

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| | |
|--|---|
| Customer : | |
| Product line | : Standard Efficiency Three-Phase |
| Product code | : 13484853 |
| Frame | : 56H |
| Insulation class | : F |
| Duty cycle | : Cont.(S1) |
| Ambient temperature | : -20°C to +40°C |
| Altitude | : 1000 m.a.s.l. |
| Design | : A |
| Cooling method | : IC01 - ODP |
| Mounting | : F-1 |
| Rotation ¹ | : Both (CW and CCW) |
| Starting method | : Direct On Line |
| Approx. weight ³ | : 14.9 kg |
| Moment of inertia (J) | : 0.0044 kgm ² |
| Output [HP] | 2 |
| Poles | 4 |
| Frequency [Hz] | 60 |
| Rated voltage [V] | 230/460 |
| Rated current [A] | 6.22/3.11 |
| L. R. Amperes [A] | 41.7/20.8 |
| LRC [A] | 6.7x(Code K) |
| No load current [A] | 4.00/2.00 |
| Rated speed [RPM] | 1740 |
| Slip [%] | 3.33 |
| Rated torque [kgfm] | 0.834 |
| Locked rotor torque [%] | 240 |
| Breakdown torque [%] | 250 |
| Service factor | |
| Temperature rise | 80 K |
| Locked rotor time | 12s (cold) 7s (hot) |
| Noise level ² | 52.0 dB(A) |
| Efficiency (%) | 25% |
| | 50% |
| | 75% |
| | 100% |
| Power Factor | 25% |
| | 50% |
| | 75% |
| | 100% |
| Bearing type | : <u>Drive end</u> 6204 ZZ <u>Non drive end</u> 6202 ZZ |
| Sealing | : Without Bearing Seal Without Bearing Seal |
| Lubrication interval | : - |
| Lubricant amount | : - |
| Lubricant type | : Mobil Polyrex EM |
| Foundation loads | Max. traction : 74 kgf |
| | Max. compression : 89 kgf |
| Notes | |
| USABLE @208V 6.88A SF 1.00 SFA 6.88A | |
| 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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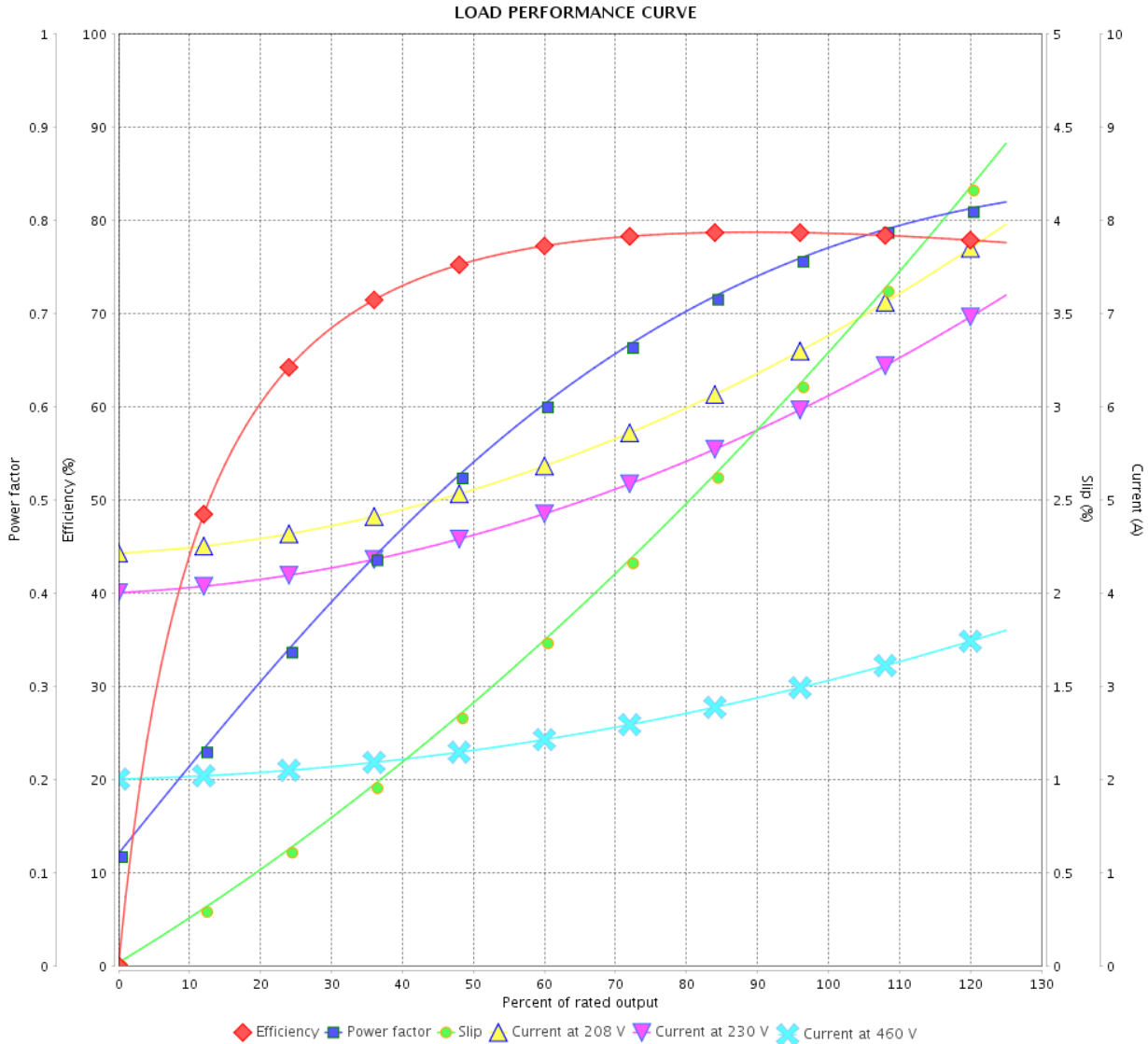
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13484853



Performance : 230/460 V 60 Hz 4P

Rated current : 6.22/3.11 A
 LRC : 6.7
 Rated torque : 0.834 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 250 %
 Rated speed : 1740 rpm

Moment of inertia (J) : 0.0044 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : A

| Rev. | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------------|----------|
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| Checked by | | | | |
| Date | 17/05/2022 | | | |

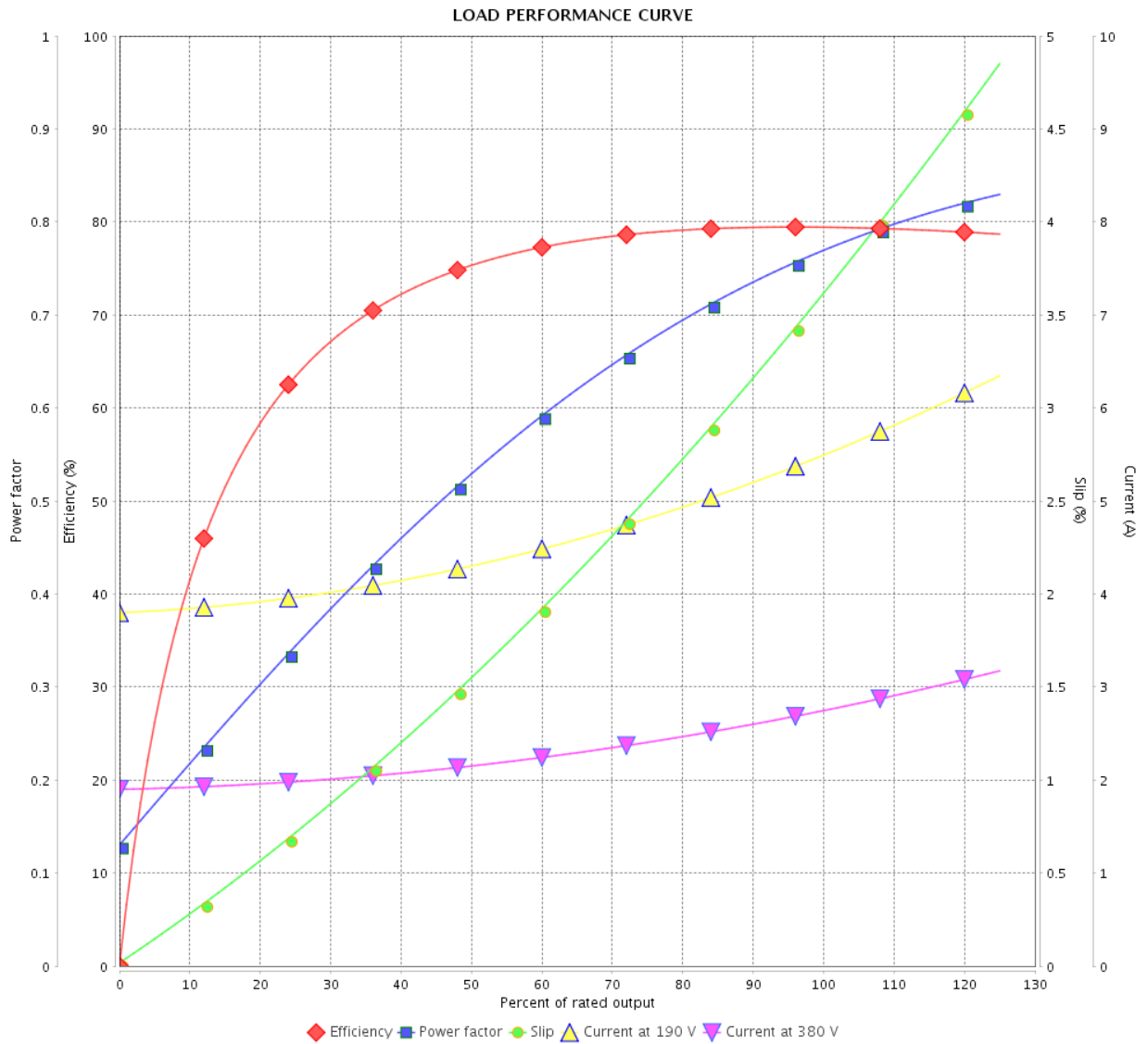
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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Standard Efficiency Three-Phase Product code : 13484853



Performance : 190/380 V 50 Hz 4P

Rated current : 5.46/2.73 A
 LRC : 6.6
 Rated torque : 0.753 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 280 %
 Rated speed : 1445 rpm

Moment of inertia (J) : 0.0044 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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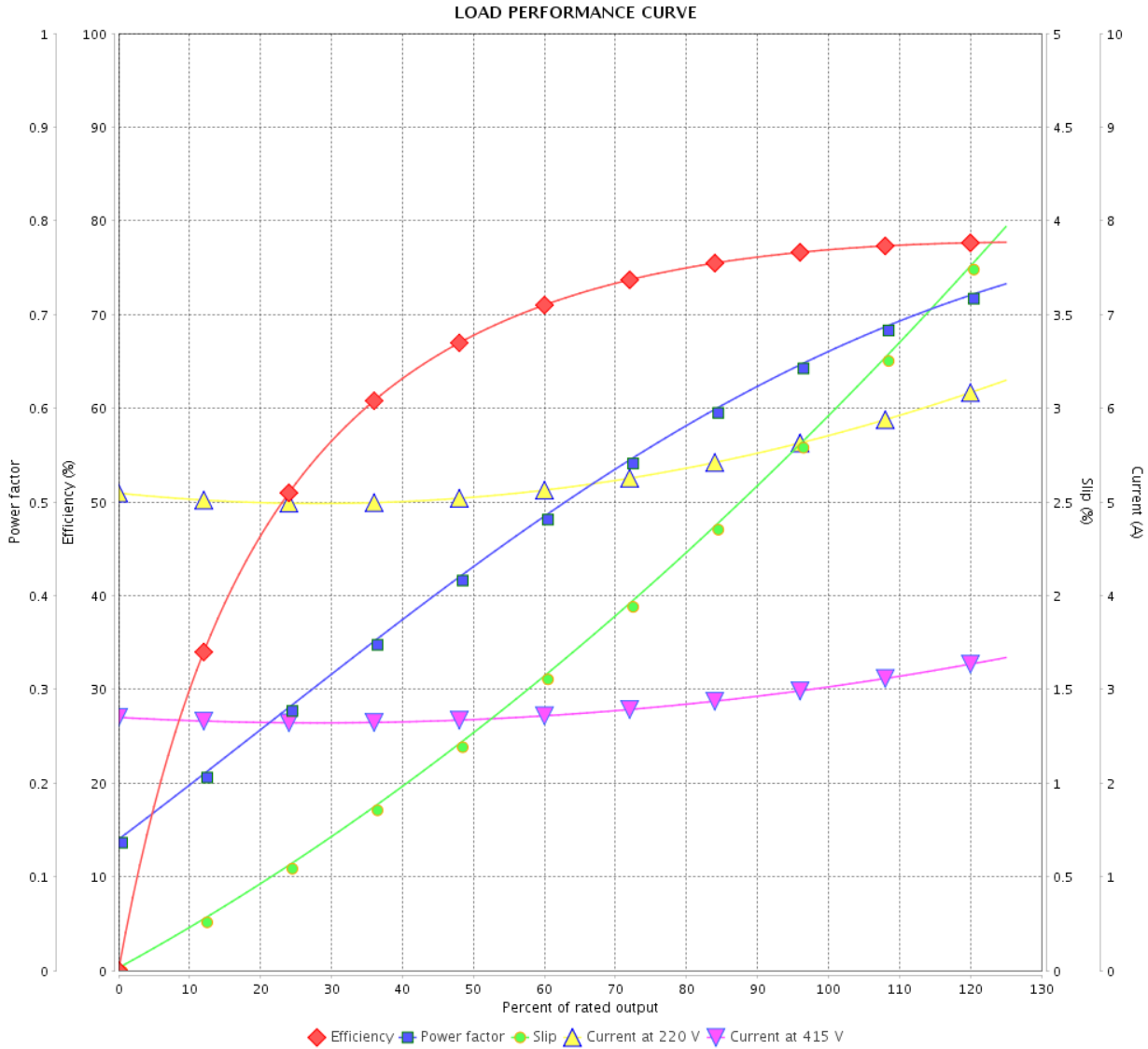
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13484853



Performance : 220/415 V 50 Hz 4P

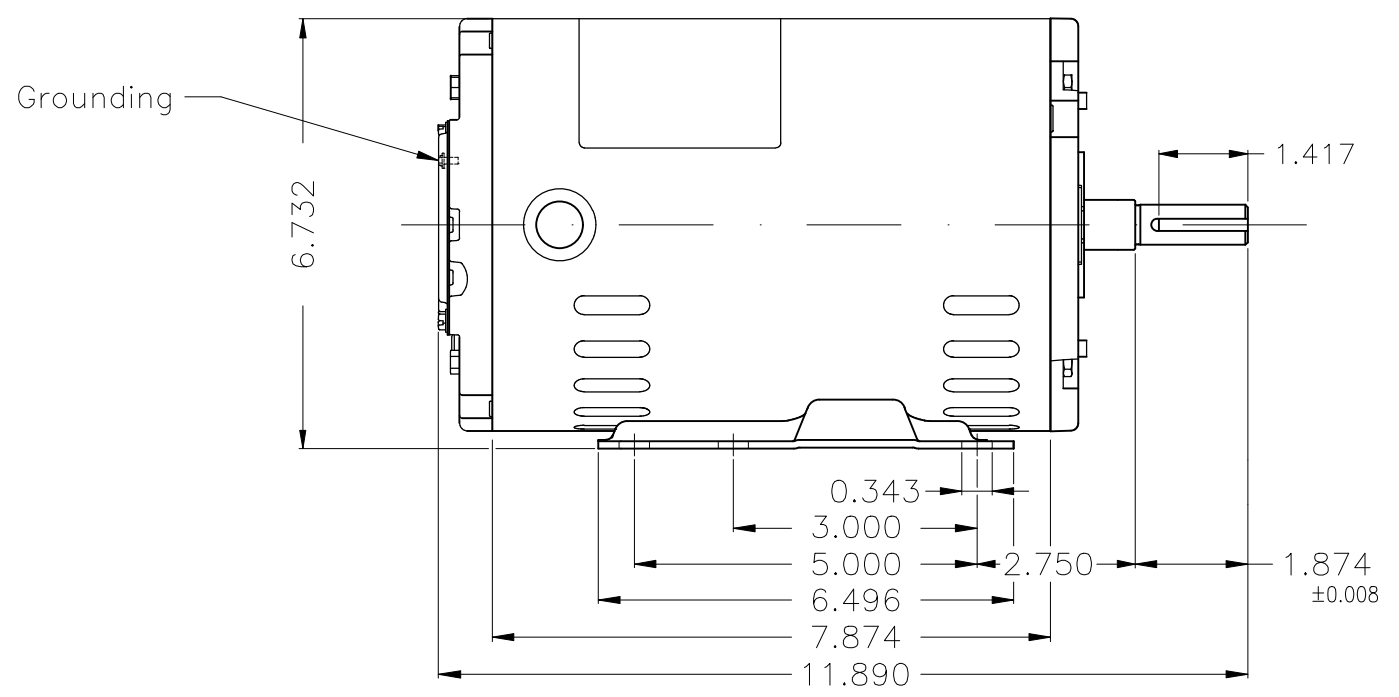
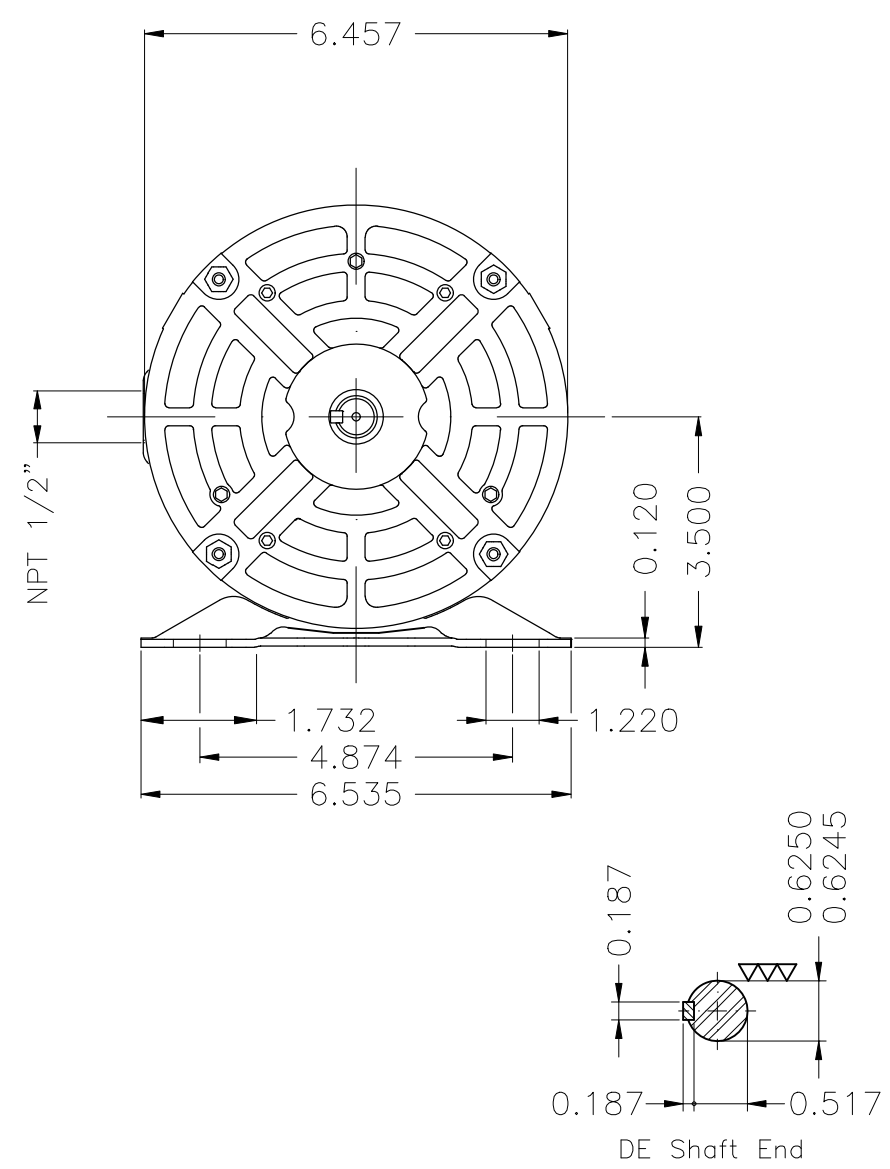
Rated current : 5.70/3.02 A
 LRC : 6.7
 Rated torque : 0.748 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 340 %
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.0044 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K
 Design : A

| Rev. | Changes Summary | Performed | Checked | Date |
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| 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 | | | | PREVIEW | | | WDD 00 SHEET 1 / 1 |
| CHECKED | | FRAME 56H IP21 ODP | | | | | | | |
| RELEASED | | | | | | | | | |
| REL. DATE | | WMO | Jaragua do Sul | Product Engineering | | | | | |

2 HP 04 Poles 60 Hz

A