ABB BALDOR RELIANCE

# Customer information packet

## L3513-50

1.5/1.1KWHP, 2910RPM, 1PH, 50HZ, 56, 3530LC, T
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 56 |
| **Frame Material** | Steel |
| **Frequency** | 50.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Cap Start, Cap Run |
| **Output @ Frequency** | 1.500 HP @ 50 HZ |
| **Phase** | 1 |
| **Synchronous Speed @ Frequency** | 3000 RPM @ 50 HZ |
| **Voltage @ Frequency** | 110.0 V @ 50 HZ |
| | 220.0 V @ 50 HZ |
| **Agency Approvals** | C UR US |
| | CE |
| | CURUS |
| | UKCA |
| | WEEE |
| **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** | 6.500 A @ 220.0 V |
| | 13.000 A @ 110.0 V |
| **Design Code** | L |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 79.6 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |

## Part Detail

| | |
|---|---|
| **Revision** | - |
| **Type** | AC |
| **Mech. spec.** | 35E008 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGK257 |
| **Layout** | 35LYE008 |
| **Eff. date** | 04-20-2026 |
| **CD Diagram** | CD0055 |
| **Poles** | 02 |
| **Leads** | 6#18 |
| **Proprietary** | False |
| **Created date** | 04-17-2026 |

| | |
|---|---|
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 6.5 a |
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |
| **KVA Code** | J |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Quantity/Wire Size** | 6 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3530LC |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 14.10 IN |
| **Power Factor** | 96 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **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** | 2910 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**

| NP1372L | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | L3513-50 | | | | | | | | |
| **SPEC.** | 35E008K257G1 | | | | | | | | |
| **HP** | 1.5/1.1KW | | | | | | | | |
| **VOLTS** | 110/220 | | | | | | | | |
| **AMP** | 13/6.5 | | | | | | | | |
| **R.P.M. (1/MIN)** | 2910 | | | | | | | | |
| **FRAME** | 56 | **HZ** | 50 | | | **PH** | 1 | | |
| **SER.F.** | 1.15 | **CODE** | J | **DES** | L | **CL** | F | | |
| **NEMA-NOM-EFF** | 79.6 | **PF** | 96 | | | | | | |
| **RATING** | 40C AMB-S1 CONT | | | | | | | | |
| **CC** | | | IP44 IC411 30KG | | | | | | |
| **DE** | 6205 | **ODE** | 6203 | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | |
| | IE2-50HZ 81.3(75%) 77.0(50%) | | | | | | | | |

**Parts List**

| Part number | Description | Quantity |
|---|---|---|
| SA447251 | SA 35E008K257G1 | 1.000 ea |
| RA439856 | RA 35E008K257G1 | 1.000 ea |
| OC3060F10SP | CYL OIL CAP 60MFD/370V | 1.000 ea |
| EC1645A06SP | ELEC CAP, 645-774 MFD, 125V, 2.06D X 4. | 1.000 ea |
| NS2512A01 | INSULATOR, CONDUIT BOX X | 1.000 ea |
| 35CB3007 | 35 CB CASTING W/.88 DIA. LEAD HOLE | 1.000 ea |
| 36GS1000SP | GASKET-CONDUIT BOX, .06 THICK #SV-330 LE | 1.000 ea |
| 51XB1016A07 | 10-16 X 7/16 HXWSSLD SERTYB | 2.000 ea |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| 35EP3122K00 | MASTER ODE,203 BRG,.683SH,#26 DRN,FH MTG | 1.000 ea |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 ea |
| 35CB3801 | CAPACITOR COVER, CAST | 1.000 ea |
| NS2501A02 | INSULATOR, CAPACITOR BOX | 1.000 ea |
| HA7010 | CAPACITOR RETENTION CLAMP | 1.000 ea |
| 34GS3002 | GASKET, CAPACITOR BOX | 1.000 ea |
| 51XB1016A08 | 10-16X 1/2HXWSSLD SERTYB | 2.000 ea |
| HW5100A03 | WAVY WASHER (W1543-017) | 1.000 ea |
| 35EP3123A00 | MASTER DE,205 BRG,.998SH,#26 DRN | 1.000 ea |
| XY1032A02 | 10-32 HEX NUT DIRECTIONAL SERRATION | 4.000 ea |
| 51XB1214A16 | 12-14X1.00 HXWSSLD SERTYB | 1.000 ea |
| 35FH4005A32 | IEC FH NO GRSR W/3 HOLES - PRIMED | 1.000 ea |
| 51XW1032A06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 ea |
| 35CB4521GX | CONDUIT BOX LID KIT **ORDER INDIV PARTS | 1.000 ea |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 ea |
| HW2501D13 | KEY, 3/16 SQ X 1.375 | 1.000 ea |
| HA7000A04 | KEY RETAINER 0.625 DIA SHAFTS | 1.000 ea |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 ea |
| MJ1000A02 | GREASE, POLYREX EM EXXON | 0.050 lb |
| 35FN3002A05SP | EXFN, PLASTIC, 6.376 OD, .638 ID | 1.000 ea |
| MG1050G01 | CELEROL MEDIUM CHARCOAL METALLIC GRAY | 0.017 ga |
| WD1000A15 | 3-520132-2 AMP FLAG (4M/RL NON-CANC/NON- | 4.000 ea |

| | | |
|---|---|---|
| HA3100A22 | THRUBOLT 10-32 X 10.125 | 4.000 ea |
| HA4067A01 | PUSH IN DRAIN FITTING (BLACK) | 1.000 ea |
| HA4067A01 | PUSH IN DRAIN FITTING (BLACK) | 1.000 ea |
| SP5181A01 | MODEL 35 LC TORQ STAT SWITCH LEAD ASSY | 1.000 ea |
| LC0001A01 | CONN LABEL / WARNING LABEL (LC0001 / LB1 | 1.000 ea |
| LB1624 | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| MN416A01 | TAG-INSTAL-MAINT no wire (2500 bx)11/25 | 1.000 ea |
| NP1372L | ALUM UL CE UKCA WEEE CC, A60 | 1.000 ea |
| 35PA1066 | PKG GRP, PRINT PK1008A07 | 1.000 ea |
| FE-0000001 | ZRTG FE ASSEMBLY | 1.000 ea |
| PE-0000001 | ZRTG PE ASSEMBLY | 1.000 ea |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| 35-8762 | C FACE KIT | A8 |
| 35EP1506A01SP | D-FLANGE KIT | A8 |

**AC Induction Motor Performance Data**
Record # 103731
Typical performance - not guaranteed values

| **Winding:** 35WGK257-R001 | **Type:** 3530LC | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **110 V, 50 Hz: Low Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 1.5 | **Full Load Torque** | 2.71 LB-FT |
| **Volts** | | | 110/220 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 13/6.5 | **Breakdown Torque** | 8 LB-FT |
| **R.P.M.** | | | 2910 | **Pull-up Torque** | 6.2 LB-FT |
| **Hz** | 50 | **Phase** | 1 | **Locked-rotor Torque** | 9 LB-FT |
| **NEMA Design Code** | L | **KVA Code** | J | **Starting Current** | 107 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 3.1 A |
| **NEMA Nom. Eff.** | 79.6 | **Power Factor** | 96 | **Line-line Res. @ 25ºC** | 0.319 Ω A Ph<br>1.59 Ω B Ph |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 43°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 51°C |
| | | | | **Locked-rotor Power Factor** | 84.3 |
| | | | | **Rotor inertia** | 0.0645 lb-ft² |

**Load Characteristics 110 V, 50 Hz, 1.5 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 87 | 93 | 95 | 96 | 97 | 96 | 97 |
| **Efficiency** | 64.9 | 77 | 81.3 | 82 | 81.3 | 79.3 | 81.6 |
| **Speed** | 2976 | 2956 | 2933 | 2908 | 2880 | 2845 | 2891 |
| **Line amperes** | 4.67 | 7.09 | 9.89 | 12.89 | 16.21 | 19.97 | 14.9 |

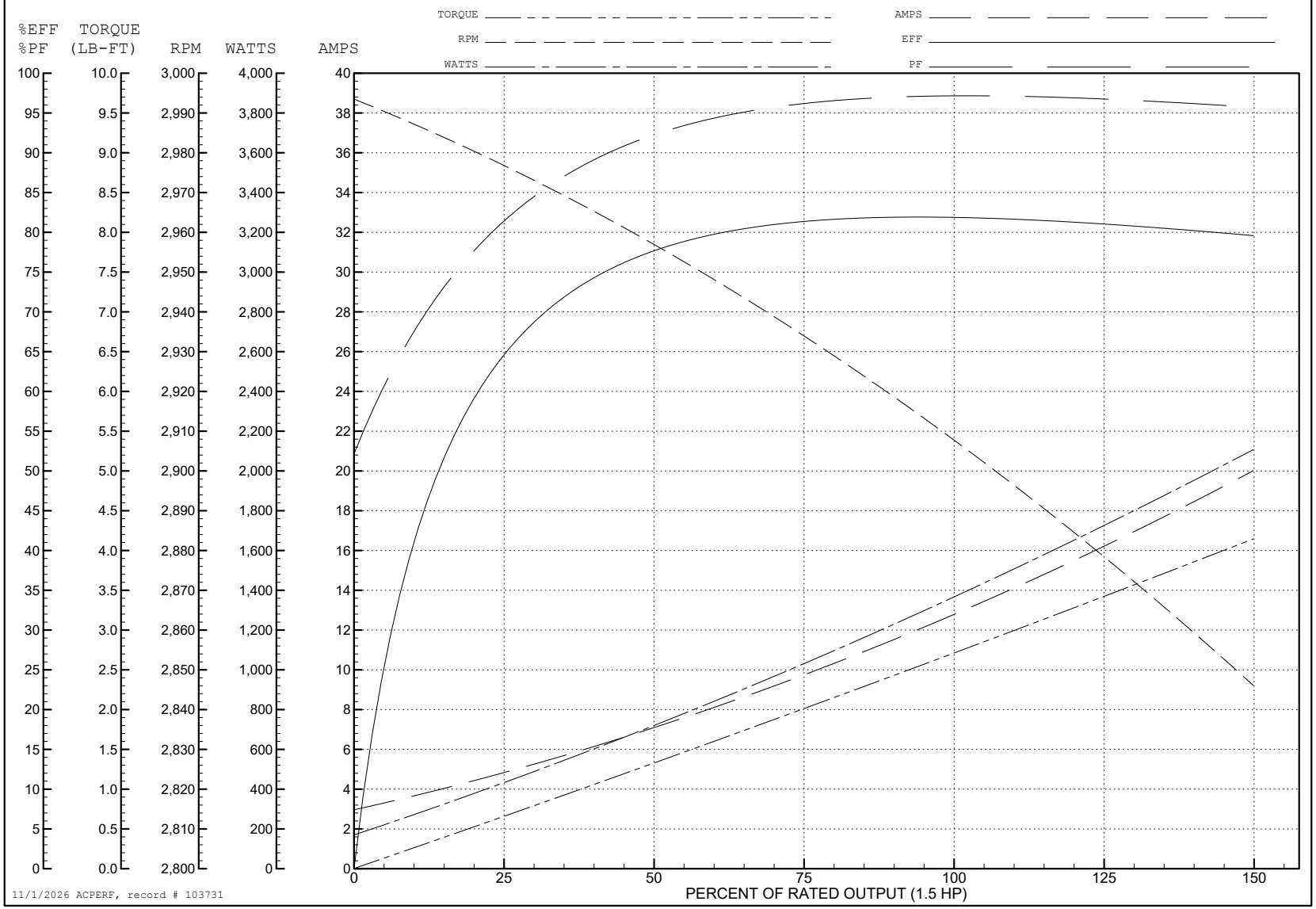
ABB Motors and Mechanical Inc.

WINDING # 35WGK257

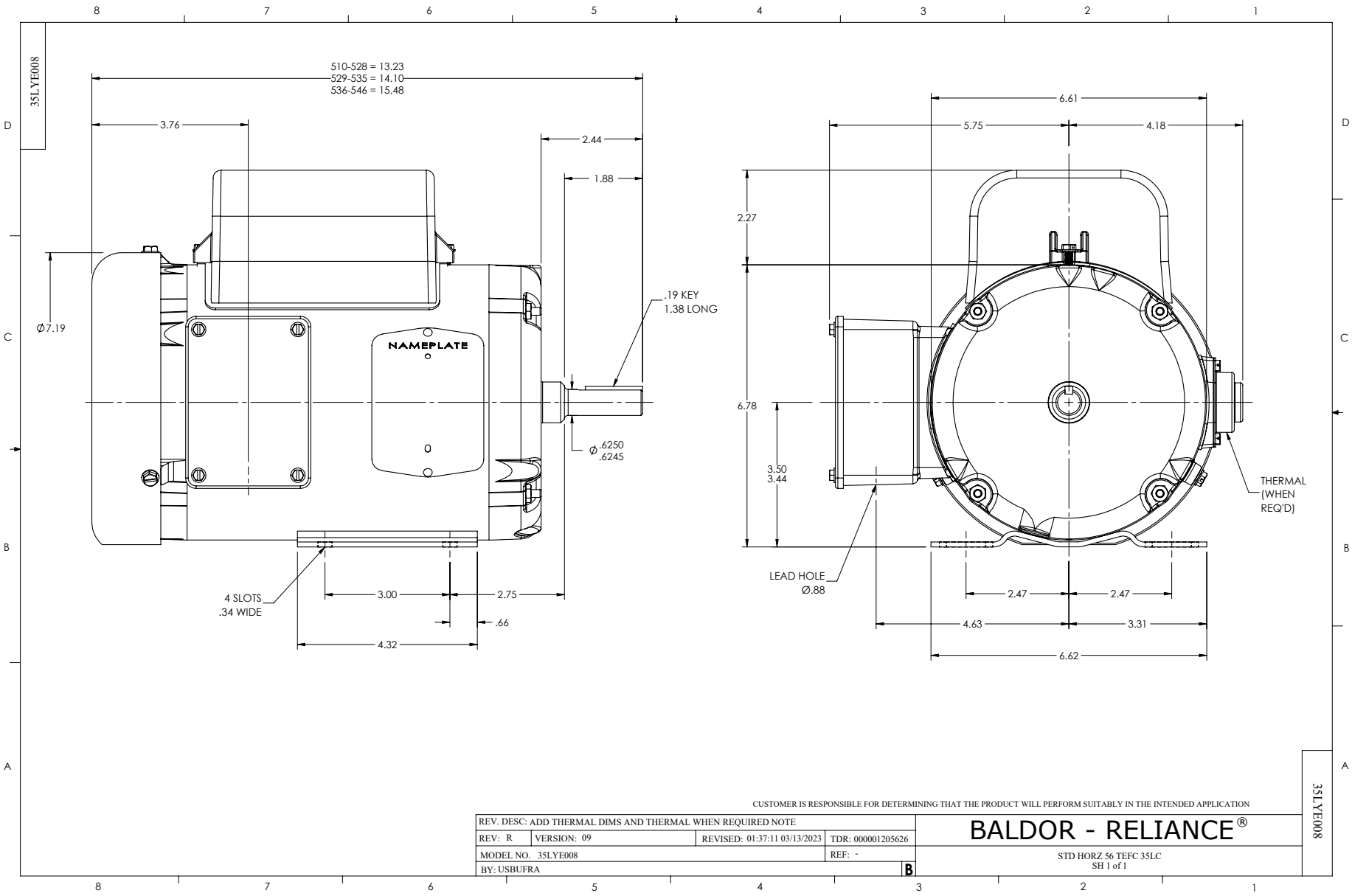
1.5 HP 1 PH 50 HZ 2910 RPM 110 V 3530LC

Typical performance - not guaranteed values.

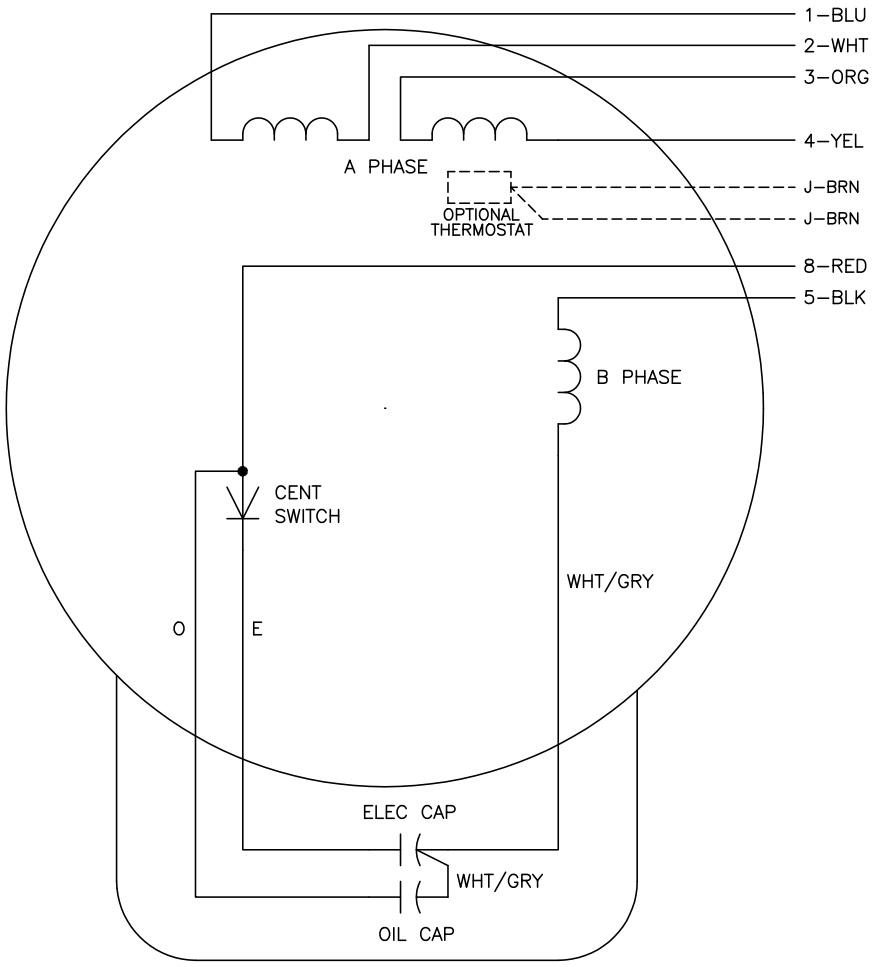
TORQUES(LB-FT): PO=8 PU=6.2 LR=9 LRA=107




11/1/2026 ACPERF, record # 103731


35LYE008
510-528 = 13.23
529-535 = 14.10
536-546 = 15.48
3.76
2.44
1.88
Ø7.19
.19 KEY
1.38 LONG
NAMEPLATE
Ø .6250
.6245
4 SLOTS
.34 WIDE
3.00
2.75
.66
4.32
6.61
5.75
4.18
2.27
6.78
3.50
3.44
THERMAL
(WHEN
REQ'D)
LEAD HOLE
Ø.88
2.47
2.47
4.63
3.31
6.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD THERMAL DIMS AND THERMAL WHEN REQUIRED NOTE
REV: R
VERSION: 09
REVISED: 01:37:11 03/13/2023
TDR: 000001205626
MODEL NO. 35LYE008
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 56 TEFC 35LC
SH 1 of 1
35LYE008

CD0055




| | LINE A | LINE B | JOIN |
|---|---|---|---|
| HIGH STD | 1 | 4,5 | 2,3,8 |
| HIGH OPP | 1 | 4,8 | 2,3,5 |
| LOW STD | 1,3,8 | 2,4,5 | – |
| LOW OPP | 1,3,5 | 2,4,8 | – |

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0055

| | | | |
|---|---|---|---|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: D | BY: JLP | REVISED: 04/08/99 1:17 | TDR: 0178636 |
| CD0055 | | FILE: AAA00007414 | MDL: – |
| | | MTL: – | TYPE LC, DV, REV, 6 LEADS |