ABB BALDOR RELIANCE

# Customer information packet

PCL1326M

3HP, 3450RPM, 1PH, 60HZ, 56C, 3532LC, OPEN, F1
Class -
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | ODP |
| **Frame** | 56C |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Division** | Not Applicable |
| **Output @ Frequency** | 3.000 HP @ 60 HZ |
| **Phase** | 1 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | UR |
| **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** | 12.500 A @ 230.0 V |
| | 13.700 A @ 208.0 V |
| **Design Code** | L |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 78.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 12.5 a |
| **Insulation Class** | B |
| **Inverter Code** | Not Inverter |
| **KVA Code** | G |

## Part Detail

| | |
|---|---|
| **Revision** | T |
| **Type** | AC |
| **Mech. spec.** | 35T970 |
| **Base** | |
| **Status** | NLA/A |
| **Elec. spec.** | 35WGY771 |
| **Layout** | 35LYT970 |
| **Eff. date** | 04-10-2015 |
| **CD Diagram** | CD0002A02 |
| **Poles** | 02 |
| **Leads** | 2#14 A PH,3#18 B&J |
| **Proprietary** | False |
| **Created date** | 06-22-2007 |

| | |
|---|---|
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 2 @ 14 AWG, A PH |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3532LC |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 12.94 IN |
| **Power Factor** | 95 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 0.625 IN |
| **Shaft Extension Location** | Pulley End |
| **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** | Do Not Use |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | Manual Thermal Overload |
| **Winding Thermal 1 Location** | KO |
| **Winding Thermal 2** | None |

**Nameplate**

| NP1257L | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | | | | | | | | | |
| **SPEC.** | 35T970Y771 | | | | | | | | |
| **HP** | 3 | | | | | | | | |
| **VOLTS** | 230 | | | | | | | | |
| **AMP** | 12.5 | | | | | | | | |
| **RPM** | 3450 | | | | | | | | |
| **FRAME** | 56C | | **HZ** | 60 | | **PH** | 1 | | |
| **SER.F.** | 1.15 | **CODE** | G | **DES** | L | **CL** | B | | |
| **NEMA-NOM-EFF** | 78 | **PF** | 95 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | | | | | | | | | |
| **DE** | 6205 | **ODE** | 6203 | | | | | | |
| **ENCL** | OPEN | **SN** | | | | | | | |

**Parts List**

| Part number | Description | Quantity |
|---|---|---|
| SA111042 | SA 35T970Y771 | 1.000 ea |
| RA102421 | RA 35T970Y771 | 1.000 ea |
| OC3035F09SP | CYL OIL CAP 35MFD/370V | 1.000 ea |
| TPBRT41DB | THERMAL 1PH 1.25 MAN 120CWELDED | 1.000 ea |
| EC1216C06SP | ELEC CAP, 216-259 MFD, 250V, 2.06D X 4. | 1.000 ea |
| WD3006A01 | RSS-2-103JT 2W 10K RES. METAL OXIDE 5% | 1.000 ea |
| TP5059 | GENERIC WELDED THERMAL, 7" LEAD KIT | 1.000 ea |
| NS2512A01 | INSULATOR, CONDUIT BOX X | 1.000 ea |
| 35CB3006A68 | 35 CB .50 NPT @ 6:00, 1.25 MTO @ 3:00 | 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 |
| 35EP3209G00 | STD FR EP OPEN-203BRG-35L OR M FRAME--LE | 1.000 ea |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 ea |
| 35CB3801 | CAPACITOR COVER, CAST | 1.000 ea |
| HA7010 | CAPACITOR RETENTION CLAMP | 1.000 ea |
| NS2501A02 | INSULATOR, CAPACITOR BOX | 1.000 ea |
| 51XB1016A08 | 10-16X 1/2HXWSSLD SERTYB | 2.000 ea |
| HW5100A03 | WAVY WASHER (W1543-017) | 1.000 ea |
| 35EP3402C00 | STD FACE MTD END PLATE OPEN NEMA 56C 05 | 1.000 ea |
| 35AD2000 | AIR BAFFLE - GALVANNEAL | 1.000 ea |
| 15XF0632A06 | 6-32 X 3/8 PHILL PAN HD TYPE F | 4.000 ea |
| 51XN1032A20 | 10-32 X 1 1/4 HX WS SL SR | 2.000 ea |
| 35CB4521 | 35 LIPPED CB LID (GALV & PHOSPH) | 1.000 ea |
| 35GS1030 | 35 GS FOR CB LID - LEXIDE | 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 |
| LB1087 | LABEL,MANUAL RESET (ROLL LABEL) | 1.000 ea |
| WD1000A15 | 3-520132-2 AMP FLAG (4M/RL NON-CANC/NON- | 4.000 ea |

| | | |
|---|---|---|
| MJ1000A02 | GREASE, POLYREX EM EXXON | 0.050 lb |
| MG1000G27 | MED CHARCOAL METALLIC GREY | 0.017 ga |
| SP5181A28 | MODEL 35 LC TORQ STAT SWITCH LEAD ASSY | 1.000 ea |
| HA3100A18 | THRUBOLT 10-32 X 9.250 | 4.000 ea |
| LB1624 | WARNING LABEL | 1.000 ea |
| LC0002 | CONNECTION LABEL | 1.000 ea |
| NP1257L | ALUM UL CC THERMAL REV MTG | 1.000 ea |
| 35PA1066 | PKG GRP, PRINT PK1008A07 | 1.000 ea |
| LB1417 | LABEL CARTON 6X4 PERFORATED BLANK ROLLS | 1.000 ea |

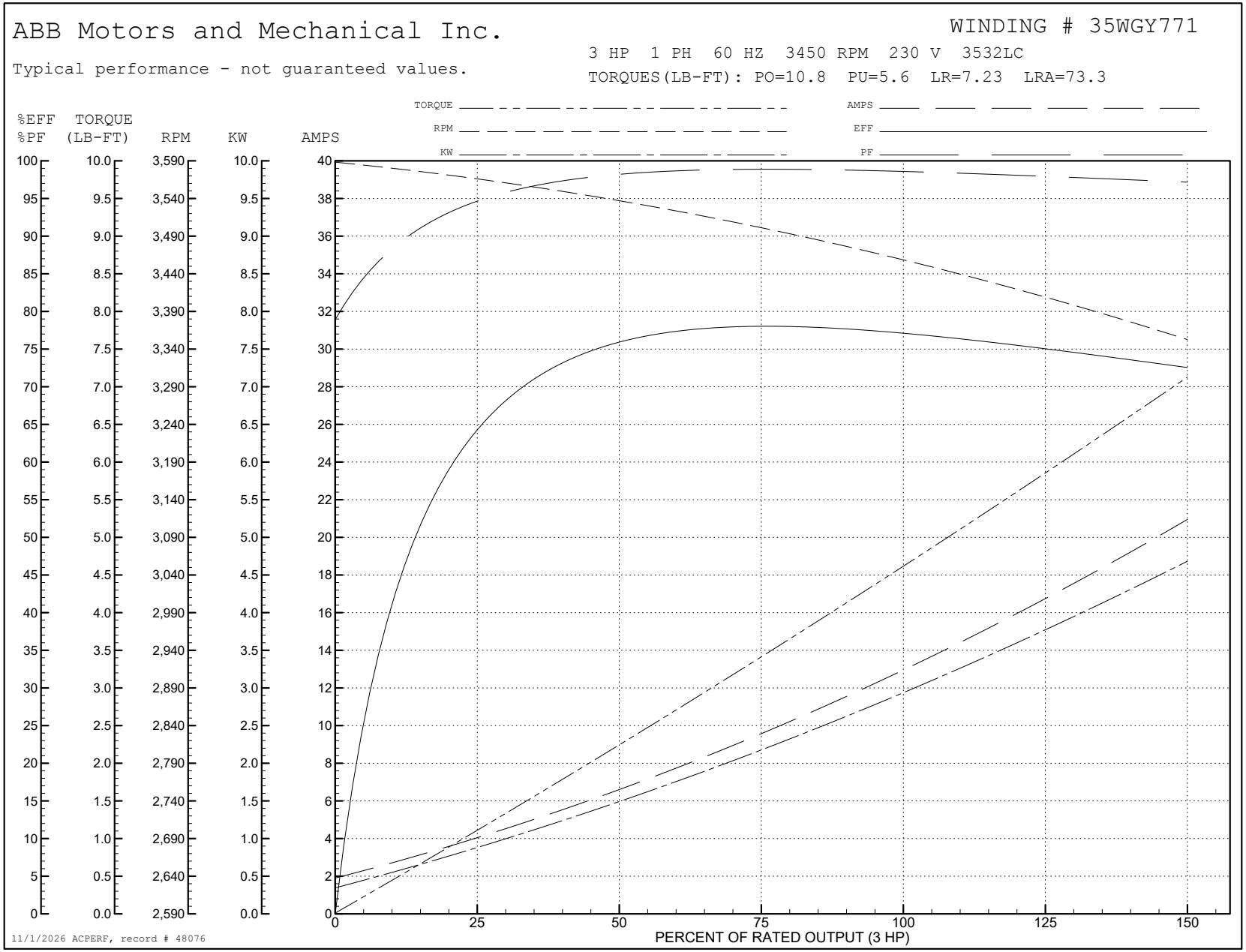
**AC Induction Motor Performance Data**
Record # 48076
Typical performance - not guaranteed values

| **Winding:** 35WGY771-R003 | **Type:** 3532LC | **Enclosure:** OPEN |
|---|---|---|

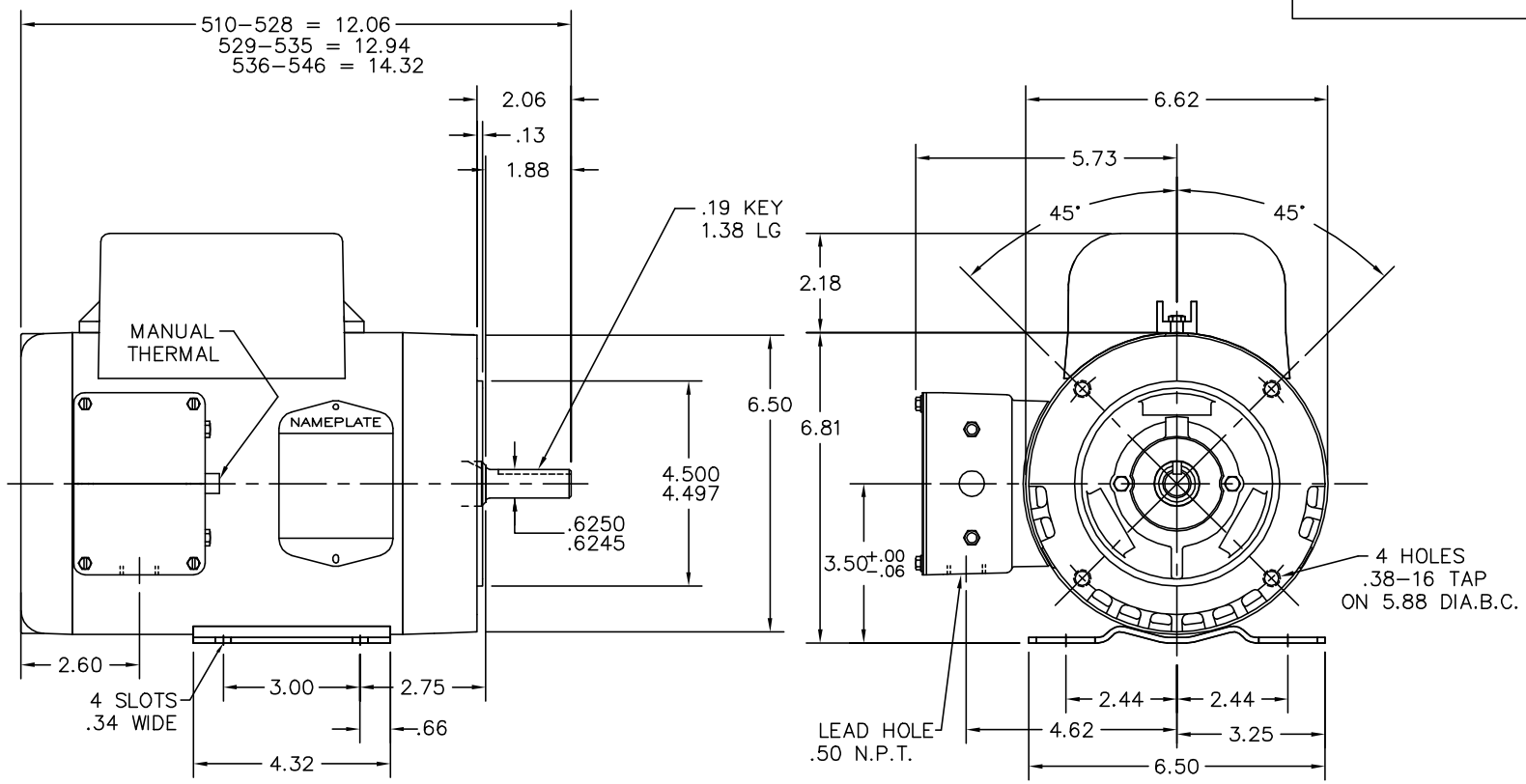
| **Nameplate Data** | | | | **230 V, 60 Hz: Single Voltage Motor** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 3 | **Full Load Torque** | 4.58 LB-FT |
| **Volts** | | | 230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 12.5 | **Breakdown Torque** | 10.8 LB-FT |
| **R.P.M.** | | | 3450 | **Pull-up Torque** | 5.6 LB-FT |
| **Hz** | 60 | **Phase** | 1 | **Locked-rotor Torque** | 7.23 LB-FT |
| **NEMA Design Code** | L | **KVA Code** | G | **Starting Current** | 73.3 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 1.77 A |
| **NEMA Nom. Eff.** | 78 | **Power Factor** | 95 | **Line-line Res. @ 25ºC** | 0.83226 Ω A Ph<br>1.5526 Ω B Ph |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 30°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 37°C |

**Load Characteristics 230 V, 60 Hz, 3 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 97 | 99 | 99 | 99 | 98 | 98 | 98 |
| **Efficiency** | 60.4 | 74.1 | 77.9 | 78.1 | 76.1 | 71.9 | 76.9 |
| **Speed** | 3564.4 | 3534.5 | 3502.1 | 3463.4 | 3413 | 3349.7 | 3433 |
| **Line amperes** | 4.06 | 6.7 | 9.48 | 12.7 | 16.5 | 21.1 | 15 |


ABB Motors and Mechanical Inc.
WINDING # 35WGY771
3 HP 1 PH 60 HZ 3450 RPM 230 V 3532LC
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=10.8 PU=5.6 LR=7.23 LRA=73.3
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/1/2026 ACPERF, record # 48076

35LYT970

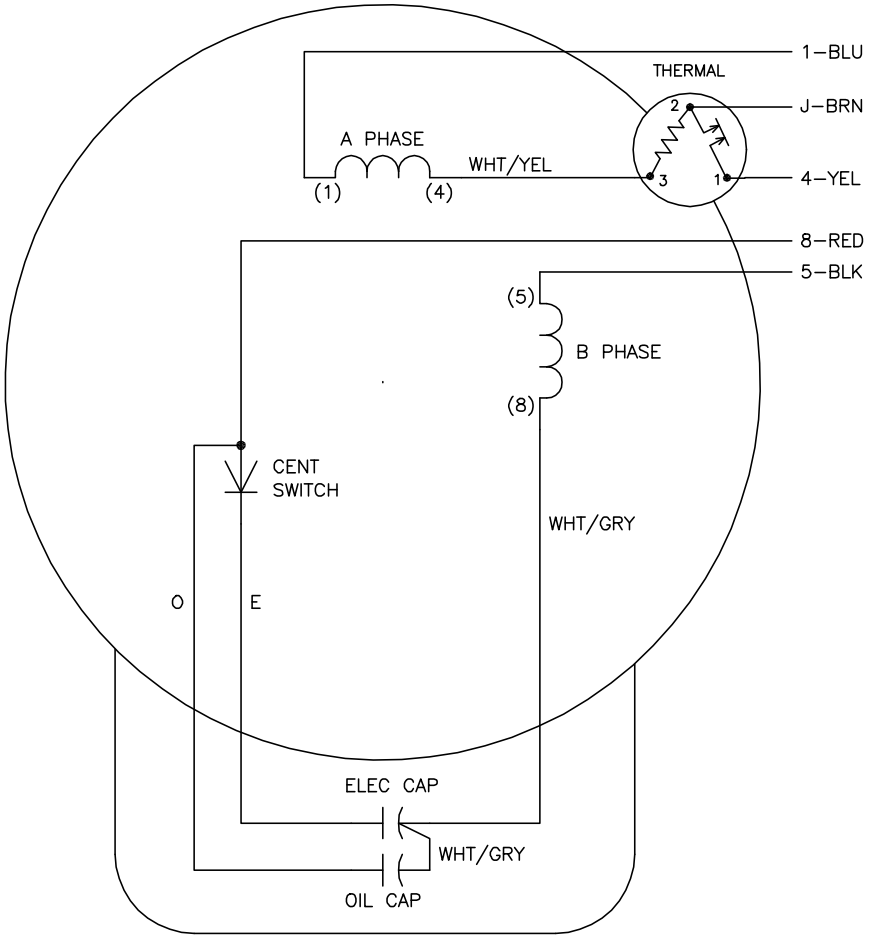



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

| | | | |
|---|---|---|---|
| REV. DESC: NEW | | | BALDOR ELECTRIC Co. |
| REV. LTR: – | BY: KCT | REVISED: 14:27:56 11/18/2003 | TDR: 317882 |
| 35LYT970 | | FILE: AAA00111457 | REF: 35LYT970 |
| | | MTL: – | HOR 56C OPEN LC W/1.25" MTO, 2 POLE "W" BASE(35BA4010) |

35LYT970

CD0002A02




| | LINE A | LINE B | JOIN |
|---|---|---|---|
| STD | 1,8 | 4 | J,5 |
| OPP | 1,5 | 4 | J,8 |

NOTES:

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

| | | | |
|---|---|---|---|
| REV. DESC: REMOVE 2–TERMINAL THERMAL DETAIL, SEE CD0002A04 | | | BALDOR ELECTRIC Co. |
| REV. LTR: D | VERSION: 01 | TDR: 000000360649 | |
| CD0002A02 | FILE: \AAA\00007\520 | REVISED: 17:11:40 04/15/2005 | TYPE LC, SV, REV, THERMAL, 5 LEADS |
| | MTL: – | BY: ENJOEP0 | |

CD0002A02