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# Customer information packet

## ECS100T2H2DF4

2HP, 1800RPM, 3PH, 60HZ, 145T, 3524B, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                |
|--------------------------------|--------------------------------|
| Enclosure                      | TEFC                           |
| Frame                          | 145T                           |
| 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             | 2.000 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                 | Rigid                          |
| Bearing Grease Type            | Polyrex EM (-20F +300F)        |
| Blower                         | None                           |
| Constant Torque Speed Range    | 6                              |
| Current @ Voltage              | 4.800 A @ 230.0 V              |
| Design Code                    | -                              |
| Drip Cover                     | No Drip Cover                  |
| Duty Rating                    | CONT                           |
| Efficiency @ 100% Load         | 90.4 %                         |
| Electrically Isolated Bearing  | Not Electrically Isolated      |
| Feedback Device                | NO FEEDBACK                    |
| Heater Indicator               | No Heater                      |
| High Voltage Full Load Amps    | 4.8 a                          |
| Insulation Class               | F                              |
| Inverter Code                  | 03                             |

## Part detail

|              |                       |
|--------------|-----------------------|
| Revision     | C                     |
| Type         | AC                    |
| Mech. spec.  | 35E5209               |
| Base         |                       |
| Status       | PRD/A                 |
| Elec. spec.  | 35WGG964              |
| Layout       | 35LYE5209             |
| Eff. date    | 09-10-2024            |
| CD Diagram   | CD0006B03             |
| Poles        | 04                    |
| Leads        | 3#16 13" LONG LEADS Y |
| Proprietary  | False                 |
| Created date | 05-06-2024            |

|                                      |                     |
|--------------------------------------|---------------------|
| <b>KVA Code</b>                      | -                   |
| <b>Lifting Lugs</b>                  | No Lifting Lugs     |
| <b>Locked Bearing Indicator</b>      | Locked Bearing      |
| <b>Motor Lead Quantity/Wire Size</b> | 3 @ 16 AWG          |
| <b>Motor Lead Termination</b>        | Flying Leads        |
| <b>Motor Standards</b>               | NEMA                |
| <b>Motor Type</b>                    | 3524B               |
| <b>Mounting Arrangement</b>          | F1                  |
| <b>Number of Poles</b>               | 4                   |
| <b>Overall Length</b>                | 13.38 IN            |
| <b>Power Factor</b>                  | 93                  |
| <b>Product Family</b>                | General Purpose     |
| <b>Pulley Face Code</b>              | Standard            |
| <b>Rodent Screen</b>                 | None                |
| <b>Service Factor</b>                | 1.00                |
| <b>Shaft Diameter</b>                | 0.875 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**

| <b>NP3968A01A01</b> |               |           |                  |                |              |           |    |  |  |
|---------------------|---------------|-----------|------------------|----------------|--------------|-----------|----|--|--|
| <b>CAT.NO.</b>      | ECS100T2H2DF4 |           |                  |                |              |           |    |  |  |
| <b>SPEC.</b>        | 35E5209G964G3 |           |                  |                |              |           |    |  |  |
| <b>FRAME</b>        | 145T          |           | <b>ENCL.</b>     | TEFC           | <b>IP</b>    | 54        |    |  |  |
| <b>HP</b>           | 2             | 40        | <b>C AMB</b>     |                | <b>CONT</b>  |           |    |  |  |
| <b>NOM. EFF.</b>    | 91.3          | <b>PF</b> | 93               | <b>SF</b>      | 1.5          |           |    |  |  |
| <b>VOLTS</b>        | 230           |           | <b>FLA</b>       | 4.8            |              |           |    |  |  |
| <b>RPM</b>          | 1800          |           | <b>RPM-MAX</b>   | 4000           |              |           |    |  |  |
| <b>HZ</b>           | 60            |           | <b>PH.</b>       | 3              | <b>CLASS</b> | F         |    |  |  |
| <b>BEMF (V)</b>     | 148           |           | <b>RS (OHMS)</b> | 2.94           |              |           |    |  |  |
| <b>LD (MH)</b>      | 22.1          |           |                  | <b>LQ (MH)</b> | 97.1         |           |    |  |  |
| <b>VPWM</b>         | <b>CHP</b>    | 60        | <b>TO</b>        | 133            |              |           |    |  |  |
| <b>CT</b>           | 6             | <b>TO</b> | 60               | <b>VT</b>      | 6            | <b>TO</b> | 60 |  |  |
| <b>MATCHED INV</b>  | ECI2A7P0      |           |                  |                |              |           |    |  |  |
| <b>DE</b>           | 6205          |           | <b>ODE</b>       | 6203           |              |           |    |  |  |
| <b>SERIAL #</b>     |               |           |                  |                |              |           |    |  |  |

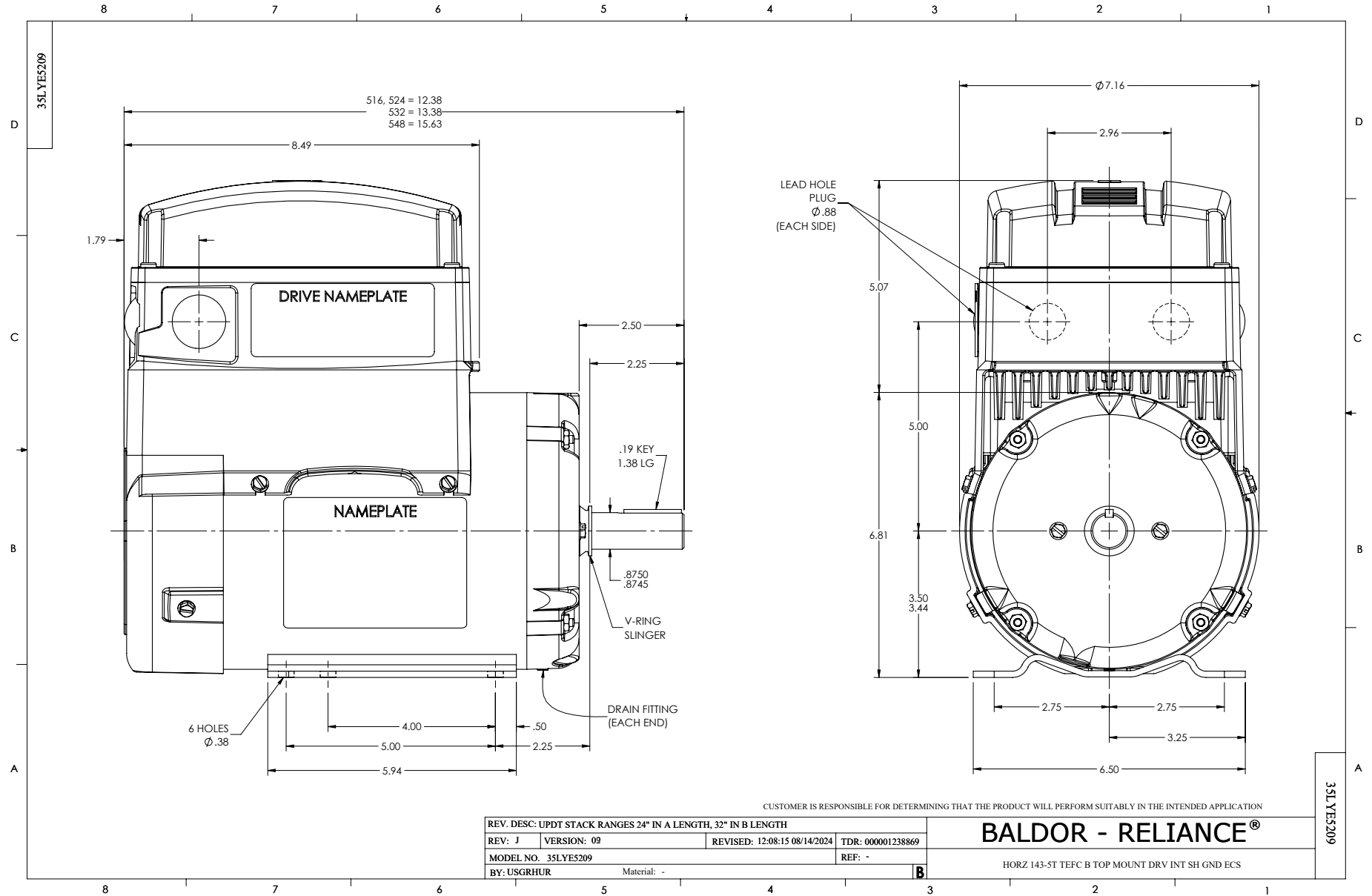
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**NP3978A01**

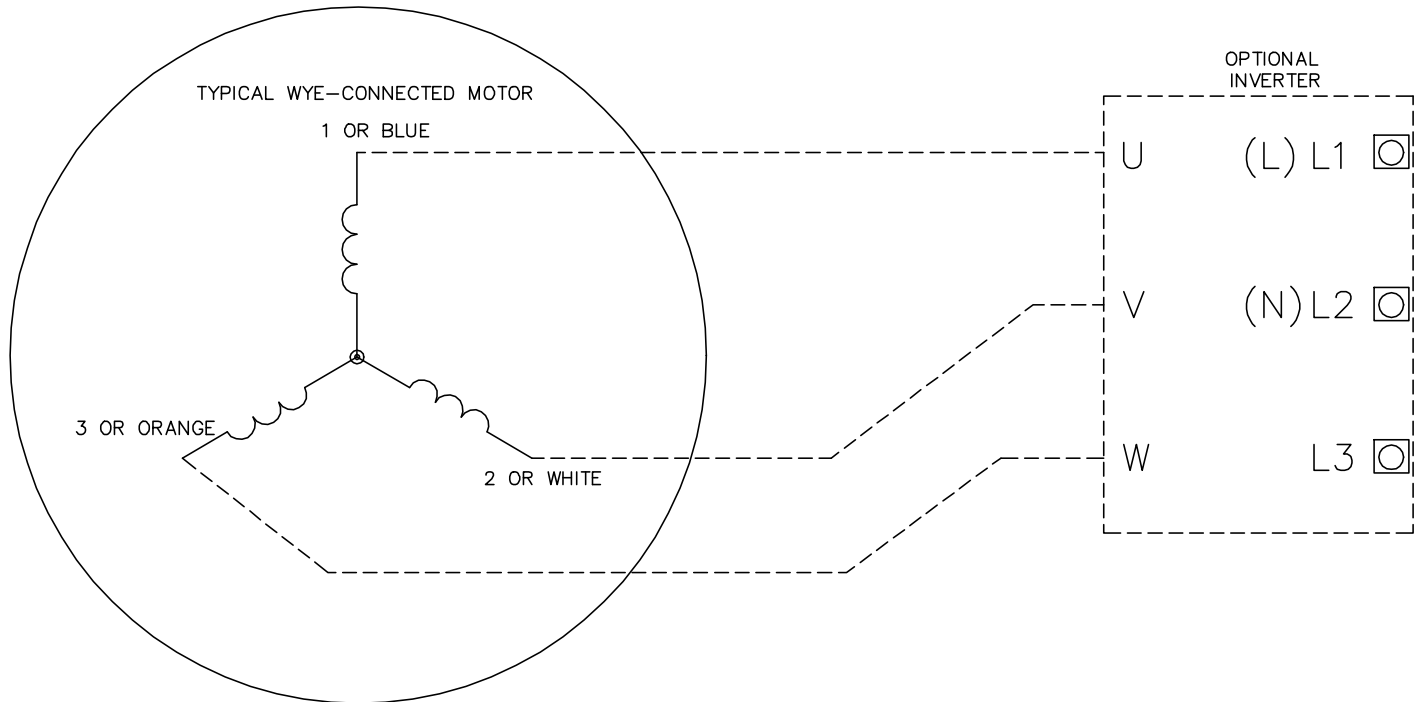
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|                 |          |                     |   |           |     |
|-----------------|----------|---------------------|---|-----------|-----|
| <b>PART NO.</b> | ECI2A7P0 |                     |   |           |     |
| <b>U1</b>       | 240      | <b>PH</b>           | 3 | <b>HZ</b> | 60  |
| <b>I1</b>       | 6.2      | <b>W/EXT. CHOKE</b> |   |           | 5.9 |
| <b>SERIAL #</b> |          |                     |   |           |     |

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CD0006B03



NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.

CD0006B03

|  |                              |                   |
|--|------------------------------|-------------------|
| REV. DESC: CHANGE LEAD COLORS TO BLUE WHITE ORANGE |                              |                   |
| REV. LTR: A  | VERSION: 01                  | TDR: 000001158598 |
| FILE: \AAA\00252\917                               | REVISED: 11:01:03 01/19/2021 | BY: ENMARSO       |
| MTL: -   | © □                          |                   |

**BALDOR - RELIANCE®**

3PH, SV, 3 LEADS, WYE CONNECTED, ECS

SH 1 of 1