# Customer information packet

## CFSWDM3542-5E

.75HP, 1765RPM, 3PH, 60HZ, 56C, 3514M, TENV, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TENV |
| **Frame** | 56C |
| **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** | .750 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 575.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | WEEE |
| | NEMA_PREMIUM |
| | NEMA PREMIUM |
| | CURUSEEV |
| **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 |
| **Current @ Voltage** | .930 A @ 575.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 82.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 0.9 a |

## Part Detail

| | |
|---|---|
| **Revision** | C |
| **Type** | AC |
| **Mech. spec.** | 35E4735 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGZ949 |
| **Layout** | 35LYE4735 |
| **Eff. date** | 07-15-2024 |
| **CD Diagram** | CD0006 |
| **Poles** | 04 |
| **Leads** | 3#18 |
| **Proprietary** | False |
| **Created date** | 03-11-2022 |

| | |
|---|---|
| **Insulation Class** | H |
| **Inverter Code** | Inverter Duty |
| **KVA Code** | K |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Max Speed** | 2700 rpm |
| **Motor Finish** | UNPAINTED |
| **Motor Lead Quantity/Wire Size** | 3 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3514M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 11.78 IN |
| **Power Factor** | 73 |
| **Product Family** | WD All SD Non-Encapsulated |
| **Pulley End Bearing Type** | Sealed Bearing |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 0.625 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1765 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**

| NP4427ALA02 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT #** | CFSWDM3542-5E | | | **WT** | 36 | **LBS** | | | | | | |
| **SPEC** | 35E4735Z949G1 | | | **ENCL** | TENV | | | | | | | |
| **SER #** | | | | **CC** | | **IP** | 69 | | | | | |
| **HP** | .75 | | | **MAG CUR** | .59 | | | | | | | |
| **VOLTS** | 575 | | | | | **NEMA NOM. EFF** | | 82.5 | | | | |
| **AMPS** | .93 | | | | | **PF** | 73 | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | | |
| **RPM** | 1765 | | | | **MAX RPM** | 2700 | | | | | | |
| **FRAME** | 56C | **HZ** | 60 | **CODE** | K | **CLASS** | H | | | | | |
| **SER.F.** | 1.15 | **SF AMP** | 1.02 | | | **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** | 0.101 | **CT** | 15 | **TO** | 60 | | 4:1 | | | | |
| **ID LOGO** | **SL HZ** | 1.2 | **VT** | 3 | **TO** | 60 | | 20:1 | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | **QR** | | |
| **YR** | | | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 91700
Typical performance - not guaranteed values

| **Winding:** 35WGZ949-R001 | **Type:** 3514M | **Enclosure:** TENV |
|---|---|---|

| **Nameplate Data** | | | | **575 V, 60 Hz: Single Voltage Motor** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | .75 | **Full Load Torque** | 2.25 LB-FT |
| **Volts** | | | 575 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | .93 | **Breakdown Torque** | 7.36 LB-FT |
| **R.P.M.** | | | 1765 | **Pull-up Torque** | 4.05 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 4.68 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | K | **Starting Current** | 6.16 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 0.589 A |
| **NEMA Nom. Eff.** | 82.5 | **Power Factor** | 73 | **Line-line Res. @ 25ºC** | 49.2 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 56°C |
| **S.F. Amps** | | | 1.02 | **Temp. Rise @ S.F. Load** | 66°C |
| | | | | **Locked-rotor Power Factor** | 65.9828 |
| | | | | **Rotor inertia** | 0.101 lb-ft² |

**Load Characteristics 575 V, 60 Hz, 0.75 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 34 | 52 | 65 | 74 | 80 | 83 | 78 |
| **Efficiency** | 71.1 | 80.8 | 83.1 | 83.6 | 82.8 | 81 | 83.1 |
| **Speed** | 1790 | 1782 | 1773 | 1763 | 1753 | 1740 | 1757 |
| **Line amperes** | 0.61 | 0.682 | 0.782 | 0.913 | 1.07 | 1.26 | 1.01 |

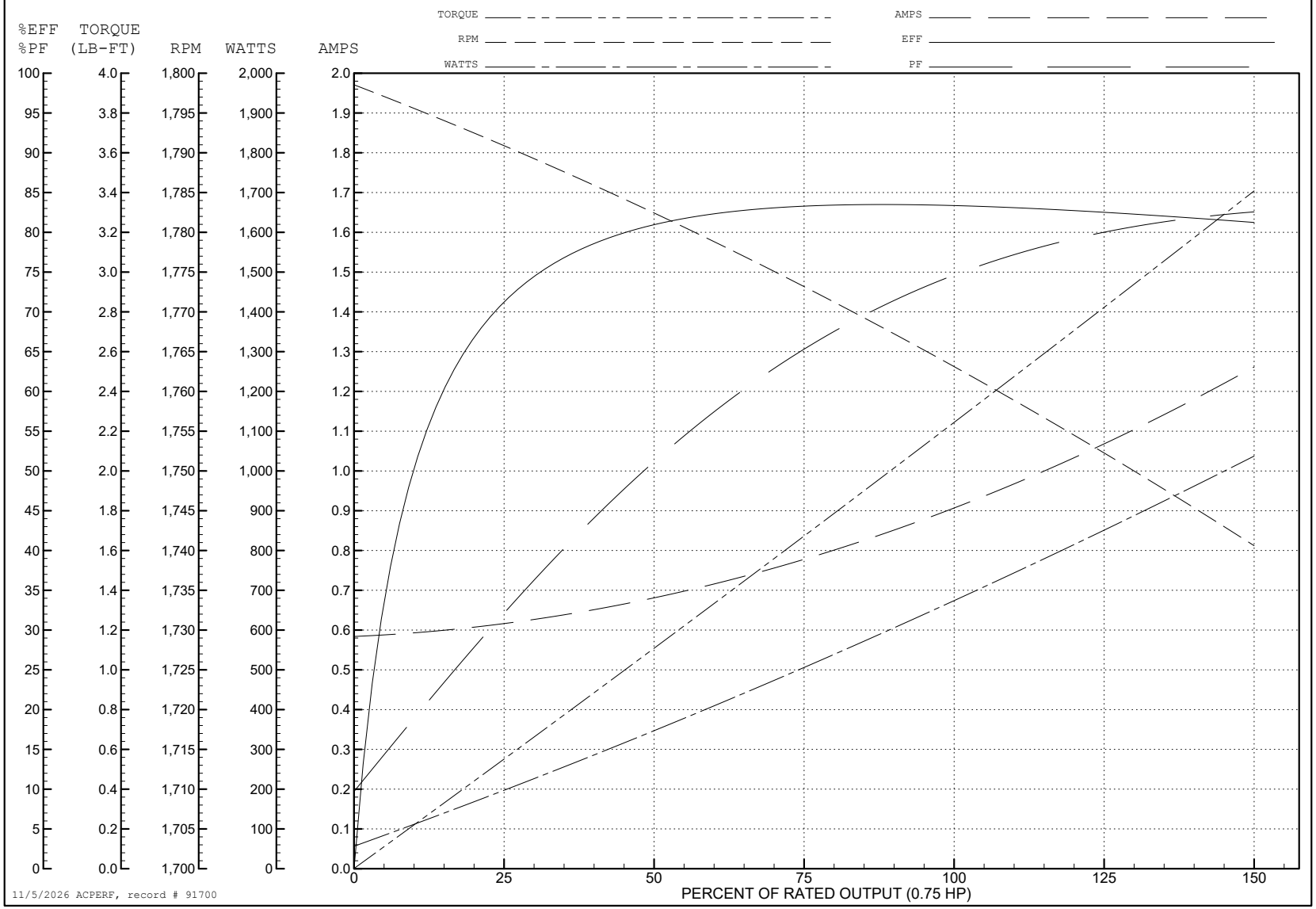
ABB Motors and Mechanical Inc.

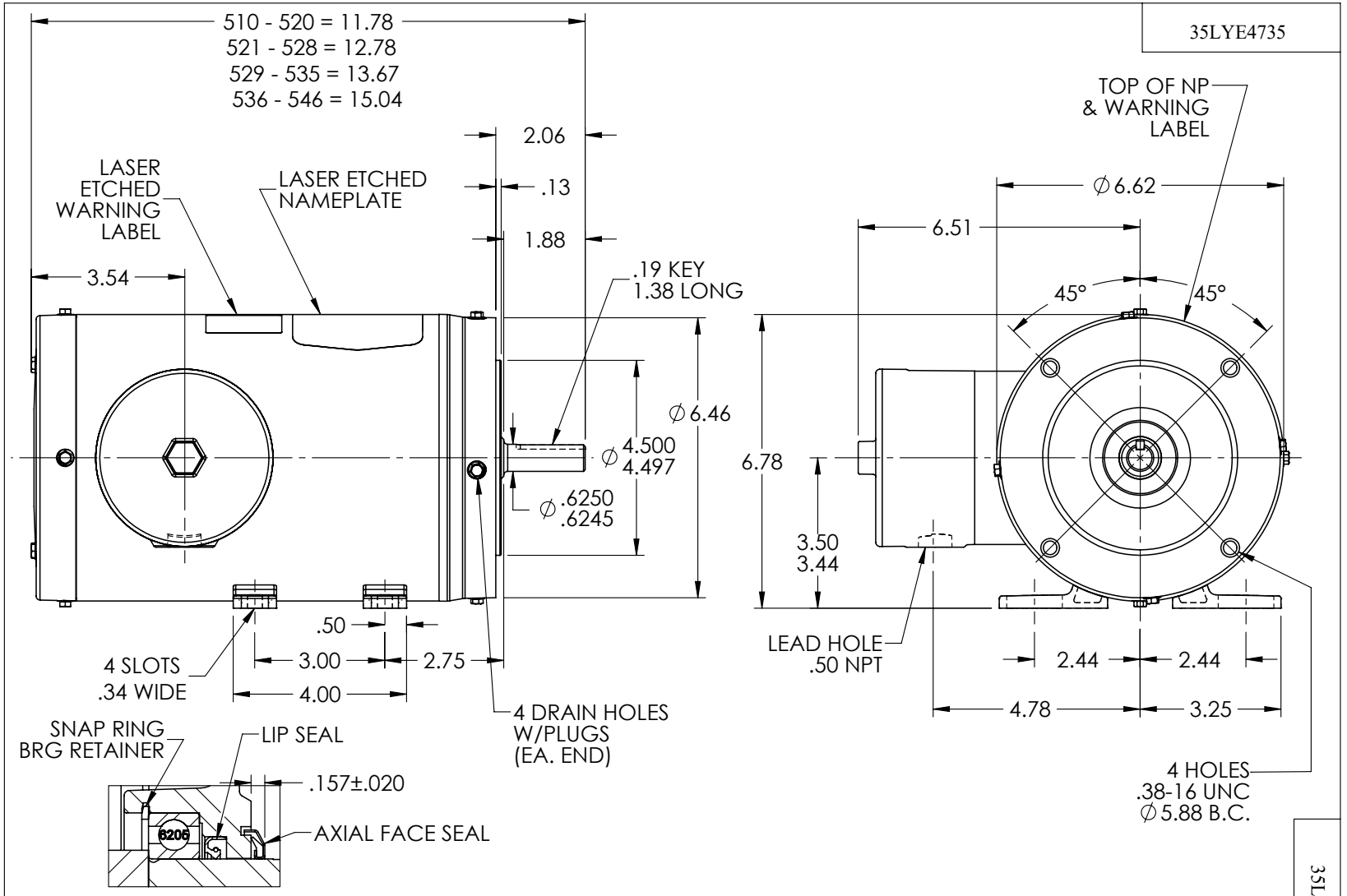
WINDING # 35WGZ949

0.75 HP 3 PH 60 HZ 1765 RPM 575 V 3514M

Typical performance - not guaranteed values.

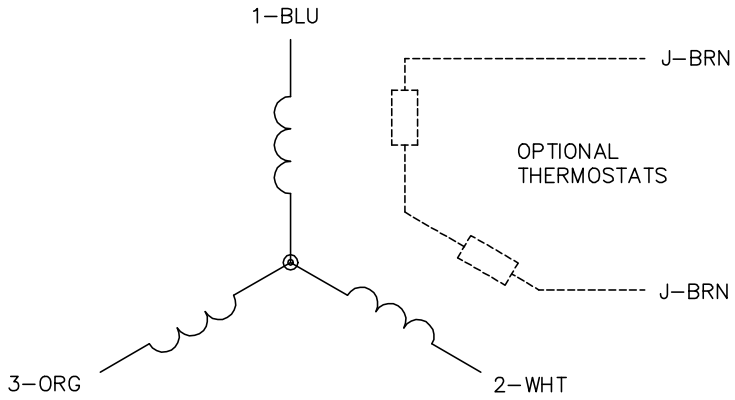
TORQUES(LB-FT): PO=7.36 PU=4.05 LR=4.68 LRA=6.16

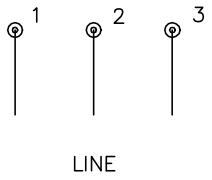



35LYE4735
510 - 520 = 11.78
521 - 528 = 12.78
529 - 535 = 13.67
536 - 546 = 15.04
2.06
.13
1.88
LASER ETCHED WARNING LABEL
LASER ETCHED NAMEPLATE
3.54
.19 KEY 1.38 LONG
∅6.46
∅4.500 4.497
∅.6250 .6245
.50
3.00
2.75
4.00
4 SLOTS .34 WIDE
4 DRAIN HOLES W/PLUGS (EA. END)
SNAP RING BRG RETAINER
LIP SEAL
.157±.020
AXIAL FACE SEAL
6206
PULLEY END DETAIL
TOP OF NP & WARNING LABEL
∅6.62
6.51
45°
45°
6.78
3.50 3.44
LEAD HOLE .50 NPT
2.44
2.44
4.78
3.25
4 HOLES .38-16 UNC ∅5.88 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD DIM TO AXIAL SEAL LOCATION
REV: E
VERSION: 05
REVISED: 11:46:52 07/23/2026
TDR: 000001276312
BALDOR - RELIANCE®
35LYE4735
MODEL NO. 35LYE4735
REF: -
BY: USALMAZ
STD HORZ 56C TENV 35M WD11/12
35LYE4735

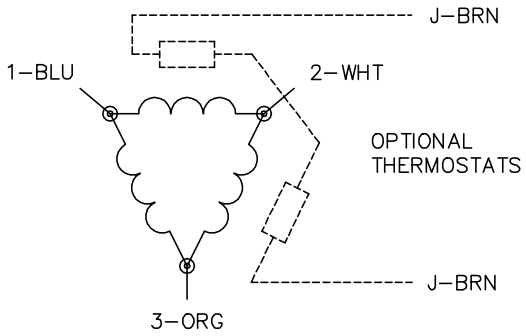
CD0006

TYPICAL WYE–CONNECTED MOTOR




TYPICAL DELTA–CONNECTED MOTOR




NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

| | | | |
|---|---|---|---|
| REV. DESC: ADD CLASS CONN00000007 | | | BALDOR - RELIANCE® |
| REV. LTR: E | VERSION: 01 | TDR: 000001099922 | |
| FILE: \AAA\00005\141 | REVISED: 10:24:49 02/19/2019 | BY: ENBRIR0 | 3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED |
| MTL: – | | | SH 1 of 1 |