

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :			
Product line	: Jet Pump - C type Standard Efficiency Three-Phase	Product code :	13917951
Frame	: 56C	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation ¹	: CCW
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 15.0 kg
Design	: A	Moment of inertia (J)	: 0.0040 kgm ²
Output [HP]	3	2	2
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	7.78/3.89	6.30/3.15	6.02/3.19
L. R. Amperes [A]	54.5/27.2	48.5/24.3	51.1/27.1
LRC [A]	7.0x(Code J)	7.7x(Code J)	8.5x(Code L)
No load current [A]	3.20/1.60	3.20/1.60	4.15/2.20
Rated speed [RPM]	3450	2875	2900
Slip [%]	4.17	4.17	3.33
Rated torque [kgfm]	0.631	0.505	0.501
Locked rotor torque [%]	220	260	320
Breakdown torque [%]	250	300	360
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	14s (cold) 8s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%		
	50%	80.0	81.0
	75%	81.5	82.8
	100%	81.5	82.2
Power Factor	25%		
	50%	0.70	0.69
	75%	0.82	0.82
	100%	0.87	0.88
Bearing type	: <u>Drive end</u> 6203 2RS <u>Non drive end</u> 6202 2RS	Foundation loads	
Sealing	: Without Bearing Seal Without Bearing Seal	Max. traction	: 50 kgf
		Max. compression	: 65 kgf
Lubrication interval	: -		
Lubricant amount	: -		
Lubricant type	: Mobil Polyrex EM		
Notes USABLE @208V 8.60A SF 1.00 SFA 8.60A			
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.	
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Three Phase Induction Motor - Squirrel Cage

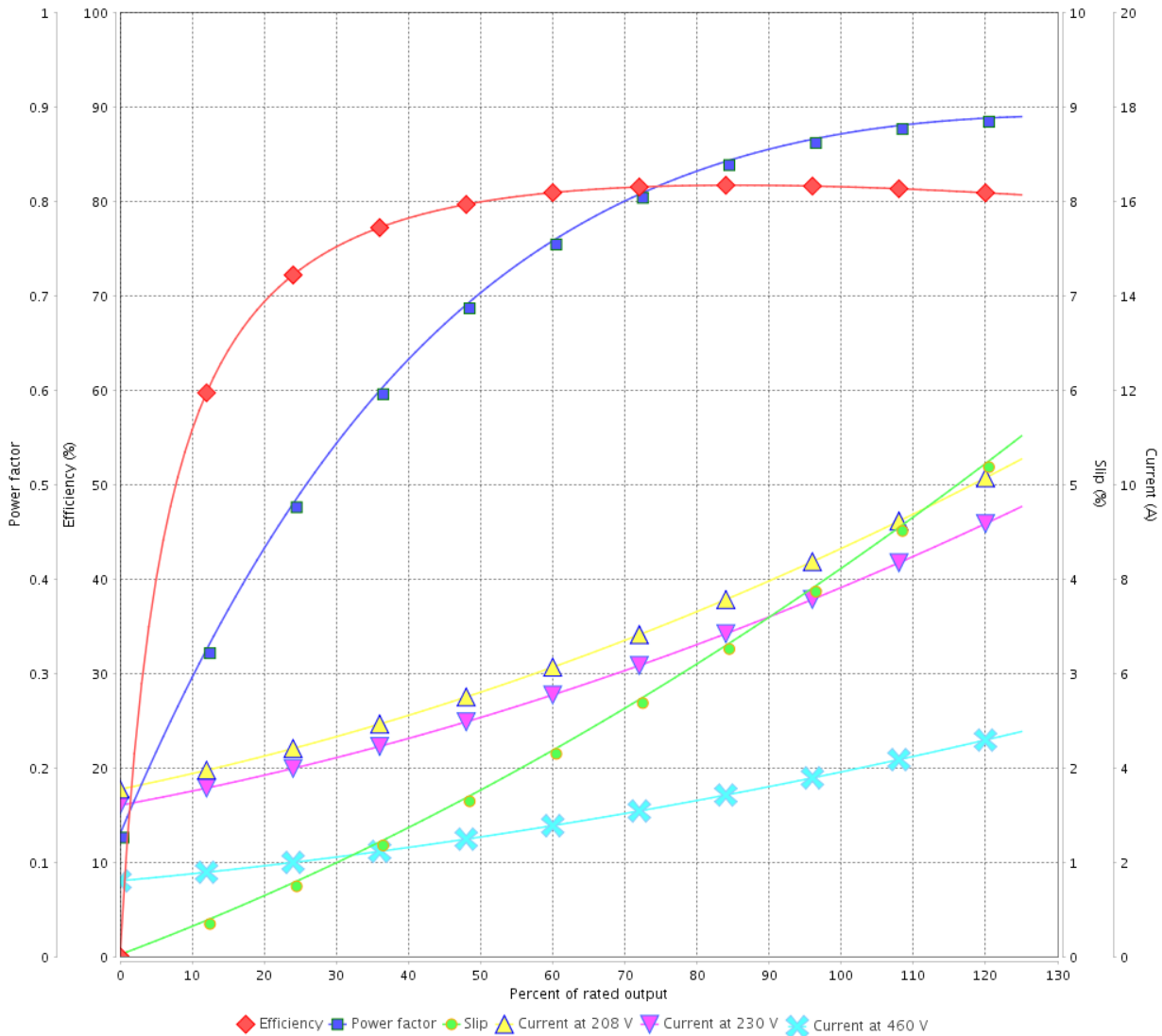


Customer :

Product line : Jet Pump - C type Standard
Efficiency Three-Phase

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Performance : 230/460 V 60 Hz 2P

Rated current : 7.78/3.89 A
LRC : 7.0
Rated torque : 0.631 kgfm
Locked rotor torque : 220 %
Breakdown torque : 250 %
Rated speed : 3450 rpm

Moment of inertia (J) : 0.0040 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor :
Temperature rise : 80 K
Design : A

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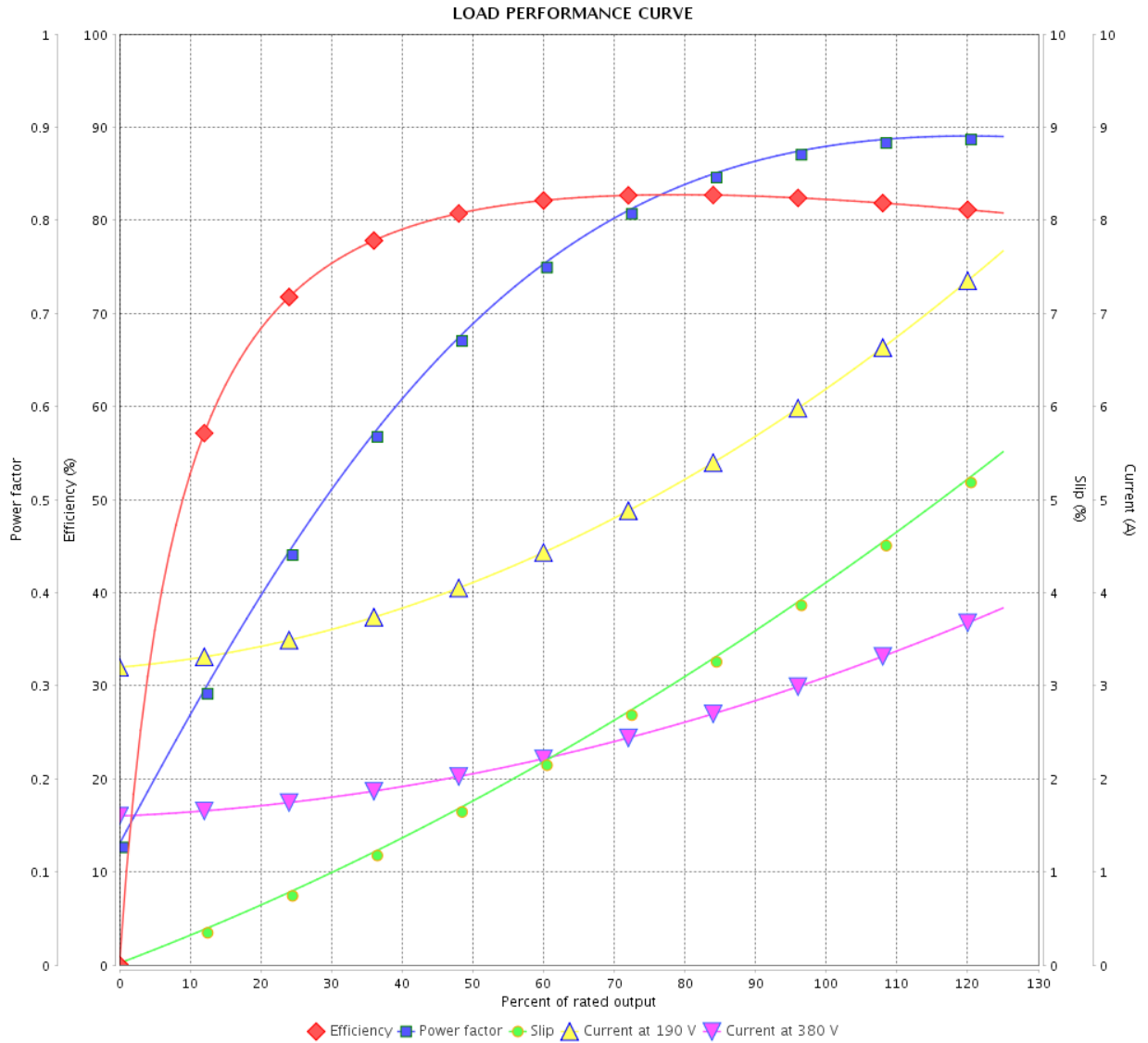
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 190/380 V 50 Hz 2P

Rated current : 6.30/3.15 A
LRC : 7.7
Rated torque : 0.505 kgfm
Locked rotor torque : 260 %
Breakdown torque : 300 %
Rated speed : 2875 rpm

Moment of inertia (J) : 0.0040 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

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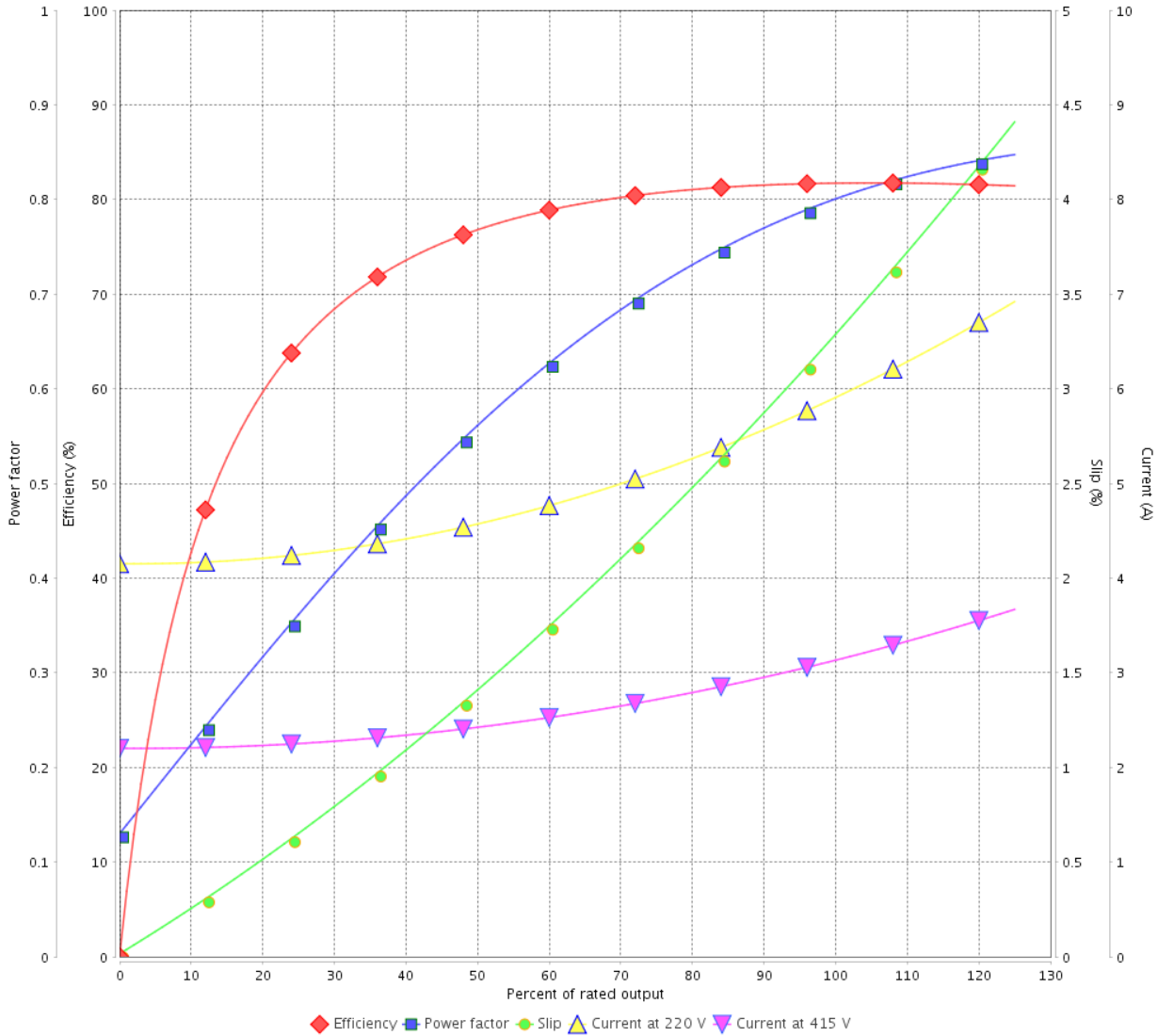


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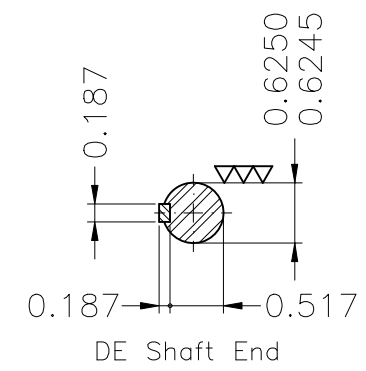
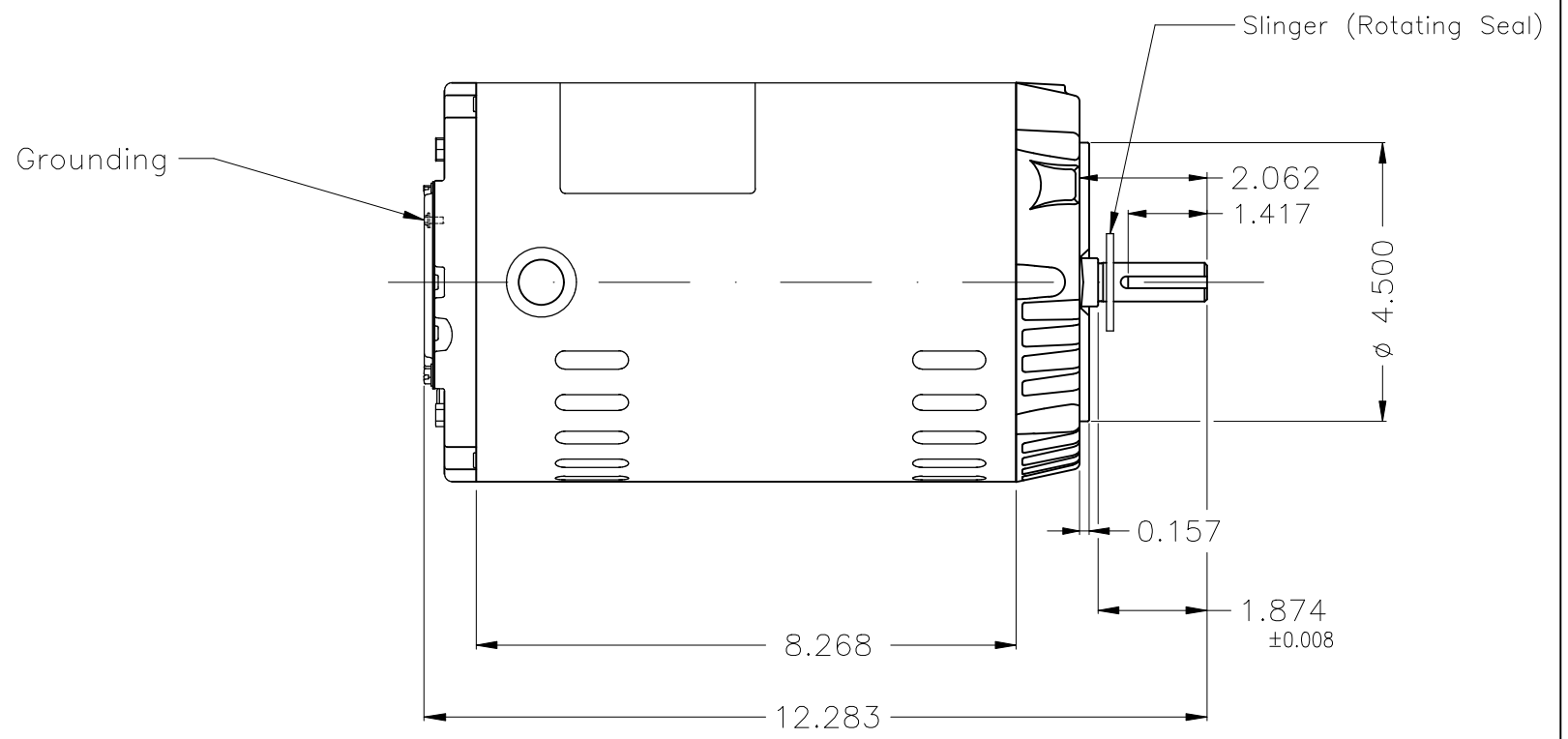
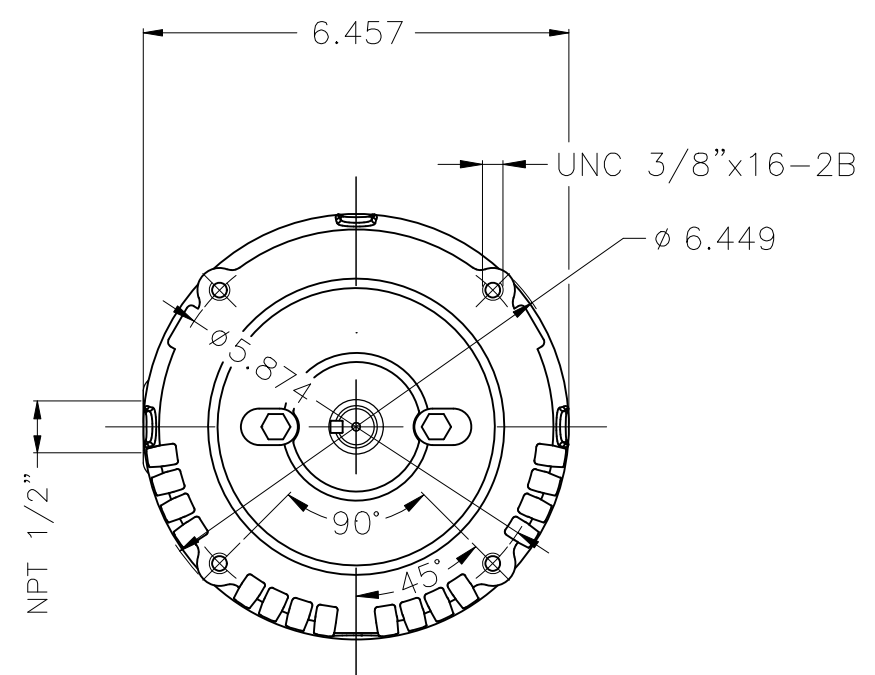


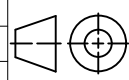

Performance : 220/415 V 50 Hz 2P

Rated current : 6.02/3.19 A
 LRC : 8.5
 Rated torque : 0.501 kgfm
 Locked rotor torque : 320 %
 Breakdown torque : 360 %
 Rated speed : 2900 rpm

Moment of inertia (J) : 0.0040 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
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Color Munsell N 1 matte black									
Painting plan 207N									
Mounting F-1/B14R(D)									
						00			
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	 THREE PH. MOTOR ROLLED STEEL JET PUMP KEYED FRAME 56C IP21 ODP			PREVIEW				
CHECKED					WDD	00			
RELEASED					SHEET	1 / 1			
REL. DATE		WMO	Jaragua do Sul	Product Engineering					

3 HP 02 Poles 60 Hz

A