

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :			
Product line	: Three-Phase	Product code :	13737502
Frame	: 56H	Cooling method	: IC01 - ODP
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>2</sup>	: 20.3 kg
Design	: A	Moment of inertia (J)	: 0.0060 kgm <sup>2</sup>
Output [HP]	3	2	2
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	7.94/3.97	6.96/3.48	6.75/3.58
L. R. Amperes [A]	60.3/30.2	55.0/27.5	58.1/30.8
LRC [A]	7.6x(Code K)	7.9x(Code L)	8.6x(Code M)
No load current [A]	4.20/2.10	4.19/2.10	4.88/2.59
Rated speed [RPM]	1735	1445	1455
Slip [%]	3.61	3.67	3.00
Rated torque [kgfm]	1.25	1.00	0.998
Locked rotor torque [%]	270	320	400
Breakdown torque [%]	300	370	450
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	21s (cold) 12s (hot)	30s (cold) 17s (hot)	25s (cold) 14s (hot)
Noise level <sup>2</sup>	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%		
	50%	86.5	85.1
	75%	86.5	86.6
	100%	86.9	86.2
Power Factor	25%		
	50%	0.59	0.54
	75%	0.72	0.68
	100%	0.80	0.76
Bearing type	: Drive end 6204 ZZ Non drive end 6202 ZZ	Foundation loads	
Sealing	: Without Bearing Seal Without Bearing Seal	Max. traction	: 134 kgf
Lubrication interval	: -	Max. compression	: 155 kgf
Lubricant amount	: -		
Lubricant type	: Mobil Polyrex EM		
Notes USABLE @208V 8.79A SF 1.00 SFA 8.79A			
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
Performed by			
Checked by			
Date	17/05/2022		
		Page	Revision
		1 / 4	

# LOAD PERFORMANCE CURVE

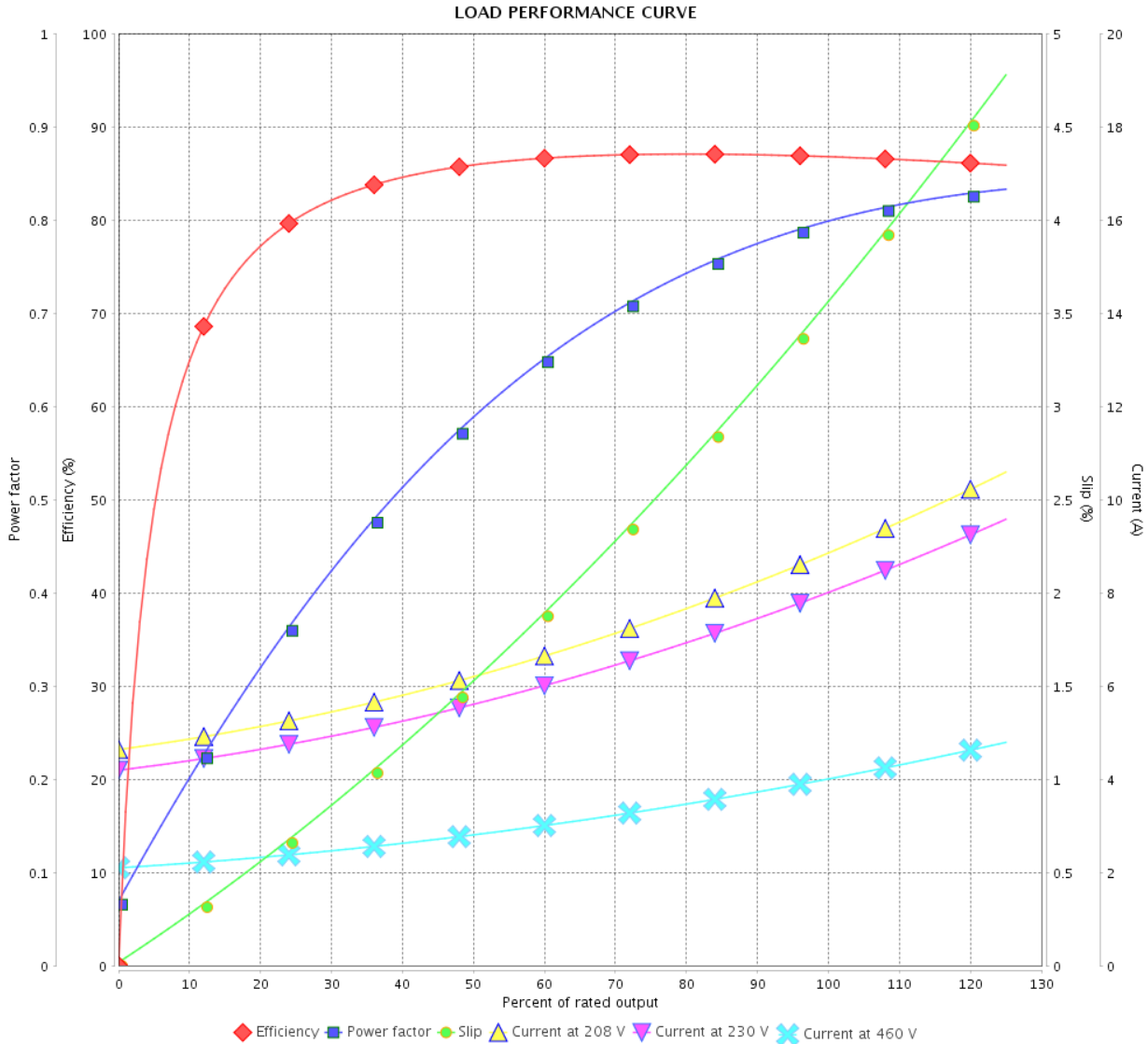
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase

Product code : 13737502



Performance : 230/460 V 60 Hz 4P

Rated current : 7.94/3.97 A  
 LRC : 7.6  
 Rated torque : 1.25 kgfm  
 Locked rotor torque : 270 %  
 Breakdown torque : 300 %  
 Rated speed : 1735 rpm

Moment of inertia (J) : 0.0060 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : A

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

# LOAD PERFORMANCE CURVE

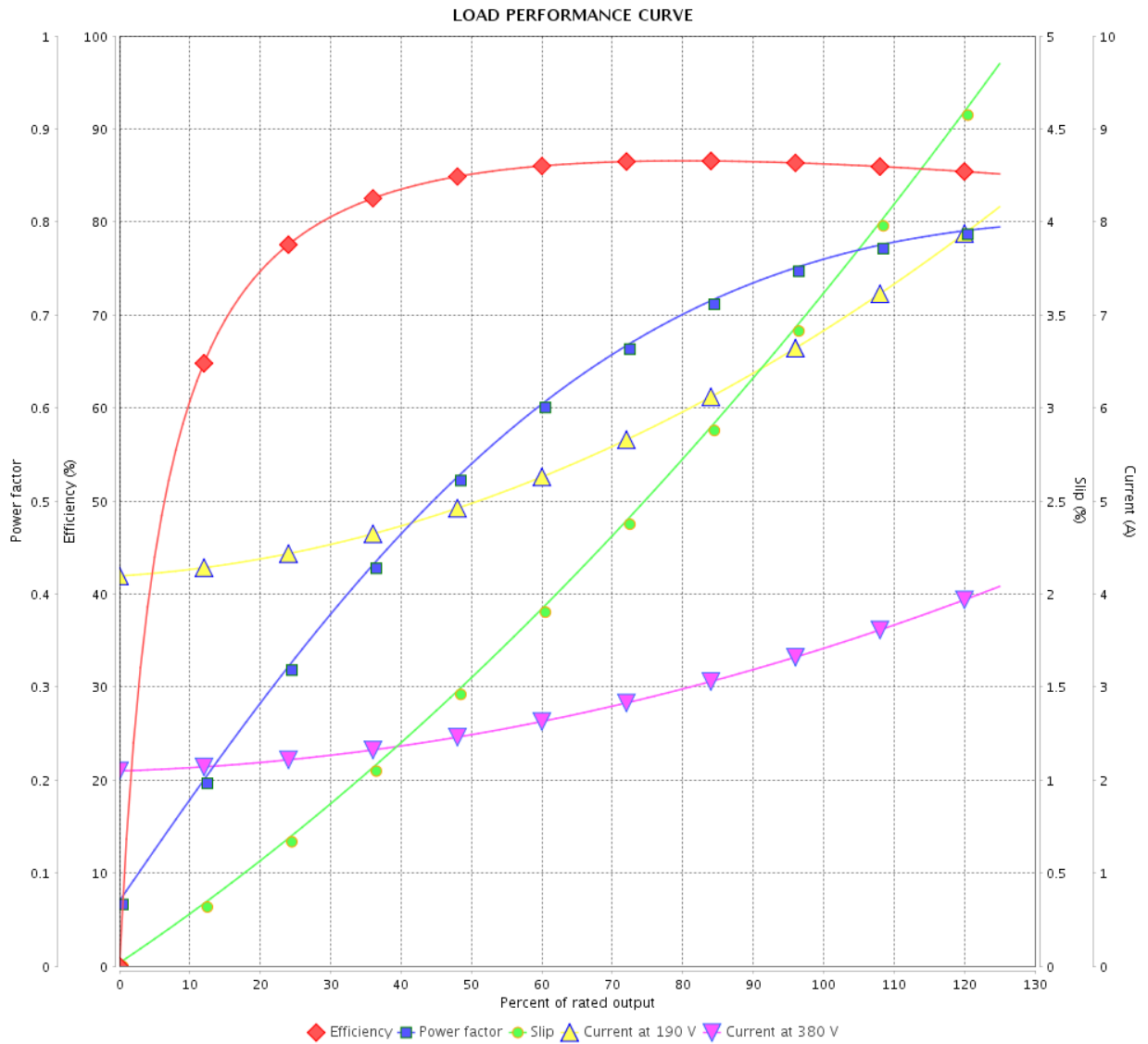
Three Phase Induction Motor - Squirrel Cage



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

Product line : Three-Phase

Product code : 13737502



Performance : 190/380 V 50 Hz 4P

Rated current : 6.96/3.48 A  
 LRC : 7.9  
 Rated torque : 1.00 kgfm  
 Locked rotor torque : 320 %  
 Breakdown torque : 370 %  
 Rated speed : 1445 rpm

Moment of inertia (J) : 0.0060 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				
			3 / 4	

# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

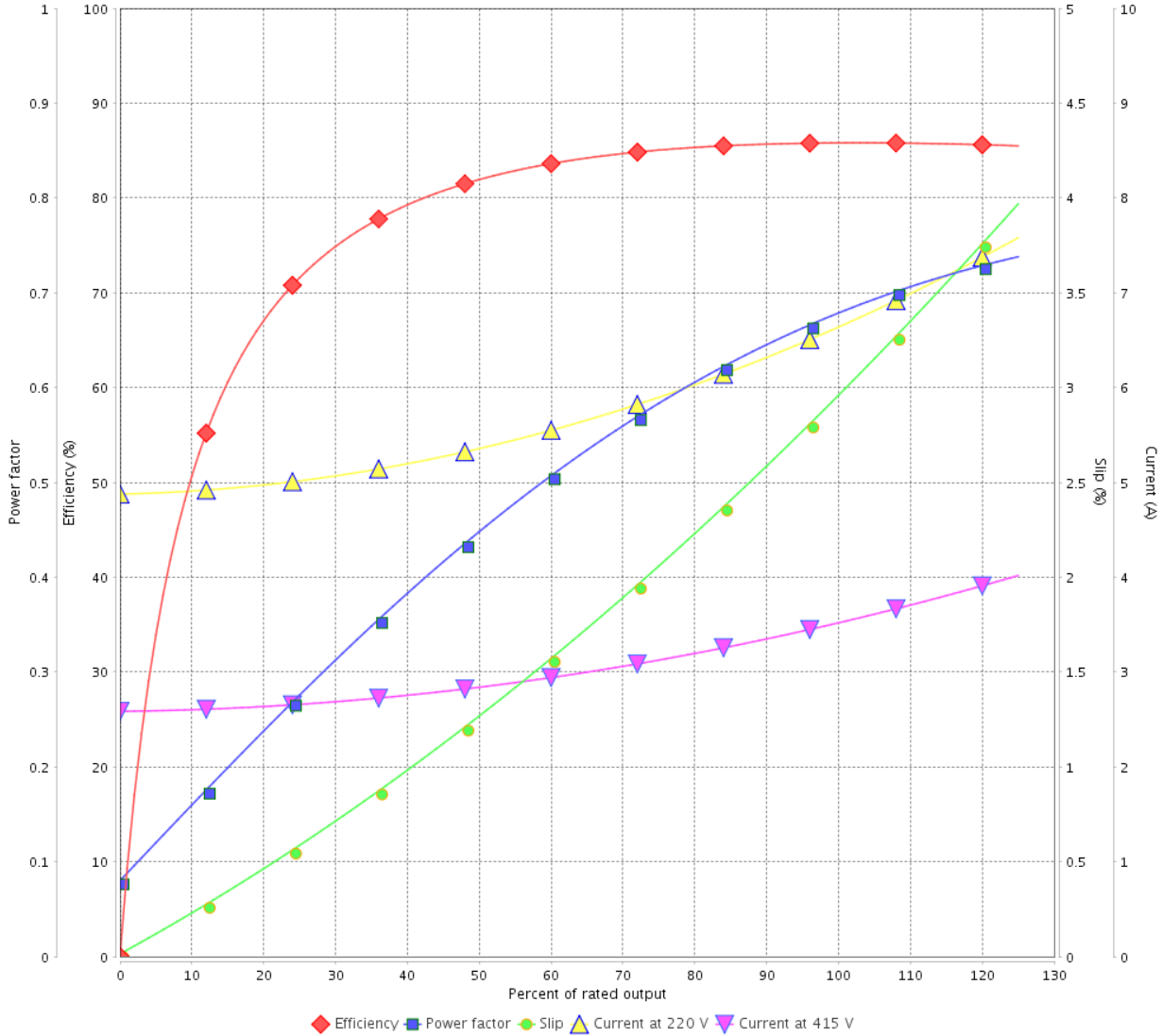


Customer :

Product line : Three-Phase

Product code : 13737502

LOAD PERFORMANCE CURVE



Performance : 220/415 V 50 Hz 4P

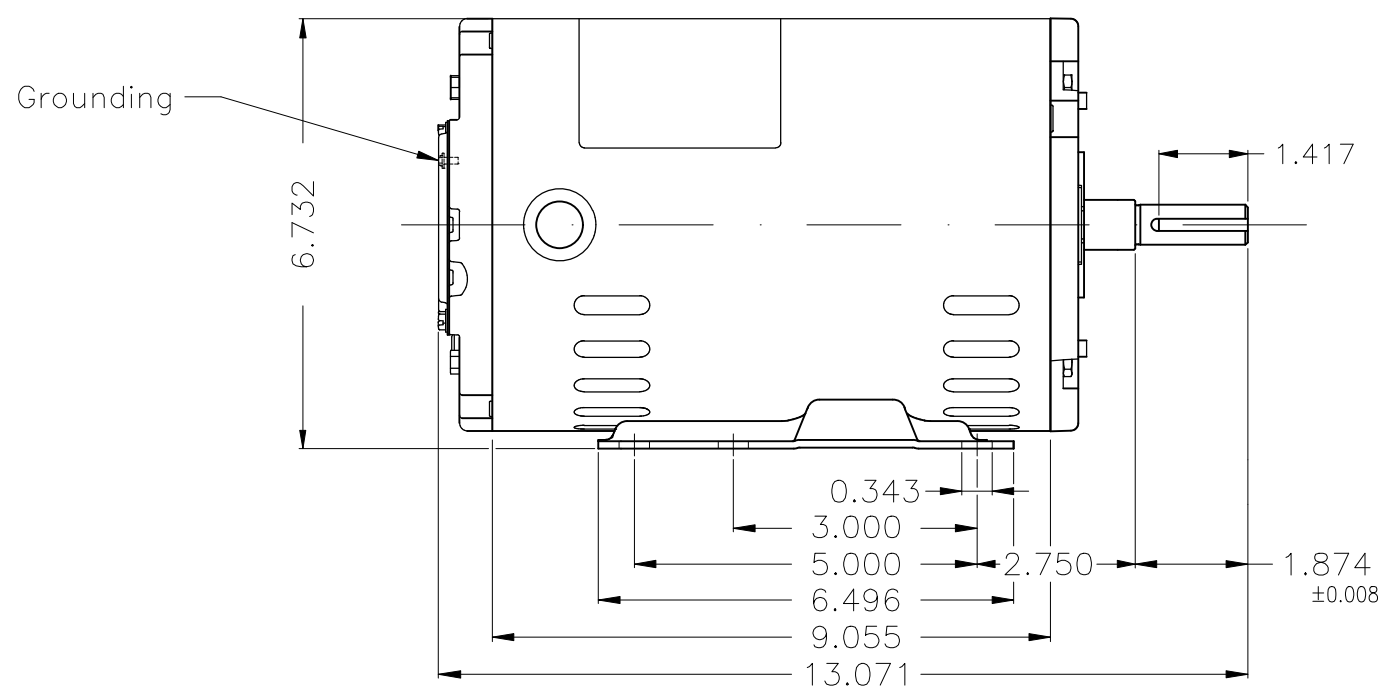
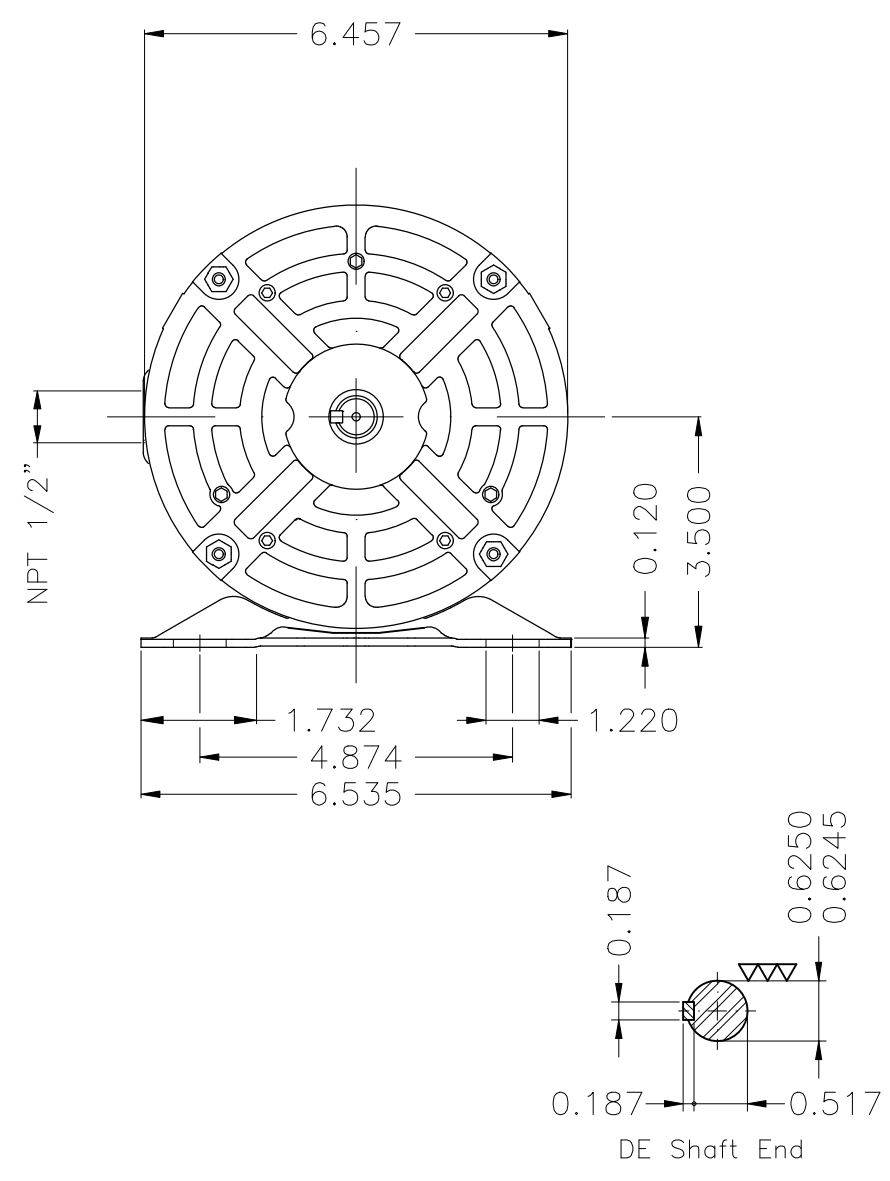
Rated current : 6.75/3.58 A  
 LRC : 8.6  
 Rated torque : 0.998 kgfm  
 Locked rotor torque : 400 %  
 Breakdown torque : 450 %  
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.0060 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 4	Revision
Checked by				
Date	17/05/2022			

1 2 3 4 5 6

A  
B  
C  
D  
E



Color Munsell N 1 matte black						
Painting plan 207N						
Mounting F-1/B3R(D)						
					HYBRISUSER	00
ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED DATE VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF.			PREVIEW	
CHECKED		FRAME 56H IP21 ODP			WDD	00
RELEASED						
REL. DATE	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1	

3 HP 04 Poles 60 Hz

A



Dimensions in inches XME A3