

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :	
Product line	: Standard Efficiency Three-Phase
Product code	: 13502188
Frame	: 56
Insulation class	: F
Duty cycle	: Cont.(S1)
Ambient temperature	: -20°C to +40°C
Altitude	: 1000 m.a.s.l.
Cooling method	: IC01 - ODP
Mounting	: F-1
Rotation <sup>1</sup>	: Both (CW and CCW)
Starting method	: Direct On Line
Approx. weight <sup>3</sup>	: 7.9 kg
Moment of inertia (J)	: 0.0019 kgm <sup>2</sup>
Output [HP]	0.5
Poles	4
Frequency [Hz]	60
Rated voltage [V]	208-230/460
Rated current [A]	2.16-1.95/0.977
L. R. Amperes [A]	13.0-11.7/5.86
LRC [A]	6.0x(Code L)
No load current [A]	1.38-1.60/0.800
Rated speed [RPM]	1755
Slip [%]	2.50
Rated torque [kgfm]	0.207
Locked rotor torque [%]	220
Breakdown torque [%]	290
Service factor	
Temperature rise	80 K
Locked rotor time	41s (cold) 23s (hot)
Noise level <sup>2</sup>	52.0 dB(A)
Efficiency (%)	25%
	50%
	75%
	100%
Power Factor	25%
	50%
	75%
	100%
Bearing type	: <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 6202 ZZ
Sealing	: Without Without Bearing Seal Bearing Seal
Lubrication interval	: - -
Lubricant amount	: - -
Lubricant type	: Mobil Polyrex EM
Foundation loads	Max. traction : 17 kgf Max. compression : 25 kgf
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 by	Performed
Checked by	Checked
Date	Date
17/05/2022	
Page	Revision
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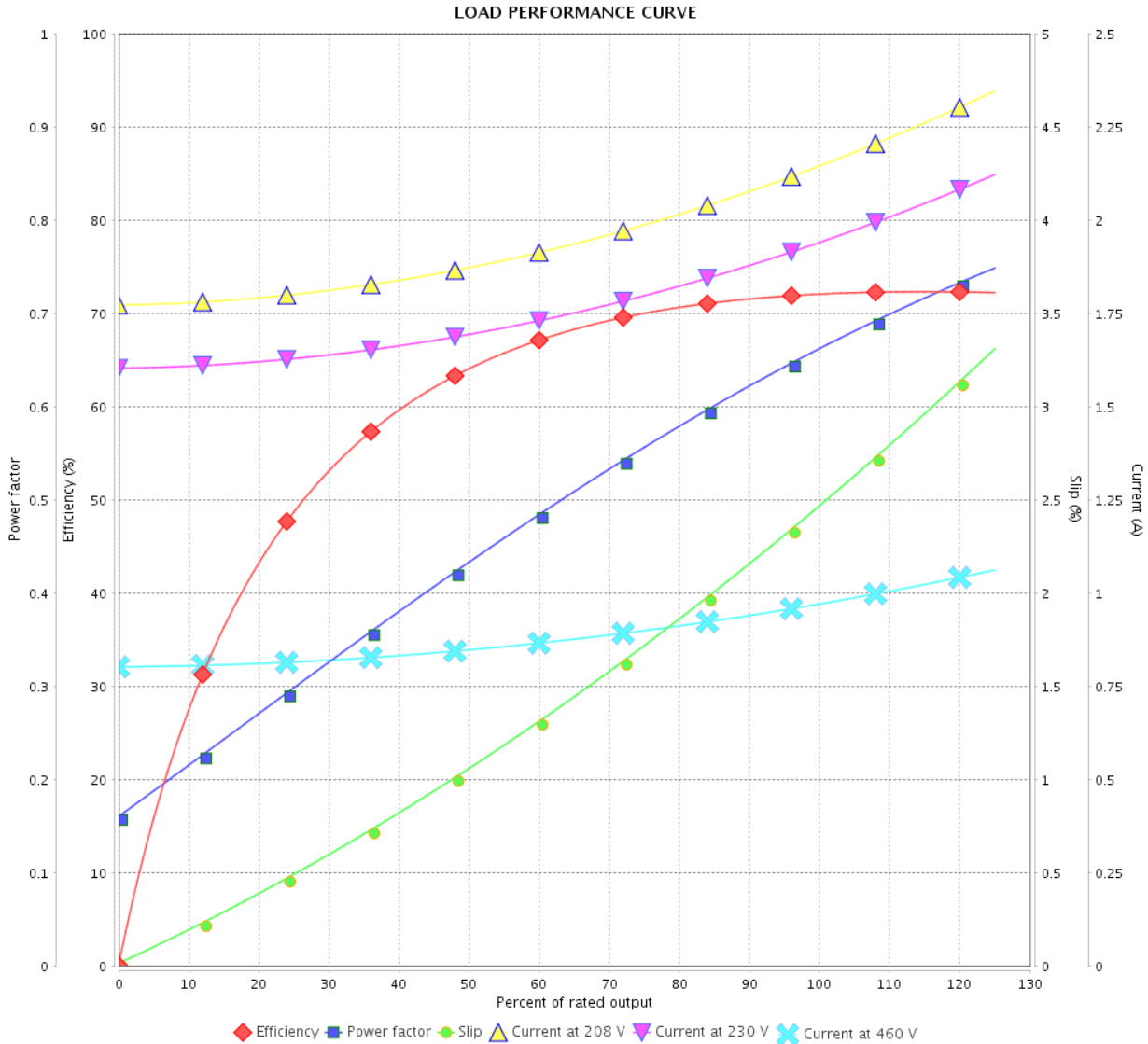
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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

Product line : Standard Efficiency Three-Phase      Product code : 13502188



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

Rated current : 2.16-1.95/0.977 A  
 LRC : 6.0  
 Rated torque : 0.207 kgfm  
 Locked rotor torque : 220 %  
 Breakdown torque : 290 %  
 Rated speed : 1755 rpm

Moment of inertia (J) : 0.0019 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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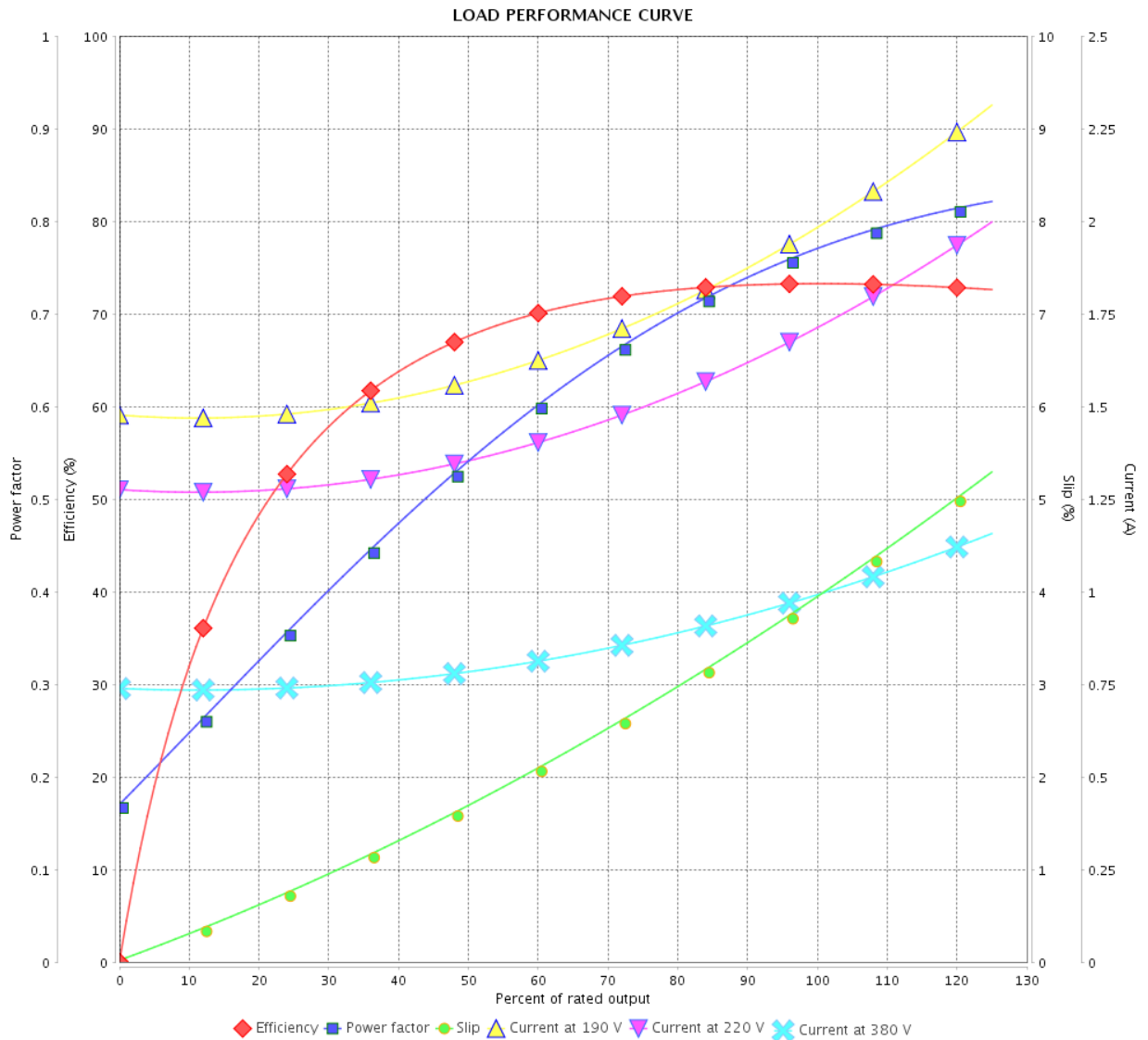
# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



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

Product line : Standard Efficiency Three-Phase      Product code : 13502188



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

Rated current : 1.99-1.72/0.997 A  
 LRC : 4.9  
 Rated torque : 0.252 kgfm  
 Locked rotor torque : 180 %  
 Breakdown torque : 220 %  
 Rated speed : 1440 rpm

Moment of inertia (J) : 0.0019 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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# LOAD PERFORMANCE CURVE

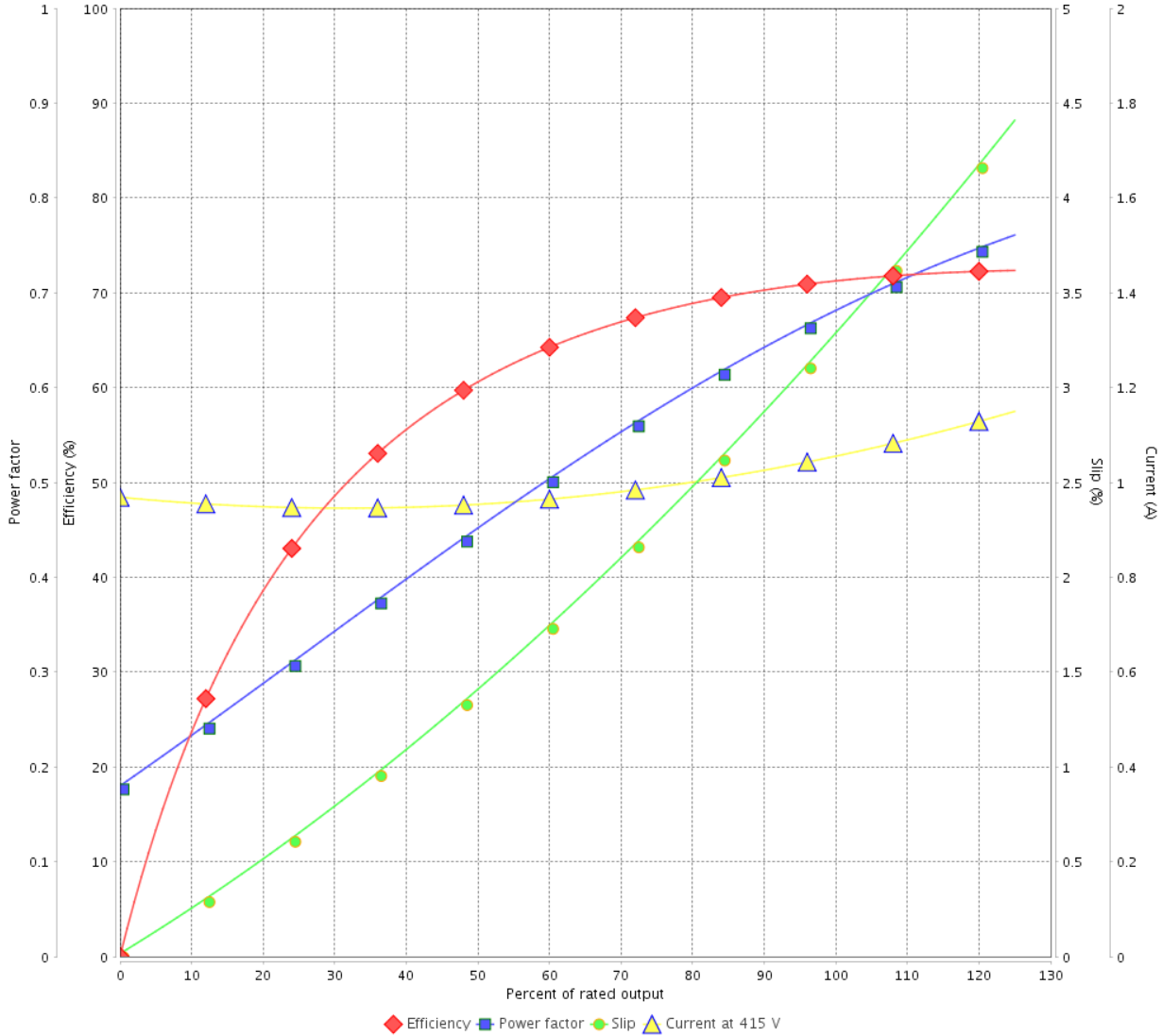
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13502188

LOAD PERFORMANCE CURVE



Performance : 415 V 50 Hz 4P

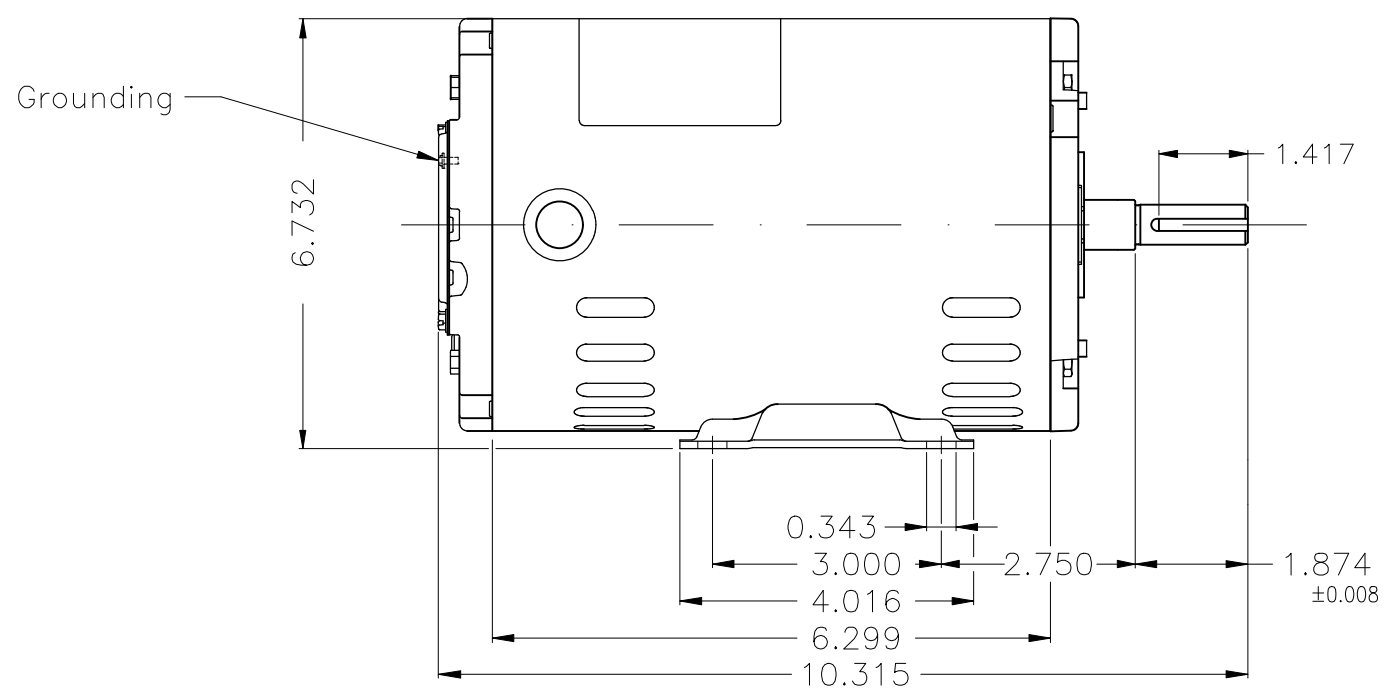
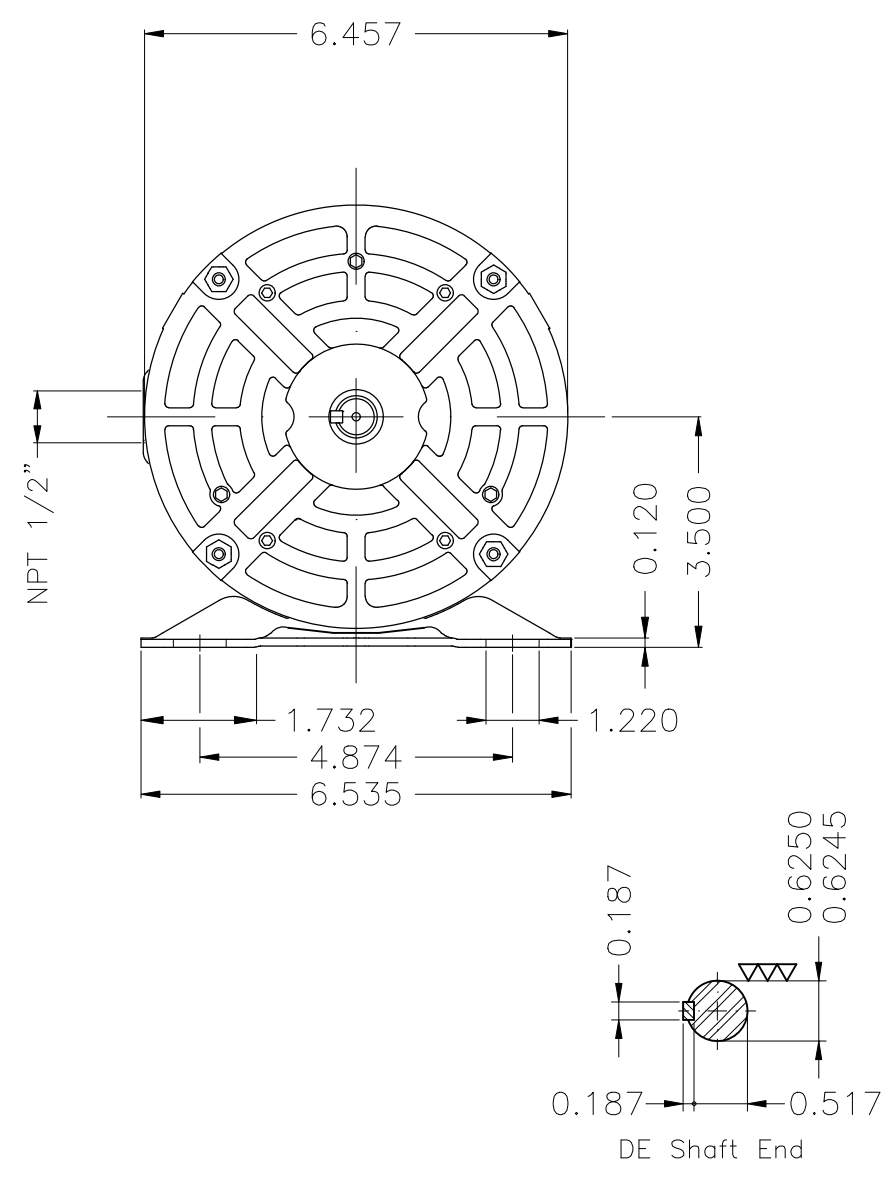
Rated current : 1.06 A  
 LRC : 5.1  
 Rated torque : 0.250 kgfm  
 Locked rotor torque : 200 %  
 Breakdown torque : 270 %  
 Rated speed : 1450 rpm

Moment of inertia (J) : 0.0019 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 4 / 4	Revision
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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/B3R(D)									
					HYBRISUSER	00			
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR ROLLED STEEL				<b>PREVIEW</b> WDD   00			
CHECKED		FRAME 56 IP21 ODP							
RELEASED									
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			

0.5 HP 04 Poles 60 Hz

A