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# Customer information packet

## ECS100T4H7FB4

7.5HP, 1800RPM, 3PH, 60HZ, 213TC, TEFC, TOP

Class - None

Division - Not Applicable

## Specifications

|                                |                           |
|--------------------------------|---------------------------|
| Enclosure                      | TEFC                      |
| Frame                          | 213TC                     |
| Frame Material                 | Steel                     |
| Frequency                      | 60.00 Hz                  |
| Haz Area Class and Group       | None                      |
| Haz Area Division              | Not Applicable            |
| Motor Letter Type              | Three Phase               |
| Output @ Frequency             | 7.500 HP @ 60 HZ          |
| Phase                          | 3                         |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ          |
| Voltage @ Frequency            | 460.0 V @ 60 HZ           |
| Agency Approvals               | UL<br>WEEE                |
| Ambient Temperature            | 40 °C                     |
| Auxillary Box                  | No Auxillary Box          |
| Auxillary Box Lead Termination | None                      |
| Base Indicator                 | Rigid                     |
| Bearing Grease Type            | Polyrex EM (-20F +300F)   |
| Blower                         | None                      |
| Constant Torque Speed Range    | 6                         |
| Current @ Voltage              | 8.700 A @ 460.0 V         |
| Drip Cover                     | No Drip Cover             |
| Duty Rating                    | CONT                      |
| Efficiency @ 100% Load         | 94.7 %                    |
| Electrically Isolated Bearing  | Not Electrically Isolated |
| Feedback Device                | NO FEEDBACK               |
| Heater Indicator               | No Heater                 |
| High Voltage Full Load Amps    | 8.7 a                     |
| Insulation Class               | F                         |
| Inverter Code                  | Inverter Duty             |
| IP Rating                      | NONE                      |
| Lifting Lugs                   | Standard Lifting Lugs     |

## Part detail

|              |                     |
|--------------|---------------------|
| Revision     | F                   |
| Type         | AC                  |
| Mech. spec.  |                     |
| Base         |                     |
| Status       | PRD/A               |
| Elec. spec.  | 37WGA0020           |
| Layout       | 37LYQ485            |
| Eff. date    | 07-09-2024          |
| CD Diagram   | CD0006B03           |
| Poles        | 04                  |
| Leads        | 3#12 19" LONG LEADS |
| Proprietary  | False               |
| Created date | 08-31-2020          |

|                                   |                     |
|-----------------------------------|---------------------|
| <b>Locked Bearing Indicator</b>   | Locked Bearing      |
| <b>Motor Lead Termination</b>     | Flying Leads        |
| <b>Motor Standards</b>            | NEMA                |
| <b>Motor Type</b>                 | 3730B               |
| <b>Mounting Arrangement</b>       | F1                  |
| <b>Number of Poles</b>            | 4                   |
| <b>Overall Length</b>             | 18.84 IN            |
| <b>Power Factor</b>               | 92                  |
| <b>Product Family</b>             | General Purpose     |
| <b>Pulley Face Code</b>           | C-Face              |
| <b>Rodent Screen</b>              | None                |
| <b>Service Factor</b>             | 1.00                |
| <b>Shaft Diameter</b>             | 1.375 IN            |
| <b>Shaft Ground Indicator</b>     | Shaft Grounding     |
| <b>Shaft Rotation</b>             | Reversible          |
| <b>Speed</b>                      | 1800 rpm            |
| <b>Speed Code</b>                 | Single Speed        |
| <b>Starting Method</b>            | Direct on line      |
| <b>Thermal Device - Bearing</b>   | None                |
| <b>Thermal Device - Winding</b>   | None                |
| <b>Vibration Sensor Indicator</b> | No Vibration Sensor |
| <b>Winding Thermal 1</b>          | None                |
| <b>Winding Thermal 2</b>          | None                |

Nameplate

| NP3978A01 |  |          |              |   |    |    |  |     |  |
|-----------|--|----------|--------------|---|----|----|--|-----|--|
| PART NO.  |  | ECI4A9P5 |              |   |    |    |  |     |  |
| U1        |  | 480      | PH           | 3 | HZ | 60 |  |     |  |
| I1        |  | 9.5      | W/EXT. CHOKE |   |    |    |  | 7.6 |  |
| SERIAL #  |  |          |              |   |    |    |  |     |  |

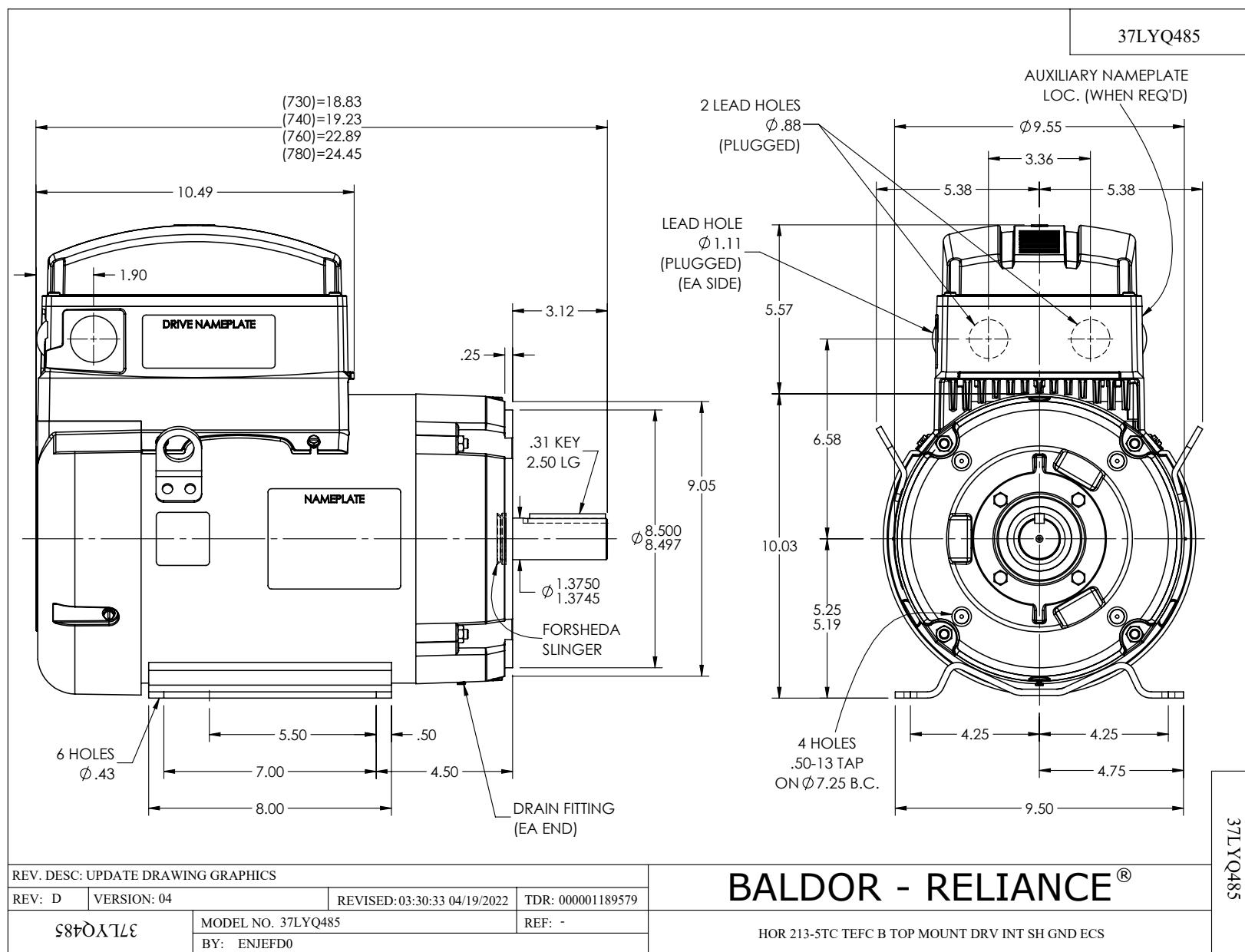
## NP3968A01A01

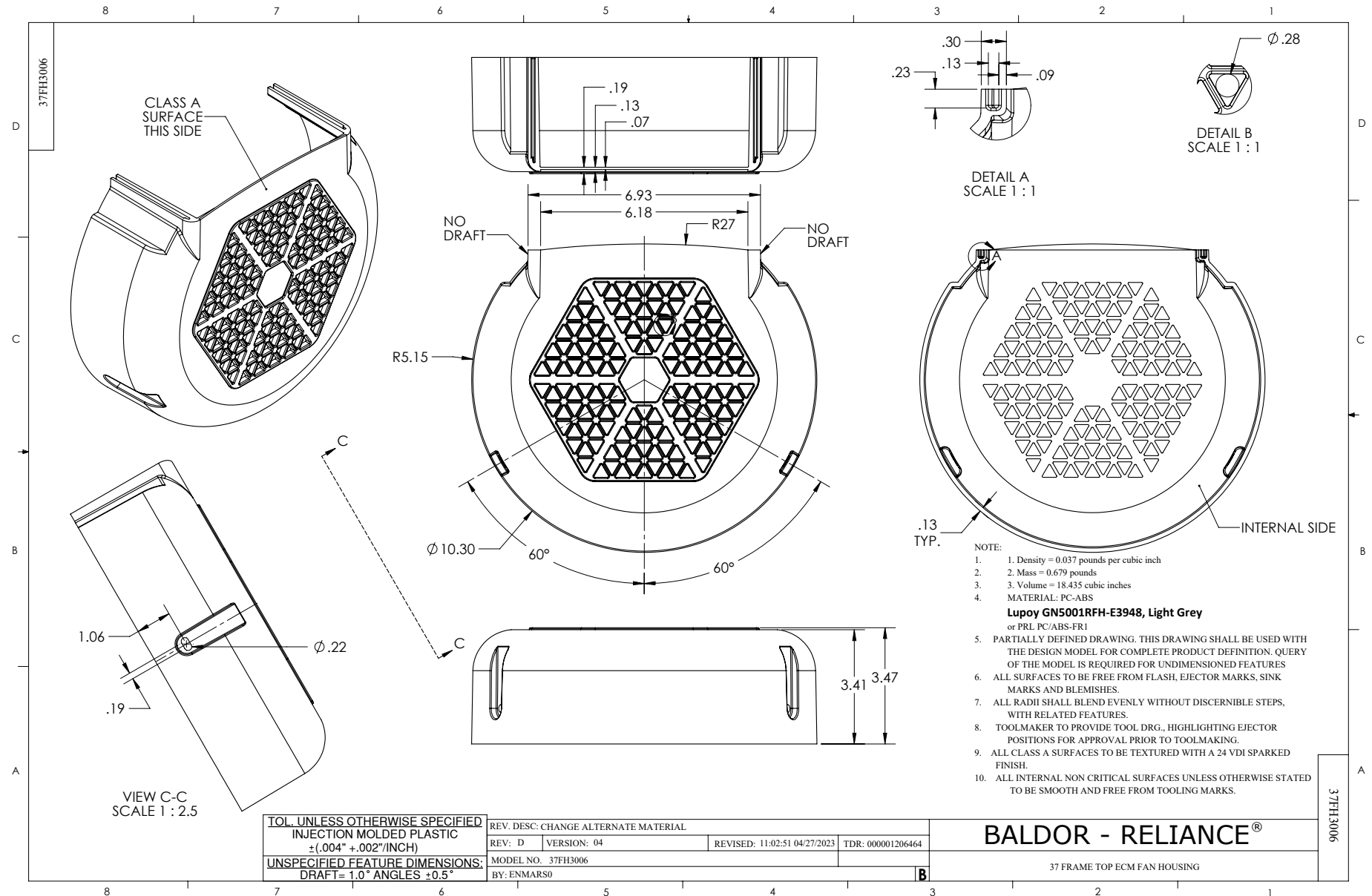
|             |               |    |     |           |         |       |      |        |        |    |
|-------------|---------------|----|-----|-----------|---------|-------|------|--------|--------|----|
| CAT.NO.     | ECS100T4H7FB4 |    |     |           |         |       |      |        |        |    |
| SPEC.       | 37-0001565    |    |     |           |         |       |      |        |        |    |
| FRAME       | 213TC         |    |     | ENCL.     |         | TEFC  |      | IP     |        | 54 |
| HP          | 7.5           |    | 40  | C AMB     |         |       | CONT |        |        |    |
| NOM. EFF.   | 94.7          |    | PF  | 92        |         | SF    |      | 1      |        |    |
| VOLTS       | 460           |    |     | FLA       |         | 8.874 |      |        |        |    |
| RPM         | 1800          |    |     | RPM-MAX   |         |       | 3000 |        |        |    |
| HZ          | 60            |    | PH. | 3         | CLASS   |       |      | F      |        |    |
| BEMF (V)    | 225           |    |     | RS (OHMS) |         |       |      | 1.39   |        |    |
| LD (MH)     | 28.09         |    |     |           | LQ (MH) |       |      | 80.586 |        |    |
| VPWM        | CHP           |    | 60  | TO        |         | 100   |      |        |        |    |
| CT          | 6             | TO |     | 60        |         | VT    |      | 1      | TO 100 |    |
| MATCHED INV | ECI4A9P5      |    |     |           |         |       |      |        |        |    |
| DE          | 6307          |    |     | ODE       |         | 6206  |      |        |        |    |
| SERIAL #    |               |    |     |           |         |       |      |        |        |    |

## Parts list

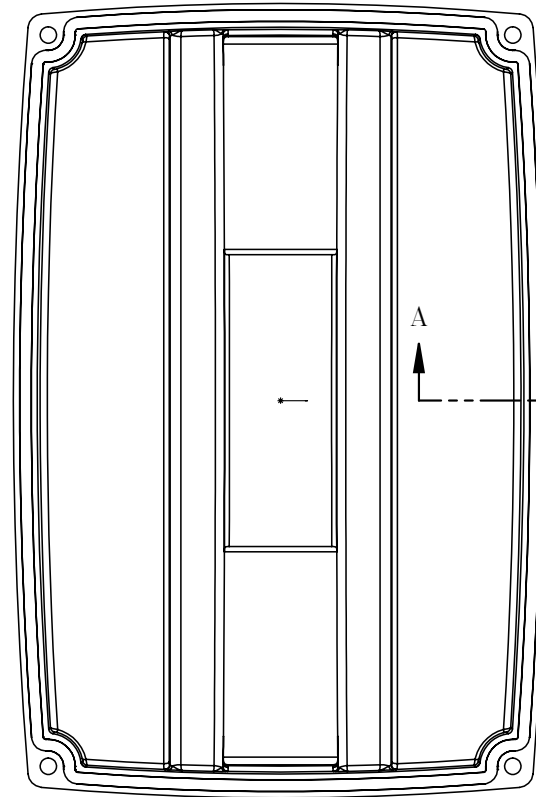
| Part number   | Description                              | Quantity |
|---------------|------------------------------------------|----------|
| SA385228      | SA 37-0001565                            | 1.000 ea |
| RA375470      | RA 37-0001565                            | 1.000 ea |
| NP3978A01     | MYLAR BALDOR-RELIANCE SYNC IPM DRIVE 4.3 | 1.000 ea |
| NP3968A01A01  | NP LABEL WEE, SH GND, C-UL-US, QR, ECS   | 1.000 ea |
| MN451         | EC Titanium Quick Start 04/20            | 1.000 ea |
| 37FH3006      | 37 FRAME TOP ECM FAN HOUSING             | 1.000 ea |
| 51XW1032A06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 2.000 ea |
| 37FN3002A01SP | EXFN, PLASTIC, 9.00 OD, 1.155 ID         | 1.000 ea |
| 51XB1214A20   | 12-14X1.25 HXWSSLD SERTYB                | 1.000 ea |
| MJ1000A02     | GREASE, POLYREX EM EXXON                 | 0.050 lb |
| HA3104A14     | THRUBOLT- 5/16-18 X12.125(OHIO)          | 4.000 ea |
| XY3118A12     | 5/16-18 HEX NUT DIRECTIONAL SERRATION    | 1.000 ea |
| 37EP3101A04   | FR ENDPLATE, MACH                        | 1.000 ea |
| HW5100A06     | W2420-025 WVY WSHR (WB)                  | 1.000 ea |
| HA4067A01     | PUSH IN DRAIN FITTING (BLACK)            | 1.000 ea |
| HS0055A00     | 37 FRAME TOP ECM HEATSINK MACHINING      | 1.000 ea |
| 36CB3501A00   | 36&37 FRAME TOP ECM PLASTIC COVER WITH F | 1.000 ea |
| GS0024        | ECM GASKET,36 TOP MOUNT,HEATSINK TO FRAM | 1.000 ea |
| 51XB1016A07   | 10-16 X 7/16 HXWSSLD SERTYB              | 4.000 ea |
| 15XN1032A10   | SCREW PAN HD 10-32 X .625 (PHILLIPS)     | 4.000 ea |
| 37EP3300A05   | FACE MT EP-ENCL-307 BRG-213TC-215TC LESS | 1.000 ea |
| 10XN2520A30   | HEX HD CAP SCREW-STD THD-.25 X 20 THD PE | 4.000 ea |
| HW1001A25     | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 ea |
| HA4067A01     | PUSH IN DRAIN FITTING (BLACK)            | 1.000 ea |
| WD4100A30     | HEYCO #3833 RUBBER PLUG KOS-LT - 1/2     | 2.000 ea |
| WD4100A66     | HEYCO #3835 KNOCKOUT PLUG(KOS-LT 3/4) BL | 2.000 ea |
| ECI4A9P5SP    | 380-480V, 5.0HP, 9.5A, W/BK CHOP, RTC, B | 1.000 ea |
| MG1050G01     | CELEROL MEDIUM CHARCOAL METALLIC GRAY    | 0.022 ga |
| MJ5002A02     | NON-CORROSIVE SILICONE, DOW 748, 10.3 OZ | 0.001 ea |
| 07PA1029      | PACKAGING GROUPCRATE (07 TALL CRATE)     | 1.000 ea |
| HW2501F22     | KEY, 5/16 SQ X 2.500                     | 1.000 ea |

|            |                                          |          |
|------------|------------------------------------------|----------|
| HA7000A02  | KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA  | 1.000 ea |
| FE-0000001 | ZRTG FE ASSEMBLY                         | 1.000 ea |
| LB1602     | LABEL, LIFTING DEVICE REQUIRING SPREADER | 1.000 ea |
| HW4600C51  | 31X39X7.5MM FACE SEAL FOR 1.375 DIA. SH  | 1.000 ea |
| PE-0000001 | ZRTG PE ASSEMBLY                         | 1.000 ea |

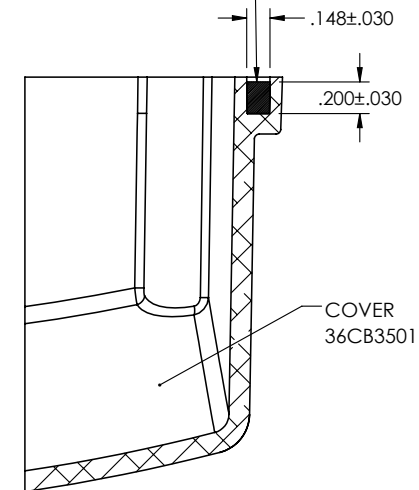




36CB3501A00



MATERIAL: RAMPF, RAKU-PUR 32-3280-51L



SECTION A-A

REV. DESC: UPDATE MATERIAL

REV: A

VERSION: 01

REVISED: 10:46:37 03/29/2019

TDR: 000001101646



MODEL NO. 36CB3501A00

REF: -

BY: ENMARS0

Material: -

BALDOR - RELIANCE®

36 &amp; 37 FRAME TOP ECM COVER WITH FOAM SEAL

36CB3501A00

