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# Customer information packet

## ECS100T2H1DC4

1HP, 1800RPM, 3PH, 60HZ, 145TC, 3516B, TEFC, F1

PFC EQUIPMENT INC

Class - None

Division - Not Applicable

## Specifications

|                                |                                |
|--------------------------------|--------------------------------|
| Enclosure                      | TEFC                           |
| Frame                          | 145TC                          |
| Frame Material                 | Steel                          |
| Frequency                      | 60.00 Hz                       |
| Haz Area Class and Group       | None                           |
| Haz Area Division              | Not Applicable                 |
| Motor Letter Type              | Brushless Wound Field PM Rotor |
| Output @ Frequency             | 1.000 HP @ 60 HZ               |
| Phase                          | 3                              |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ               |
| Voltage @ Frequency            | 230.0 V @ 60 HZ                |
| Agency Approvals               | BLUETOOTH<br>CULUS<br>WEEE     |
| Ambient Temperature            | 40 °C                          |
| Auxillary Box                  | No Auxillary Box               |
| Auxillary Box Lead Termination | None                           |
| Base Indicator                 | No Mounting                    |
| Bearing Grease Type            | Polyrex EM (-20F +300F)        |
| Blower                         | None                           |
| Constant Torque Speed Range    | 6                              |
| Current @ Voltage              | 2.500 A @ 230.0 V              |
| Design Code                    | -                              |
| Drip Cover                     | No Drip Cover                  |
| Duty Rating                    | CONT                           |
| Efficiency @ 100% Load         | 91.0 %                         |
| Electrically Isolated Bearing  | Not Electrically Isolated      |
| Feedback Device                | NO FEEDBACK                    |
| Heater Indicator               | No Heater                      |
| High Voltage Full Load Amps    | 2.5 a                          |
| Insulation Class               | F                              |
| Inverter Code                  | 03                             |

## Part detail

|              |                       |
|--------------|-----------------------|
| Revision     | B                     |
| Type         | AC                    |
| Mech. spec.  | 35E5353               |
| Base         |                       |
| Status       | PRD/A                 |
| Elec. spec.  | 35WGG932              |
| Layout       | 35LYE5353             |
| Eff. date    | 09-10-2024            |
| CD Diagram   | CD0006B03             |
| Poles        | 04                    |
| Leads        | 3#14 13" LONG LEADS Y |
| Proprietary  | False                 |
| Created date | 05-08-2024            |

|                               |                     |
|-------------------------------|---------------------|
| KVA Code                      | -                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | Locked Bearing      |
| Motor Lead Quantity/Wire Size | 3 @ 14 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3516B               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 4                   |
| Overall Length                | 12.38 IN            |
| Power Factor                  | 98                  |
| Product Family                | General Purpose     |
| Pulley Face Code              | C-Face              |
| Rodent Screen                 | None                |
| Service Factor                | 1.00                |
| Shaft Diameter                | 0.875 IN            |
| Shaft Ground Indicator        | Shaft Grounding     |
| Shaft Rotation                | Reversible          |
| Speed                         | 1800 rpm            |
| Speed Code                    | Single Speed        |
| Starting Method               | Direct on line      |
| Thermal Device - Bearing      | None                |
| Thermal Device - Winding      | None                |
| Vibration Sensor Indicator    | No Vibration Sensor |
| Winding Thermal 1             | None                |
| Winding Thermal 2             | None                |

## Nameplate

| NP3968A01A01 |               |    |         |           |         |      |    |     |     |  |
|--------------|---------------|----|---------|-----------|---------|------|----|-----|-----|--|
| CAT.NO.      | ECS100T2H1DC4 |    |         |           |         |      |    |     |     |  |
| SPEC.        | 35E5353G932   |    |         |           |         |      |    |     |     |  |
| FRAME        | 145TC         |    |         | ENCL.     |         | TEFC |    | IP  | 54  |  |
| HP           | 1             | 40 | C AMB   |           |         | CONT |    |     |     |  |
| NOM. EFF.    | 91            | PF | 98      | SF        |         | 1    |    |     |     |  |
| VOLTS        | 230           |    |         | FLA       |         | 2.5  |    |     |     |  |
| RPM          | 1800          |    | RPM-MAX |           |         | 4000 |    |     |     |  |
| HZ           | 60            |    | PH.     | 3         | CLASS   |      | F  |     |     |  |
| BEMF (V)     | 135           |    |         | RS (OHMS) |         |      |    |     | 4.9 |  |
| LD (MH)      | 30.8          |    |         |           | LQ (MH) |      |    | 135 |     |  |
| VPWM         | CHP           | 60 | TO      |           | 133     |      |    |     |     |  |
| CT           | 6             | TO | 60      | VT        |         | 6    | TO | 60  |     |  |
| MATCHED INV  | ECI2A4P3      |    |         |           |         |      |    |     |     |  |
| DE           | 6205          |    |         | ODE       |         | 6203 |    |     |     |  |
| SERIAL #     |               |    |         |           |         |      |    |     |     |  |

| NP3978A01 |          |              |   |    |    |   |
|-----------|----------|--------------|---|----|----|---|
| PART NO.  | ECI2A4P3 |              |   |    |    |   |
| U1        | 240      | PH           | 3 | HZ | 60 |   |
| I1        | 3.6      | W/EXT. CHOKE |   |    |    | 3 |
| SERIAL #  |          |              |   |    |    |   |

## Parts list

| Part number   | Description                                 | Quantity |
|---------------|---------------------------------------------|----------|
| SA428003      | SA 35E5353G932                              | 1.000 ea |
| RA420158      | RA 35E5353G932                              | 1.000 ea |
| ECI2A4P3SP    | 200-400V, 1.0HP, 4.3A, NO BK CHOP, RTC,     | 1.000 ea |
| HS0052A00     | 35 FRAME TOP ECM HEATSINK MACHINING         | 1.000 ea |
| GS0025        | 35 FRAME TOP MOUNT GASKET                   | 1.000 ea |
| WD4100A30     | HEYCO #3833 RUBBER PLUG KOS-LT - 1/2        | 4.000 ea |
| 51XB1016A07   | 10-16 X 7/16 HXWSSLD SERTYB                 | 4.000 ea |
| 35EP3122K00   | MASTER ODE,203 BRG, .683SH, #26 DRN, FH MTG | 1.000 ea |
| 15XN0832A12   | SCREW, 8/32 X 3/4" PAN HDPHIL, MS           | 3.000 ea |
| HA4067A01     | PUSH IN DRAIN FITTING (BLACK)               | 1.000 ea |
| HW5100A03     | WAVY WASHER (W1543-017)                     | 1.000 ea |
| 35EP3307F11   | F00 W/SLINGER                               | 1.000 ea |
| HW4600B32SP   | V-RING SLINGER 1.000 X 1.540 X .24 VITON    | 1.000 ea |
| 51XN1032A18   | 10-32 X 1 1/8 HX WS SL SR (ESKAY)           | 2.000 ea |
| HA4067A01     | PUSH IN DRAIN FITTING (BLACK)               | 1.000 ea |
| 51XW1032A06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S    | 2.000 ea |
| 15XN1032A10   | SCREW PAN HD 10-32 X .625 (PHILLIPS)        | 4.000 ea |
| HW2501D13     | KEY, 3/16 SQ X 1.375                        | 1.000 ea |
| HA7000A01     | KEY RETAINER 7/8" DIA SHAFT                 | 1.000 ea |
| MJ1000A02     | GREASE, POLYREX EM EXXON                    | 0.050 lb |
| 35FN3002A05SP | EXFN, PLASTIC, 6.376 OD, .638 ID            | 1.000 ea |
| 51XB1214A16   | 12-14X1.00 HXWSSLD SERTYB                   | 1.000 ea |
| 35CB3505A00   | 35 FRAME TOP ECM PLASTIC COVER WITH FOAM    | 1.000 ea |
| HA3100A12     | THRUBOLT 10-32 X 7.375                      | 4.000 ea |
| MG1050G01     | CELEROL MEDIUM CHARCOAL METALLIC GRAY       | 0.017 ga |
| MJ5002A02     | NON-CORROSIVE SILICONE, DOW 748, 10.3 OZ    | 0.001 ea |
| NP3968A01A01  | NP LABEL WEE, SH GND, C-UL-US, QR, ECS      | 1.000 ea |
| NP3978A01     | MYLAR BALDOR-RELIANCE SYNC IPM DRIVE 4.3    | 1.000 ea |
| GOPA1000      | PKG GRP, PRINT PK1026A06                    | 1.000 ea |
| MN451         | EC Titanium Quick Start 04/20               | 1.000 ea |
| PK3082        | STYROFOAM CRADLE                            | 1.000 ea |

FE-0000001

ZRTG FE ASSEMBLY

1.000 ea

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