ABB BALDOR RELIANCE

# Customer information packet

## ECS101M0H2DB4

2HP, 1800RPM, 3PH, 60HZ, 145TC, 3524B, TEFC, F1
Class - None
Division - Not Applicable

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11/5/2026 9:27:10 AM

## 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** | 2.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | WEEE |
| | CULUS |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Auxiliary Box Lead Termination** | None |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Constant Torque Speed Range** | 6 |
| **Current @ Voltage** | 1.500 A @ 460.0 V |
| | 3.000 A @ 230.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 88.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 1.5 a |
| **Insulation Class** | F |

## Part Detail

| | |
|---|---|
| **Revision** | C |
| **Type** | AC |
| **Mech. spec.** | 35E5263 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGG983 |
| **Layout** | 35LYE5263 |
| **Eff. date** | 02-12-2026 |
| **CD Diagram** | CD0005A25 |
| **Poles** | 04 |
| **Leads** | 9#16 Y |
| **Proprietary** | False |
| **Created date** | 03-15-2024 |

| | |
|---|---|
| **Inverter Code** | Inverter Duty |
| **KVA Code** | N |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Quantity/Wire Size** | 9 @ 16 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3524B |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 13.29 IN |
| **Power Factor** | 93 |
| **Product Family** | General Purpose |
| **Pulley Face Code** | C-Face |
| **Rodent Screen** | None |
| **RoHS Status** | Y |
| **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.** | ECS101M0H2DB4 | | | | | | | |
| **SPEC.** | 35E5263G983 | | | | | | | |
| **FRAME** | 145TC | | | **ENCL.** | TEFC | **IP** | 54 | |
| **HP** | 2 | | 40 | **C AMB** | | CONT | | |
| **NOM. EFF.** | 91.9 | **PF** | 93 | | **SF** | 1.5 | | |
| **VOLTS** | 230/460 | | | **FLA** | 4.4/2.2 | | | |
| **RPM** | 1800 | | | **RPM-MAX** | 4000 | | | |
| **HZ** | 60 | | **PH.** | 3 | **CLASS** | F | | |
| **BEMF (V)** | 148/296 | | | | **RS (OHMS)** | 2.9/11.7 | | |
| **LD (MH)** | 19.7/78.9 | | | | **LQ (MH)** | 101.5/406 | | |
| **VPWM** | **CHP** | 60 | **TO** | 133 | | | | |
| **CT** | 6 | **TO** | 60 | **VT** | 6 | **TO** | 60 | |
| **MATCHED INV** | ACS380-04XX-04A8-1 / 02A6-4 | | | | | | | |
| **DE** | 6205 | | | **ODE** | 6203 | | | |
| **SERIAL #** | | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Volts | 460 | Max RPM | 4000 | Conn Diag. | CD0006B03 | Leads | 3 |
| Amps | 1.75 | Max Amps | | Cs Diagram | CS1126 | BEMF | 296 |
| HP | 2 | VFD# | ECIN4A2P2 | | | LD | 78.9 |
| RPM | 1800 | S.F. | 1.00 | | | LQ | 406 |
| Phase/Hz | 3/60 | Rating | 50C AMB-CONT | | | Rs | 11.7741 Meas. L-L |

## 60034-2-3 Motor Performance at Standardized Operating Points

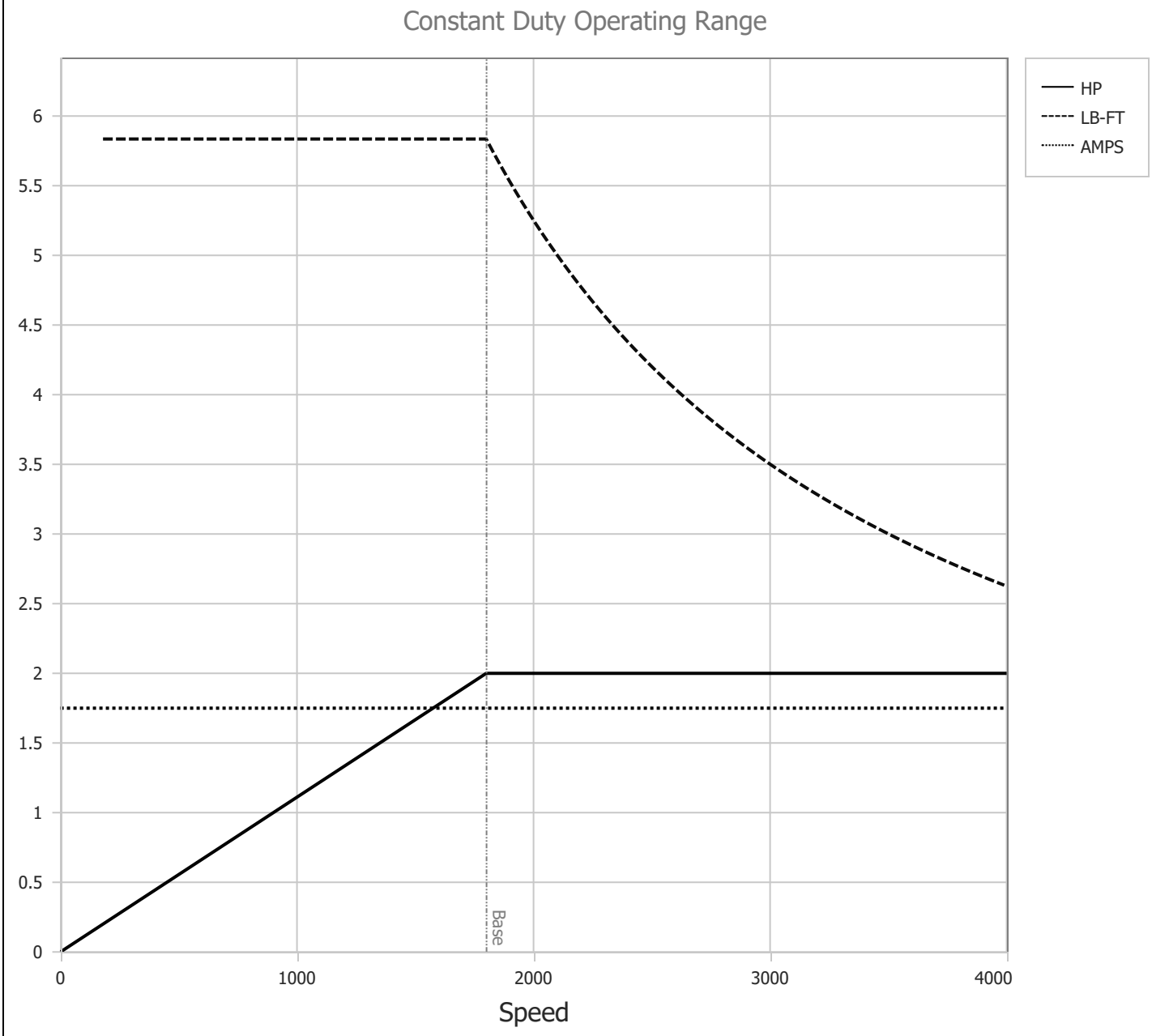
| | RPM | % Speed | LB-FT | % Torque | HP | Efficiency | Loss (% FL) | Watts Loss (W) |
|---|---|---|---|---|---|---|---|---|
| P1 | 1622 | 90% | 5.8 | 100% | 1.8 | 91.2 | 8.59% | 130 |
| P2 | 895 | 50% | 5.8 | 100% | 1.0 | 86.9 | 7.45% | 112 |
| P3 | 448 | 25% | 5.8 | 100% | 0.5 | 80.2 | 6.10% | 92 |
| P4 | 1623 | 90% | 2.9 | 50% | 0.9 | 91.7 | 4.08% | 62 |
| P5 | 900 | 50% | 2.9 | 50% | 0.5 | 89.7 | 2.85% | 43 |
| P6 | 898 | 50% | 1.5 | 25% | 0.2 | 88.8 | 1.56% | 24 |
| P7 | 445 | 25% | 1.5 | 25% | 0.1 | 84.8 | 1.11% | 17 |

## 61800-9-2 PDS Performance at Reference Operating Points

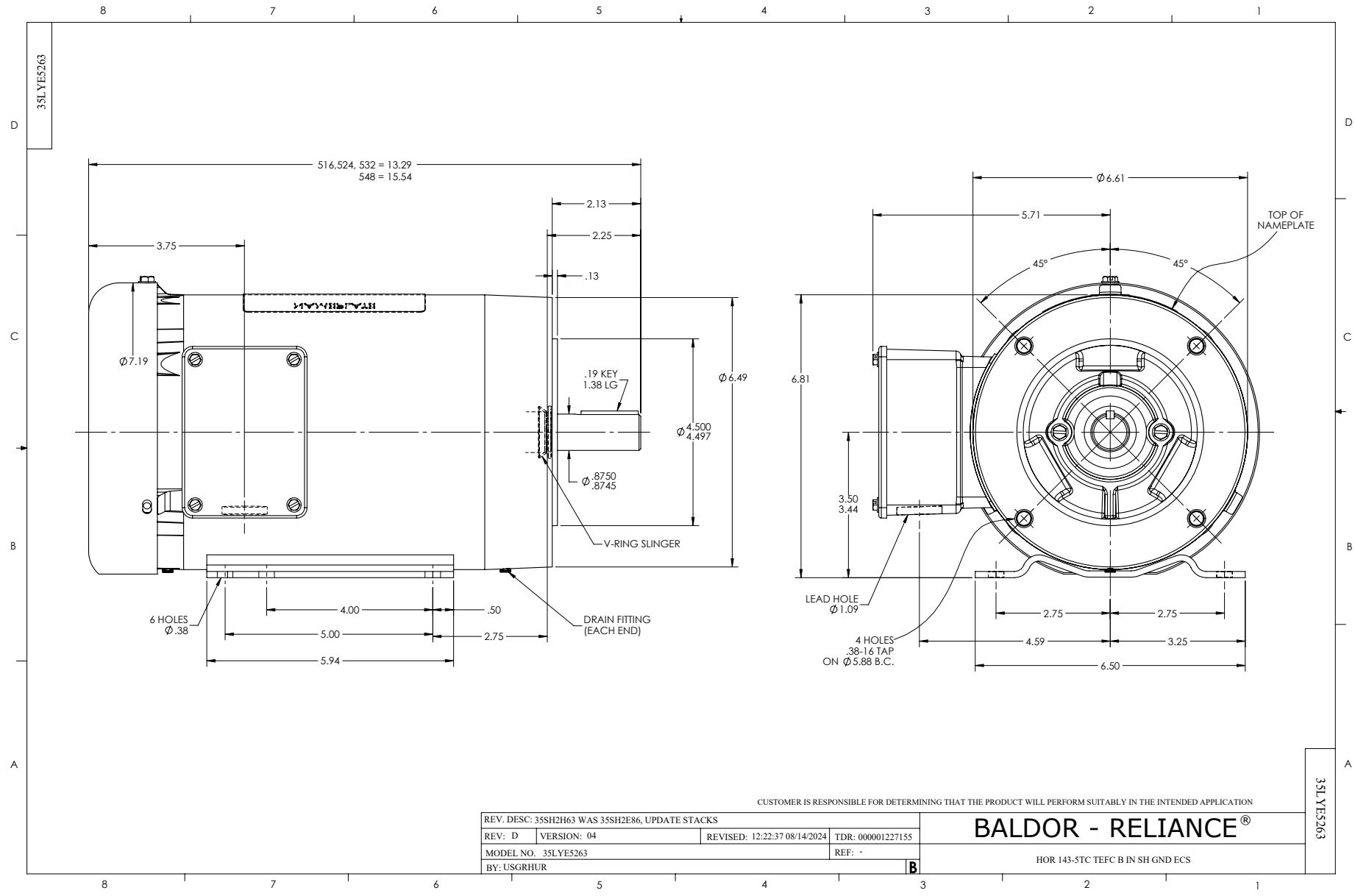
| | RPM | % Speed | LB-FT | % Torque | HP | System Efficiency | Loss (% FL) | Watts Loss (W) |
|---|---|---|---|---|---|---|---|---|
| P1 | 1806 | 100% | 5.8 | 100% | 2.0 | 88.6 | 12.70% | 192 |
| P2 | 895 | 50% | 5.8 | 100% | 1.0 | 82.7 | 10.27% | 155 |
| P3 | 299 | 17% | 5.8 | 100% | 0.3 | 66.2 | 8.39% | 127 |
| P4 | 1807 | 100% | 2.9 | 50% | 1.0 | 89.0 | 6.15% | 93 |
| P5 | 900 | 50% | 2.9 | 50% | 0.5 | 83.4 | 4.92% | 74 |
| P6 | 300 | 17% | 2.9 | 50% | 0.2 | 66.8 | 4.10% | 62 |
| P7 | 898 | 50% | 1.5 | 25% | 0.2 | 78.9 | 3.30% | 50 |
| P8 | 298 | 17% | 1.5 | 25% | 0.1 | 60.7 | 2.65% | 40 |

*Points not taken in certified order.*

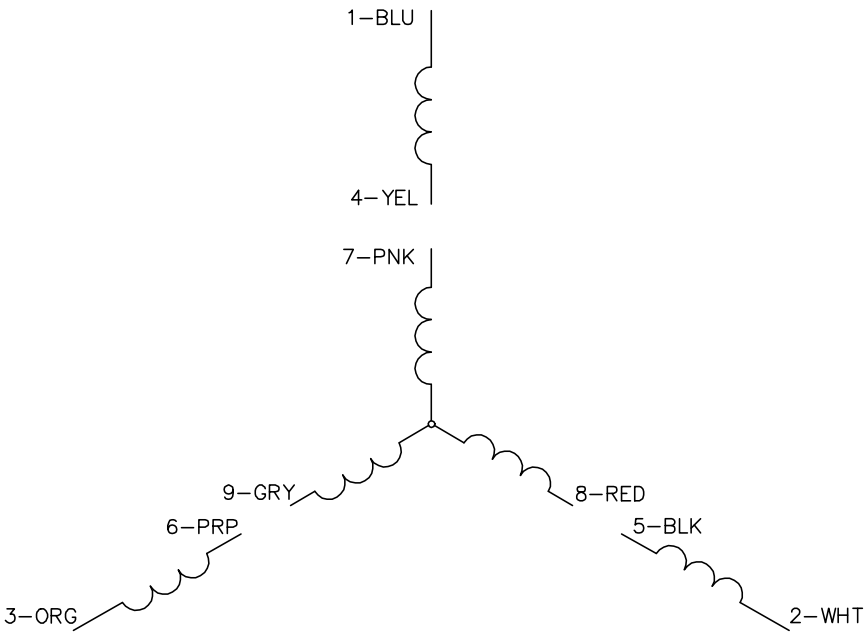
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Volts | 460 | Max RPM | 4000 | Conn Diag. | CD0006B03 | Leads | 3 |
| Amps | 1.75 | Max Amps | | Cs Diagram | CS1126 | BEMF | 296 |
| HP | 2 | VFD # | ECIN4A2P2 | | | LD | 78.9 |
| RPM | 1800 | S.F. | 1.00 | | | LQ | 406 |
| Phase/Hz | 3/60 | Rating | 50C AMB-CONT | | | Rs | 11.7741 Meas L-L |

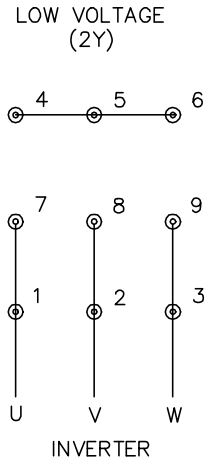


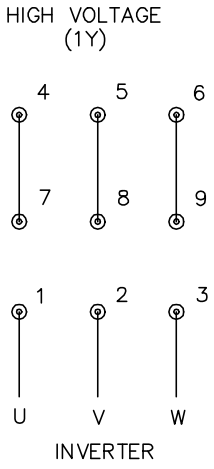

| | | | |
|---|---|---|---|
| BALDOR • RELIANCE | DR By: R & D<br>CK By: USTOSAN<br>APP By: USJAROB1<br>Date: 10/02/2024 | **AC MOTOR PERFORMANCE CURVES** | **35WGG963**<br>35-0000-1627<br>*Test - 111378* |


35LYE5263
516,524, 532 = 13.29
548 = 15.54
2.13
2.25
.13
3.75
Ø7.19
.19 KEY
1.38 LG
Ø6.49
Ø4.500
4.497
Ø.8750
.8745
V-RING SLINGER
6 HOLES
Ø.38
4.00
.50
5.00
2.75
5.94
DRAIN FITTING
(EACH END)
Ø6.61
5.71
TOP OF
NAMEPLATE
45°
45°
6.81
3.50
3.44
LEAD HOLE
Ø1.09
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
2.75
2.75
4.59
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: 35SH2H63 WAS 35SH2E86, UPDATE STACKS
REV: D
VERSION: 04
REVISED: 12:22:37 08/14/2024
TDR: 000001227155
MODEL NO. 35LYE5263
REF: -
BY: USGRHUR
B
BALDOR - RELIANCE®
HOR 143-5TC TEFC B IN SH GND ECS
35LYE5263

CD0005A25




NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005A25

| | | |
|---|---|---|
| REV. DESC: NEW | | |
| REV. LTR: – | VERSION: 00 | TDR: 000001135746 |
| FILE: \AAA\00253\082 | REVISED: 01:10:57 03/30/2020 | BY: ENMARSO |
| MTL: – | | |

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, ECS

SH 1 of 1