ABB BALDOR RELIANCE

# Customer information packet

## VFSWDM3555T-E

2HP, 3450RPM, 3PH, 60HZ, 145TC, 3532M, TEFC, F1
Class - None
Division - Not Applicable

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11/5/2026 9:00:25 AM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 145TC |
| **Frame Material** | Stainless Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 2.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | UR |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Auxiliary Box Lead Termination** | None |
| **Base Indicator** | No Mounting |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | 5.400 A @ 208.0 V |
| | 5.000 A @ 230.0 V |
| | 2.500 A @ 460.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 86.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 2.5 a |

## Part Detail

| | |
|---|---|
| **Revision** | N |
| **Type** | AC |
| **Mech. spec.** | 35E4709 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGR129 |
| **Layout** | 35LYE4709 |
| **Eff. date** | 09-08-2026 |
| **CD Diagram** | CD0005 |
| **Poles** | 02 |
| **Leads** | 9#18,0#,0#,0# Y |
| **Proprietary** | False |
| **Created date** | 07-11-2017 |

| | |
|---|---|
| **Insulation Class** | H |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | N |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Finish** | UNPAINTED |
| **Motor Lead Quantity/Wire Size** | @ 0 AWG |
| | 9 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3532M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 14.90 IN |
| **Power Factor** | 85 |
| **Product Family** | WD All SS Encapsulated |
| **Pulley End Bearing Type** | Sealed Bearing |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 0.875 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 3450 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**

| NP4427AAA01 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT #** | VFSWDM3555T-E | | | **WT** | 50 | **LBS** | | | | | | |
| **SPEC** | 35E4709R129G1 | | | **ENCL** | TEFC | | | | | | | |
| **SER #** | | | | **CC** | 010A | **IP** | 69 | | | | | |
| **HP** | 2 | | | **MAG CUR** | 2.2/1.1 | | | | | | | |
| **VOLTS** | 230/460 | | | | | **NEMA NOM. EFF** | 86.5 | | | | | |
| **AMPS** | 5/2.5 | | | | | **PF** | 85 | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | | |
| **RPM** | 3450 | | | | **MAX RPM** | 5400 | | | | | | |
| **FRAME** | 145TC | **HZ** | 60 | **CODE** | N | **CLASS** | H | | | | | |
| **SER.F.** | 1.15 | **SF AMP** | 5.6/2.8 | | | **PH** | 3 | **DES** | B | | | |
| **DE** | 6205 | | | **ODE** | 6205 | | | | | | | |
| **LUBRICATION** | POLYREX EM | | | | | | | | | | | |
| **ID LOGO** | | **INVERTER TYPE** | | **VPWM** | | **CHP** | 60 | **TO** | 90 | | 1.5:1 | |
| **ID LOGO** | **WK2** | 0.09 | **CT** | 15 | **TO** | 60 | | 4:1 | | | | |
| **ID LOGO** | **SL HZ** | 2.5 | **VT** | 3 | **TO** | 60 | | 20:1 | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | **QR** | | | | | | |
| **YR** | | | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 57369
Typical performance - not guaranteed values

| **Winding:** 35WGR129-R013 | **Type:** 3532M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 2 | **Full Load Torque** | 2.99 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 5/2.5 | **Breakdown Torque** | 15.9 LB-FT |
| **R.P.M.** | | | 3450 | **Pull-up Torque** | 9.04 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 13.8 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | N | **Starting Current** | 31 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 1.13 A |
| **NEMA Nom. Eff.** | 86.5 | **Power Factor** | 85 | **Line-line Res. @ 25ºC** | 5.59 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 51°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 59°C |
| | | | | **Locked-rotor Power Factor** | 47.5 |
| | | | | **Rotor inertia** | 0.0885 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 2 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 48 | 70 | 80 | 86 | 89 | 91 | 88 |
| **Efficiency** | 75.8 | 84.9 | 86.5 | 87.1 | 86.6 | 85.7 | 86.8 |
| **Speed** | 3574 | 3549 | 3525 | 3500 | 3471 | 3441 | 3483 |
| **Line amperes** | 1.27 | 1.62 | 2.03 | 2.5 | 3.04 | 3.6 | 2.82 |

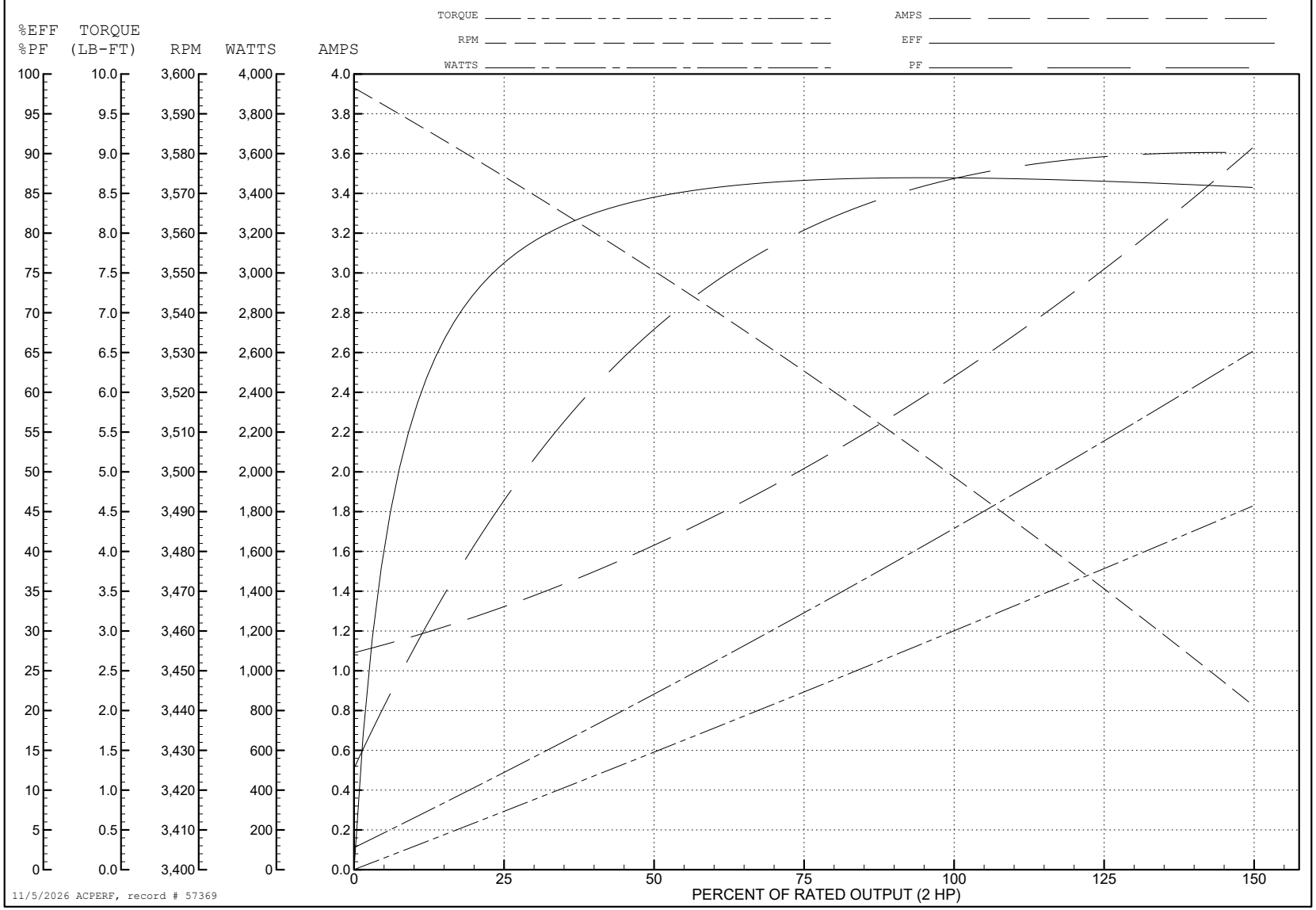
ABB Motors and Mechanical Inc.

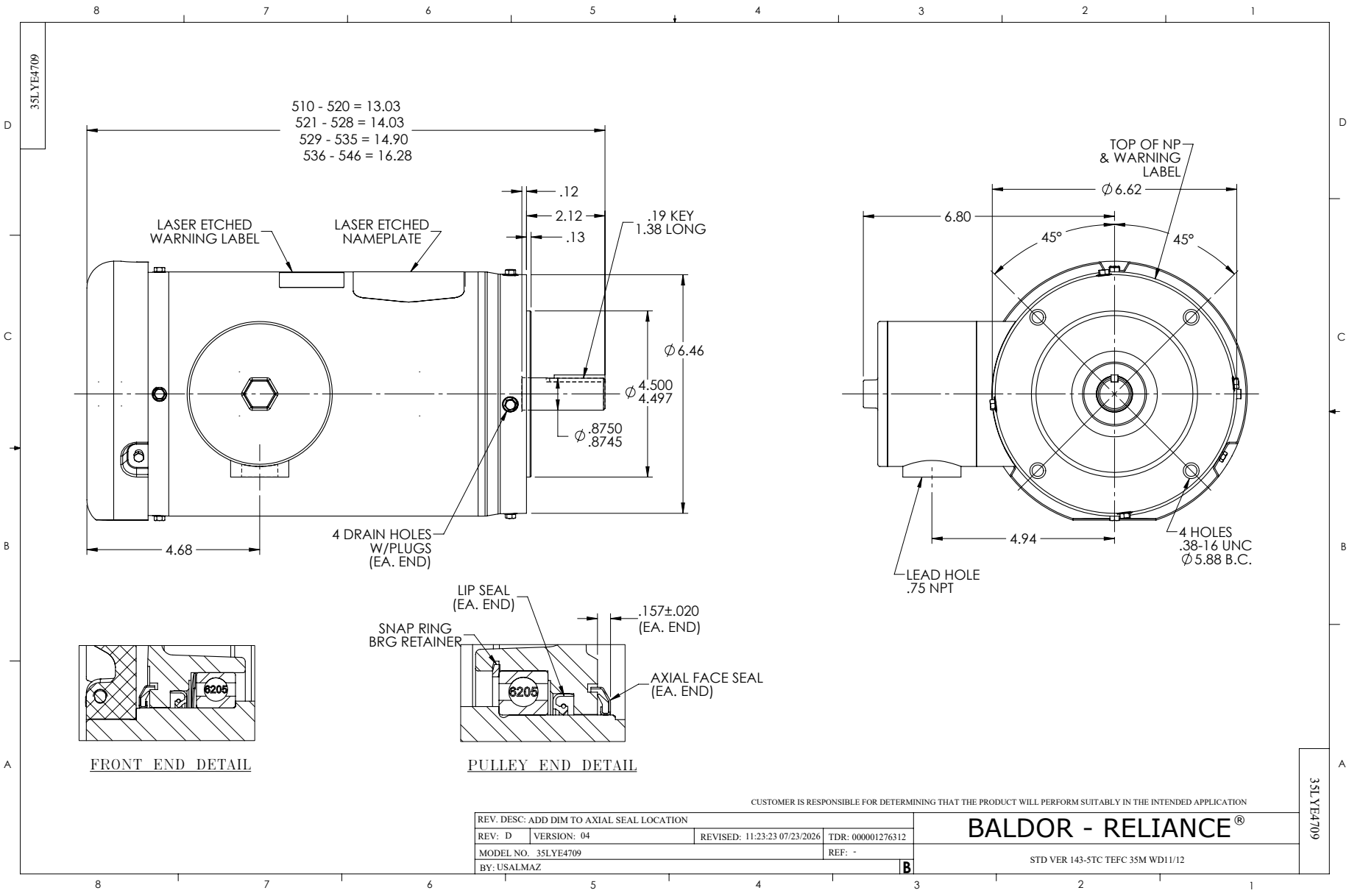
WINDING # 35WGR129

2 HP 3 PH 60 HZ 3450 RPM 460 V 3532M

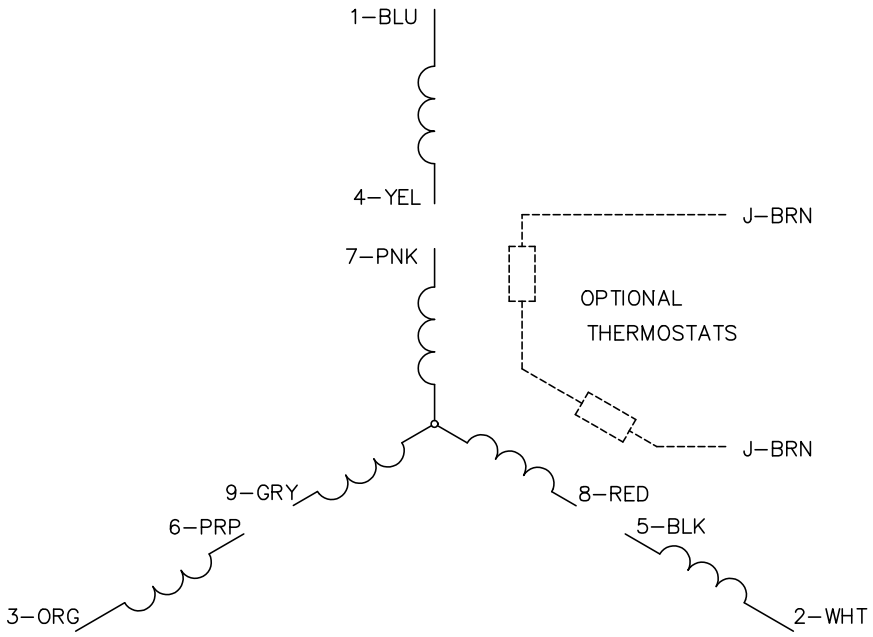
Typical performance - not guaranteed values.

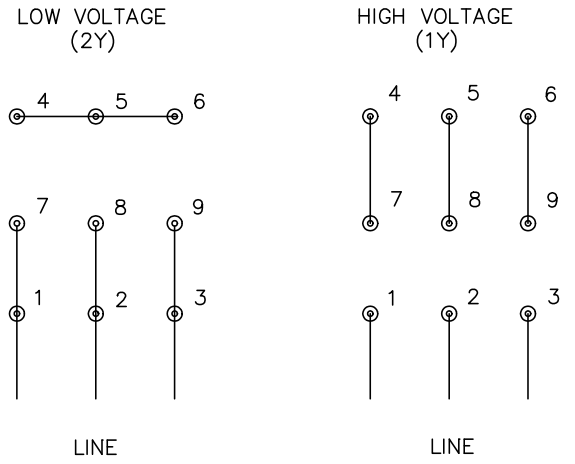
TORQUES(LB-FT): PO=15.9 PU=9.04 LR=13.8 LRA=31




35LYE4709
510 - 520 = 13.03
521 - 528 = 14.03
529 - 535 = 14.90
536 - 546 = 16.28
.12
2.12
.13
.19 KEY
1.38 LONG
LASER ETCHED
WARNING LABEL
LASER ETCHED
NAMEPLATE
Ø6.46
Ø4.500
4.497
Ø.8750
.8745
4.68
4 DRAIN HOLES
W/PLUGS
(EA. END)
TOP OF NP
& WARNING
LABEL
Ø6.62
6.80
45°
45°
4.94
4 HOLES
.38-16 UNC
Ø5.88 B.C.
LEAD HOLE
.75 NPT
LIP SEAL
(EA. END)
.157±.020
(EA. END)
SNAP RING
BRG RETAINER
AXIAL FACE SEAL
(EA. END)
6205
6205
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD DIM TO AXIAL SEAL LOCATION
REV: D
VERSION: 04
REVISED: 11:23:23 07/23/2026
TDR: 000001276312
MODEL NO. 35LYE4709
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STD VER 143-5TC TEFC 35M WD11/12
35LYE4709

CD0005




NOTES:

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

CD0005

| | | | |
|---|---|---|---|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: E | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| CD0005 | | FILE: AAA00005140 | MDL: – |
| | | MTL: – | 3PH, DV, 9 LEADS |