ABB BALDOR RELIANCE

# Customer information packet

## VEDM3558

2HP, 1760RPM, 3PH, 60HZ, 56C, 3528M, TEFC, F1, N
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 56C |
| **Frame Material** | 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** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | CCSA US |
| | CSA EEV |
| | NEMA PREMIUM |
| | NEMA_PREMIUM |
| | 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 |
| **Constant Torque Speed Range** | 6 |
| **Current @ Voltage** | 5.800 A @ 208.0 V |
| | 5.600 A @ 230.0 V |
| | 2.800 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 |

## Part Detail

| | |
|---|---|
| **Revision** | C |
| **Type** | AC |
| **Mech. spec.** | 35E4312 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGG073 |
| **Layout** | 35LYE4312 |
| **Eff. date** | 05-30-2024 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 01-10-2022 |

| | |
|---|---|
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 2.8 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | K |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Max Speed** | 2700 rpm |
| **Motor Lead Quantity/Wire Size** | 9 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3528M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 13.23 IN |
| **Power Factor** | 77 |
| **Product Family** | Dirty Duty Plus |
| **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** | 1760 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**

| NP3504 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **CAT NO** | VEDM3558 | | | | | | | |
| **SPEC.** | 35E4312G073G1 | | | **ENCL** | TEFC | | | |
| **FRAME** | 56C | **HP** | 2 | | | | | |
| **VOLTS** | 230/460 | | | | | | | |
| **FLA** | 5.6/2.8 | | | **I.P.** | 56 | | | |
| **RPM** | 1760 | **RPM MAX** | 2700 | | | | | |
| **HZ** | 60 | **PH** | 3 | **CLASS** | F | | | |
| **SER.F.** | 1.15 | **DES** | B | **CC** | 010A | | | |
| **NEMA-NOM-EFF** | 86.5 | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | |
| **DE BRG** | 6205 | **ODE BRG** | 6203 | | | | | |
| **GREASE** | POLYREX EM | | | | | | | |
| **INV.TYPE** | | **C HP FR** | 60 | **C HP TO** | 90 | | | |
| **CT HZ FROM** | 6 | **CT HZ TO** | 60 | **VT HZ FROM** | 6 | **VT HZ TO** | 60 | |
| **SER.NO** | | | | | | | | |
| | SFA 6.26/3.13 | | | | | | | |

**Parts List**

| Part number | Description | Quantity |
|---|---|---|
| SA402710 | SA 35E4312G073G1 | 1.000 ea |
| RA393987 | RA 35E4312G073G1 | 1.000 ea |
| 34FN3002B01 | EXTERNAL FAN, PLASTIC, .637/.639 HUB W/ | 1.000 ea |
| NS2512A01 | INSULATOR, CONDUIT BOX X | 1.000 ea |
| 35CB1001A01E | SPL CONDUIT BOX, MACHINED (E-COAT) | 1.000 ea |
| 35GS1022A02 | GASKET BOX .06 THK NEOP BLK HDN 30-40 DU | 1.000 ea |
| 51XB1016A08 | 10-16X 1/2HXWSSLD SERTYB | 2.000 ea |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| HW3001B01 | BRASS CUP WASHER, FOR #10 SCREW | 1.000 ea |
| 35EP1100F12EP5 | FRONT TEFC 203 BRG W/ SEAL | 1.000 ea |
| HW4606A01 | JM CLIPPER/SEAL (WDE-0667-1064-BH49) | 1.000 ea |
| HW4500S33 | 1/8 NPT STAINLESS #304 SS PLUG | 6.000 ea |
| HA4054 | SHORT T-DRAIN FITTING, .125" N.P.T. | 2.000 ea |
| HW5100A03 | WAVY WASHER (W1543-017) | 1.000 ea |
| 35EP1300A113E | PUEP ENCL 205 BRG F/SEAL, (4).125 NPT | 1.000 ea |
| HW4606A02 | JM CLIPPER/SEAL (LWE-0938-1624-AL23) | 1.000 ea |
| 12XN1032S20 | 10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL | 2.000 ea |
| 35FH4005A01EP5 | IEC FH NO GREASER | 1.000 ea |
| 10XN1032S08 | 10-32X1/2 HEX HEAD S STL | 3.000 ea |
| 35CB4516E | CONDUIT BOX LID, E-COAT | 1.000 ea |
| 36GS1002 | GASKET, 1/16" NEOPRENE CONDUIT BOX LID | 1.000 ea |
| 59XW0832S07 | TAPTITE II,HEX WSHR UNSLTD SER,410 S.S., | 4.000 ea |
| HW2502D13 | SS KEY, 3/16 SQ X 1.375 | 1.000 ea |
| HA7000A04 | KEY RETAINER 0.625 DIA SHAFTS | 1.000 ea |
| MJ5001A02 | 732 CL SEALANT 3 OZ DIXIE BEARING 289100 | 0.001 ea |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 ea |
| LB1164 | LABEL,WARNING AND DRAIN | 1.000 ea |
| MJ5001A23 | P.D. GEORGE B-276 AIR DRY VARNISH | 0.001 ga |
| LB1000 | LABEL, DIRTY DUTY | 1.000 ea |
| WD1000D21 | TRM,T&B #B71M,RING,18-14,.25,NON-INSL | 9.000 ea |
| MJ1000A02 | GREASE, POLYREX EM EXXON | 0.050 lb |

| | | |
|---|---|---|
| MG1500Y02 | WILKOPON PRIMER YELLOW | 0.010 ga |
| MG1025L01 | WILKOFAST FD, 786.04, BLACK | 0.010 ga |
| 51XB1214A16 | 12-14X1.00 HXWSSLD SERTYB | 1.000 ea |
| HA3100S07 | THRUBOLT 10-32 X 8.375 SS | 4.000 ea |
| LC0005 | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING | 1.000 ea |
| NP3504 | SS DIRTY DUTY PLUS,INV,CURUS EEV,NEMA PR | 1.000 ea |
| 36PA1000 | PKG GRP, PRINT PK1016A08 | 1.000 ea |
| PK3082 | STYROFOAM CRADLE | 1.000 ea |
| MN416A01 | TAG-INSTAL-MAINT no wire (2500 bx)11/25 | 1.000 ea |

**AC Induction Motor Performance Data**
Record # 87157
Typical performance - not guaranteed values

| **Winding:** 35WGG073-R001 | **Type:** 3528M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 2 | **Full Load Torque** | 5.99 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 5.6/2.8 | **Breakdown Torque** | 20.5 LB-FT |
| **R.P.M.** | | | 1760 | **Pull-up Torque** | 13.8 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 15 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | K | **Starting Current** | 22.5 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 1.62 A |
| **NEMA Nom. Eff.** | 86.5 | **Power Factor** | 77 | **Line-line Res. @ 25ºC** | 9.54 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 64°C |
| **S.F. Amps** | | | 6.3/3.15 | **Temp. Rise @ S.F. Load** | 77°C |
| | | | | **Locked-rotor Power Factor** | 57.9 |
| | | | | **Rotor inertia** | 0.202 lb-ft² |

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

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 35 | 55 | 68 | 76 | 81 | 84 | 80 |
| **Efficiency** | 78.3 | 85.3 | 86.9 | 86.5 | 85.3 | 83.6 | 86.1 |
| **Speed** | 1791 | 1782 | 1771 | 1760 | 1748 | 1734 | 1754 |
| **Line amperes** | 1.71 | 1.97 | 2.34 | 2.82 | 3.36 | 3.97 | 3.13 |

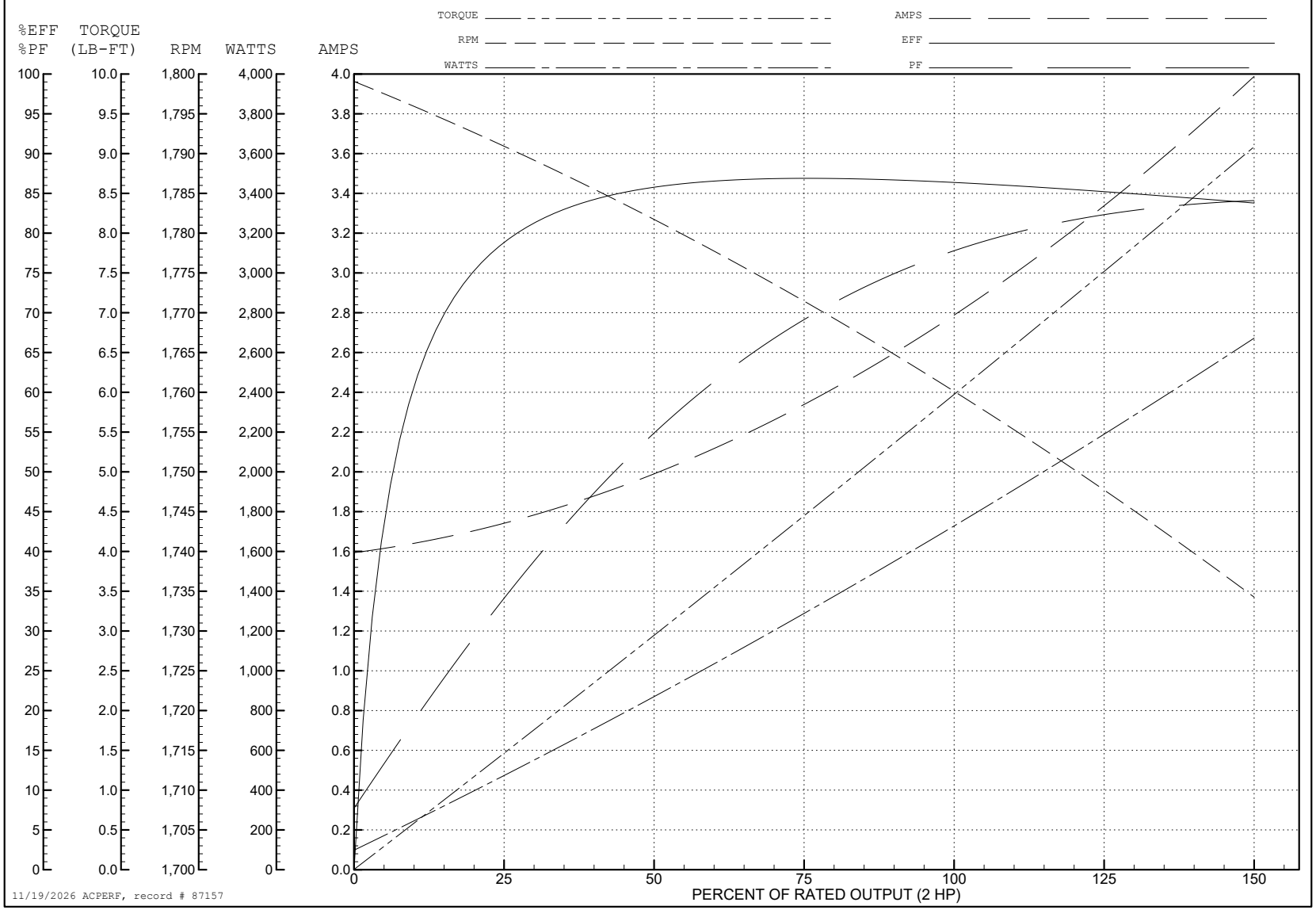
ABB Motors and Mechanical Inc.

WINDING # 35WGG073

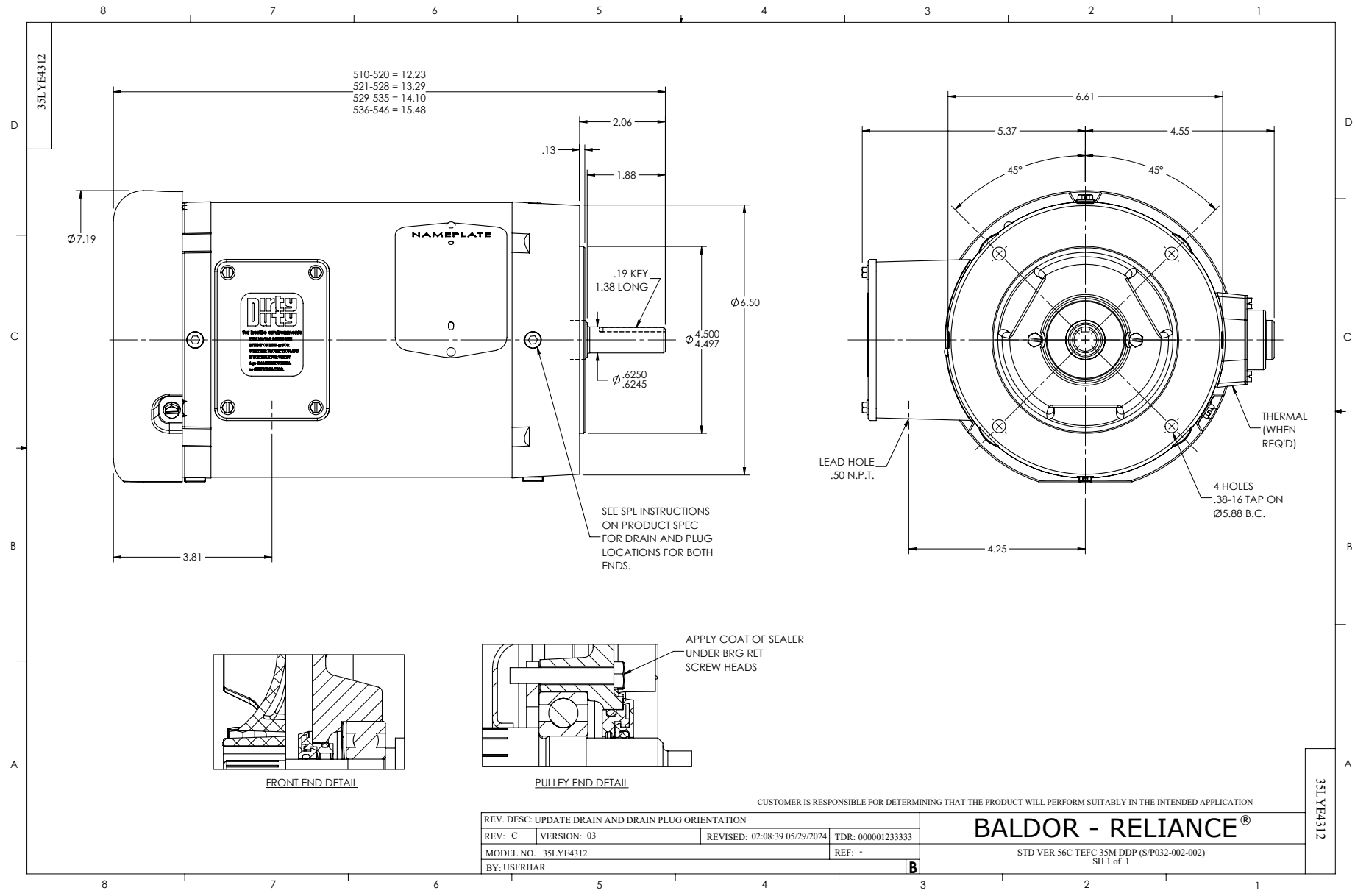
2 HP 3 PH 60 HZ 1760 RPM 460 V 3528M

Typical performance - not guaranteed values.

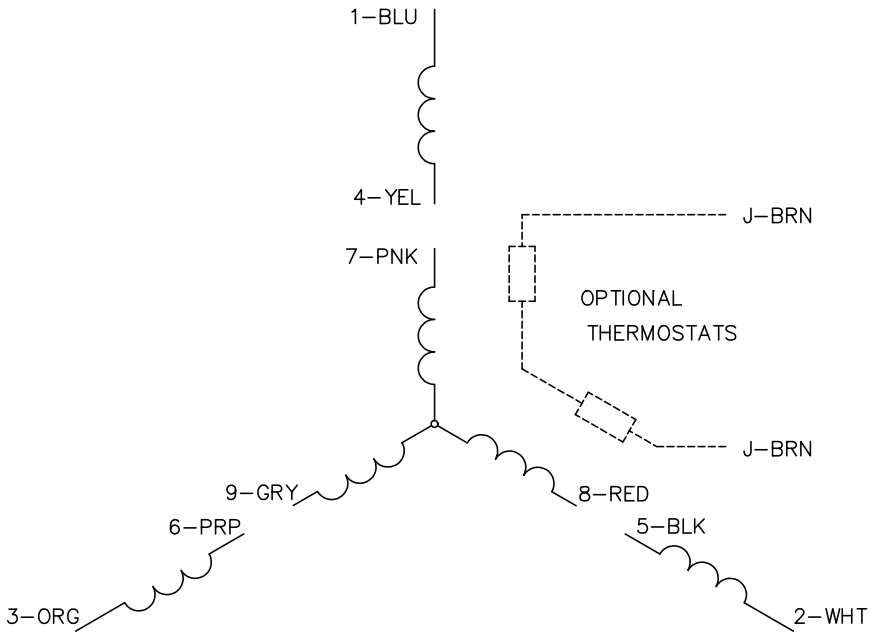
TORQUES(LB-FT): PO=20.5 PU=13.8 LR=15 LRA=22.5

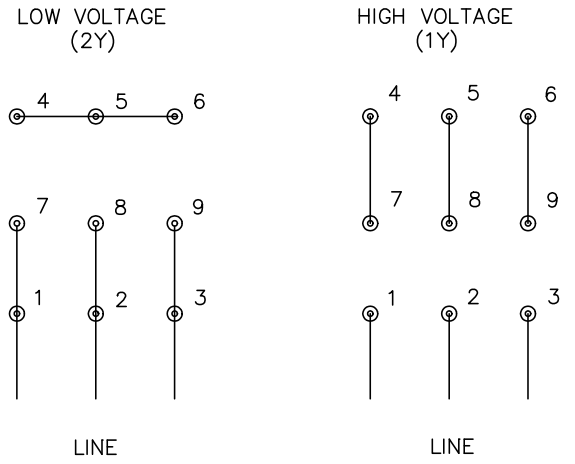



11/19/2026 ACPERF, record # 87157


35LYE4312
510-520 = 12.23
521-528 = 13.29
529-535 = 14.10
536-546 = 15.48
2.06
.13
1.88
Ø7.19
NAMEPLATE
.19 KEY
1.38 LONG
Ø6.50
Ø4.500
4.497
Ø.6250
.6245
3.81
SEE SPL INSTRUCTIONS ON PRODUCT SPEC FOR DRAIN AND PLUG LOCATIONS FOR BOTH ENDS.
6.61
5.37
4.55
45°
45°
THERMAL (WHEN REQ'D)
LEAD HOLE .50 N.P.T.
4 HOLES .38-16 TAP ON Ø5.88 B.C.
4.25
APPLY COAT OF SEALER UNDER BRG RET SCREW HEADS
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE DRAIN AND DRAIN PLUG ORIENTATION
REV: C
VERSION: 03
REVISED: 02:08:39 05/29/2024
TDR: 000001233333
MODEL NO. 35LYE4312
REF: -
BY: USFRHAR
B
BALDOR - RELIANCE®
STD VER 56C TEFC 35M DDP (S/P032-002-002)
SH 1 of 1
35LYE4312

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 |