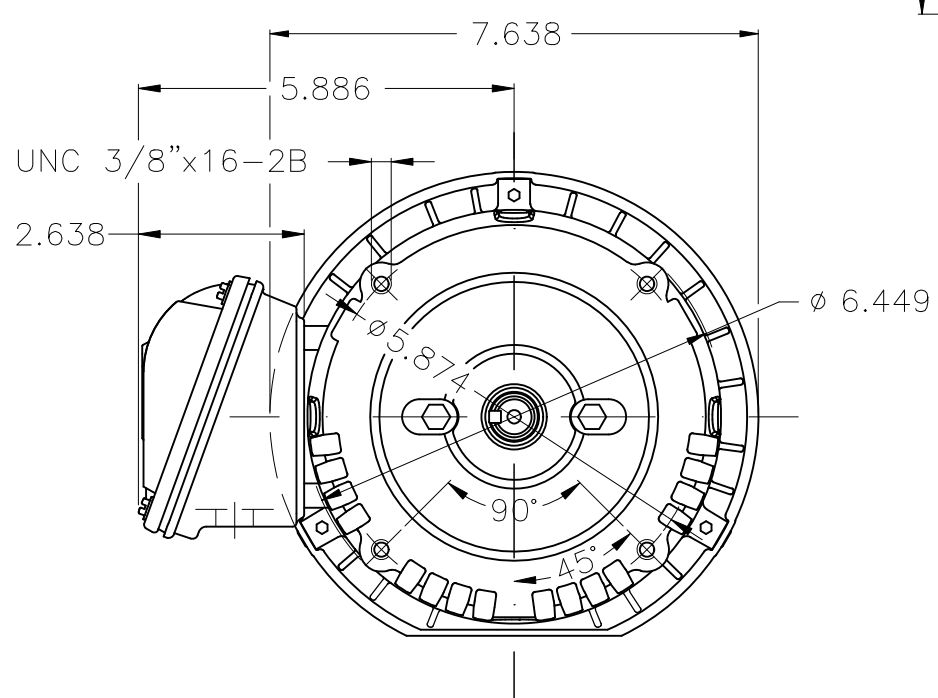
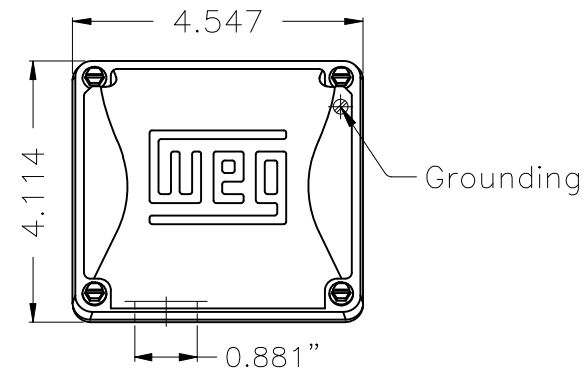
Rated current : 1.31 A  
 LRC : 6.8  
 Rated torque : 0.373 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 310 %  
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.0036 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
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1 2 3 4 5 6

A  
B  
C  
D  
E



Color Munsell N 1 matte black  
 Painting plan 207N  
 Mounting F-1/B14R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF.					
CHECKED		FRAME 56C IP55 TEFC					
RELEASED							

0.75 HP 04 Poles 60 Hz

A REL. DATE WMO Jaragua do Sul Product Engineering SHEET 1 / 1

PREVIEW  
 WDD 00

Dimensions in inches XME A3