ABB BALDOR RELIANCE

# Customer information packet

## L3912T

15HP, 1770RPM, 1PH, 60HZ, 256T, 3956LC, TEFC, F
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/1/2026 8:29:43 PM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 256T |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Cap Start, Cap Run |
| **Output @ Frequency** | 15.000 HP @ 60 HZ |
| **Phase** | 1 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 208.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | C UR US |
| **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** | 58.000 A @ 230.0 V |
| | 65.000 A @ 208.0 V |
| **Design Code** | L |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 86.5 % |
| **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** | 58.0 a |
| **Insulation Class** | F |

## Part Detail

| | |
|---|---|
| **Revision** | R |
| **Type** | AC |
| **Mech. spec.** | 39T044 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 39WGX905 |
| **Layout** | 39LYT044 |
| **Eff. date** | 02-08-2024 |
| **CD Diagram** | CD1084 |
| **Poles** | 04 |
| **Leads** | 2#6 A PH,2#12 B PH |
| **Proprietary** | False |
| **Created date** | 03-12-2015 |

| | |
|---|---|
| **Inverter Code** | Not Inverter |
| **KVA Code** | E |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 2 @ 6 AWG, A PH |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3956LC |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 24.56 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** | 1.00 |
| **Shaft Diameter** | 1.625 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1720 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**

| NP1256L | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | L3912T | | | | | | | | |
| **SPEC.** | 39T044X905 | | | | | | | | |
| **HP** | 15 | | | | | | | | |
| **VOLTS** | 208-230 | | | | | | | | |
| **AMP** | 65-58 | | | | | | | | |
| **RPM** | 1720 | | | | | | | | |
| **FRAME** | 256T | **HZ** | 60 | | | **PH** | 1 | | |
| **SER.F.** | 1.00 | **CODE** | E | **DES** | L | **CLASS** | F | | |
| **NEMA-NOM-EFF** | 86.5 | **PF** | 96 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | | | | | | | | | |
| **DE** | 6309 | **ODE** | 6307 | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | |

**Parts List**

| Part number | Description | Quantity |
|---|---|---|
| SA295369 | SA 39T044X905 | 1.000 ea |
| RA281434 | RA 39T044X905 | 1.000 ea |
| OC3050F09SP | CAPACITOR 50 MFD 370 VAC | 2.000 ea |
| RE0045A12 | CONTACTOR, 40 AMP, 2 POLE, 208-240 VAC | 1.000 ea |
| EC1216D06 | ELEC CAP, 216-259MFD, 330V, 2.06D X 4.38 | 4.000 ea |
| 09FN2001A02 | ALUM EXFN, 10.25 O.D., 1.380/1.378 BORE | 1.000 ea |
| 37CB3804A43 | CONDUIT BOX MACH. | 1.000 ea |
| 37GS3015 | GASKET, CAPAC BOX | 1.000 ea |
| 51XW2520A12 | .25-20 X .75, TAPTITE II, HEX WSHR SLTD | 4.000 ea |
| HA6003A47 | CAPAC CLAMP | 1.000 ea |
| HA7419 | SPL BRACKET FOR MTG. CONTACT TO SINGLE P | 1.000 ea |
| 51XW1032A06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 7.000 ea |
| HA6003A45 | CAPAC CLAMP - CLIP (WHITE ZINC PLATED) | 2.000 ea |
| 51XB1016A08 | 10-16X 1/2HXWSSLD SERTYB | 2.000 ea |
| WD1000D90 | T&B RC2577FM,90 DEG INSUL. FLAG TERMINAL | 2.000 ea |
| WD1000A03 | 41531 AMP FLG.TERM,4M/REEL(2.5MIL) | 30.000 ea |
| WD1000D90 | T&B RC2577FM,90 DEG INSUL. FLAG TERMINAL | 1.000 ea |
| 39EP1100A21 | SPL FREP ENCL TEFC W/STATIONARY SWITCH M | 1.000 ea |
| HA4051A00 | PLASTIC CAP FOR GREASE FITTING | 1.000 ea |
| HW5100A08 | W3118-035 WVY WSHR (WB) | 1.000 ea |
| 10XN2520K28 | 1/4-20 X 1.75" HX HD SCRWGRADE 5, ZINC P | 4.000 ea |
| HW1001A25 | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 ea |
| 39EP1101A46 | STD PU EP-ENCL-TEFC | 1.000 ea |
| HA4051A00 | PLASTIC CAP FOR GREASE FITTING | 1.000 ea |
| HA3154A05 | THRUBOLT STUD 3/8-16 X 16.875 | 4.000 ea |
| XY3816A12 | 3/8-16 FINISHED NUT W/SERRATIONS | 8.000 ea |
| 09FH4000A08 | 39 FH,GRSR HOLE @12:30 | 1.000 ea |
| HA2001B08 | SPL SPACER FOR AIR DEFLECTOR .50 O.D. X | 3.000 ea |
| 10XN2520K20 | 1/4-20 X 1.25" HX HD SCRWGRADE 5, ZI | 3.000 ea |
| HW1001A25 | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 3.000 ea |
| 37CB4509 | CAPAC BOX LID, STAMPED | 1.000 ea |

| | | |
|---|---|---|
| 37GS3016 | GASKET, CAPAC BOX LID | 1.000 ea |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 6.000 ea |
| HW2501G25 | KEY, 3/8 SQ X 2.875 | 1.000 ea |
| HW4500A03 | GREASE FITTING, .125 NPT 1610(ALEMITE) 8 | 1.000 ea |
| HW4500A17 | 317400 ALEMITE GREASE RELIEF | 1.000 ea |
| SP5165 | MODEL 39 DOUBLE ARM STATIONARY SWITCH | 1.000 ea |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 1.000 ea |
| NS2605 | SWITCH INSULATOR 09 FRAME | 1.000 ea |
| MJ1000A02 | GREASE, POLYREX EM EXXON | 0.030 lb |
| HW4500A03 | GREASE FITTING, .125 NPT 1610(ALEMITE) 8 | 1.000 ea |
| HW4500A17 | 317400 ALEMITE GREASE RELIEF | 1.000 ea |
| 80XN3816L08 | 3/8-16 X 1/2 SET SCREW W/NYLON PATCH | 1.000 ea |
| MG1050G01 | CELEROL MEDIUM CHARCOAL METALLIC GRAY | 0.050 ga |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 ea |
| LB1624 | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| LC0017 | CONN LABEL-1 PHASE-SINGLE VOLT-REV ROTNO | 1.000 ea |
| NP1256L | ALUM UL CC INDUSTRIAL MOTOR A60 | 1.000 ea |
| 40PA1000 | PACKAGING GROUP | 1.000 ea |
| MN416A01 | TAG-INSTAL-MAINT no wire (2500 bx)11/25 | 1.000 ea |

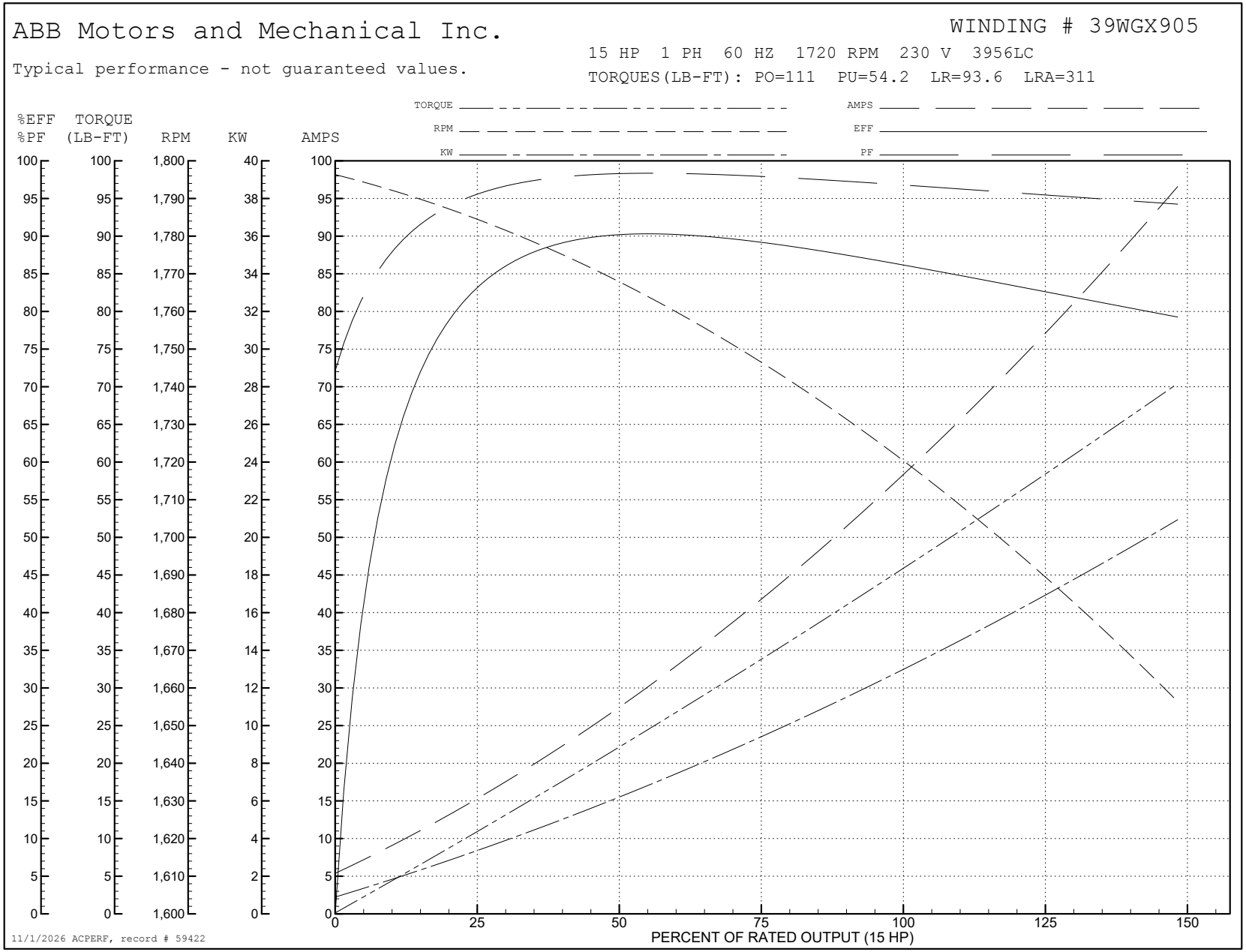
**AC Induction Motor Performance Data**
Record # 59422
Typical performance - not guaranteed values

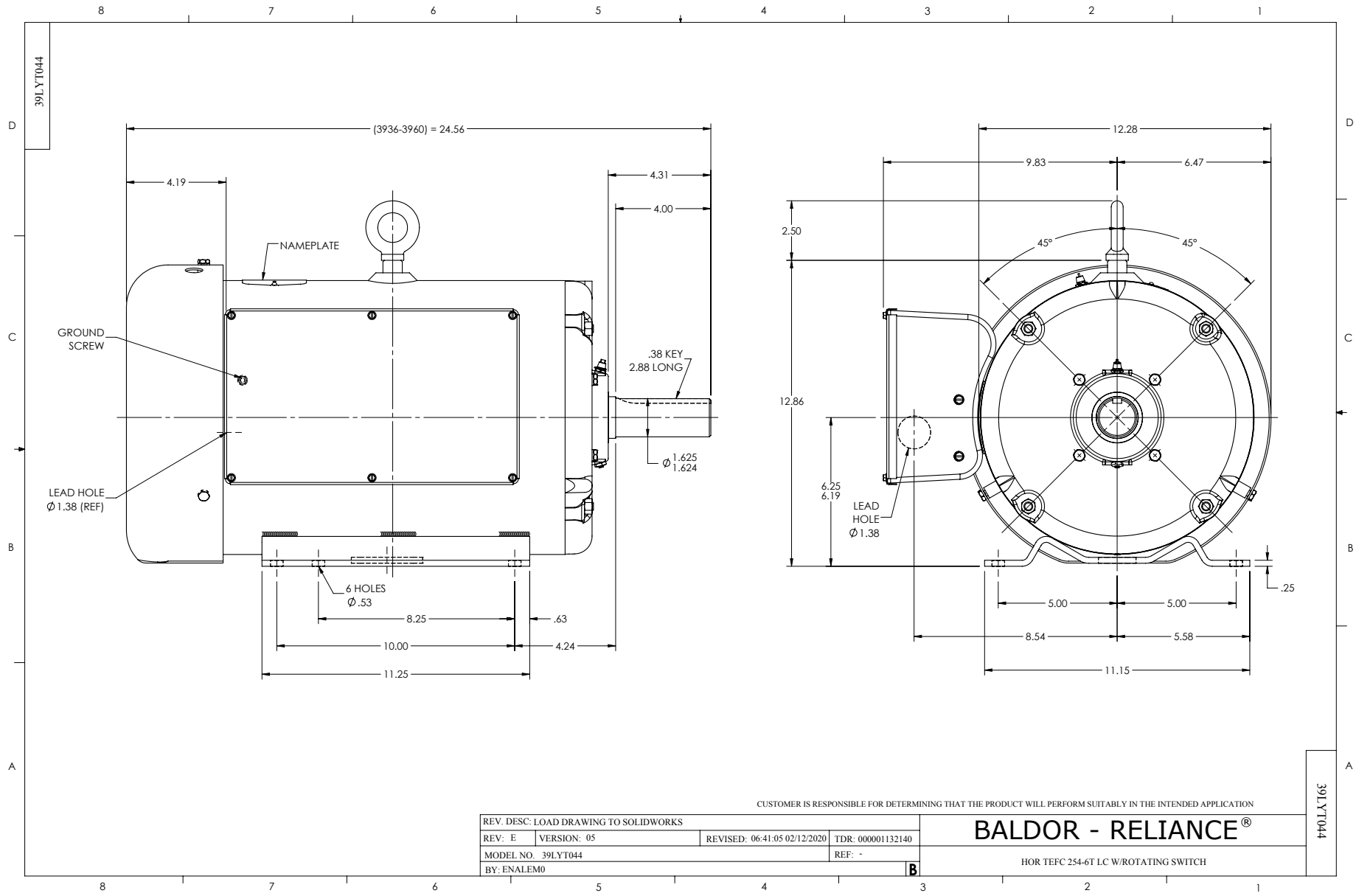
| **Winding:** 39WGX905-R001 | **Type:** 3956LC | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **230 V, 60 Hz: Single Voltage Motor** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 15 | **Full Load Torque** | 45.6 LB-FT |
| **Volts** | | | 208-230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 65-58 | **Breakdown Torque** | 111 LB-FT |
| **R.P.M.** | | | 1720 | **Pull-up Torque** | 54.2 LB-FT |
| **Hz** | 60 | **Phase** | 1 | **Locked-rotor Torque** | 93.6 LB-FT |
| **NEMA Design Code** | L | **KVA Code** | E | **Starting Current** | 311 A |
| **Service Factor (S.F.)** | | | 1 | **No-load Current** | 4.94 A |
| **NEMA Nom. Eff.** | 86.5 | **Power Factor** | 96 | **Line-line Res. @ 25ºC** | 0.12074 Ω A Ph<br>0.37139 Ω B Ph |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 100°C |

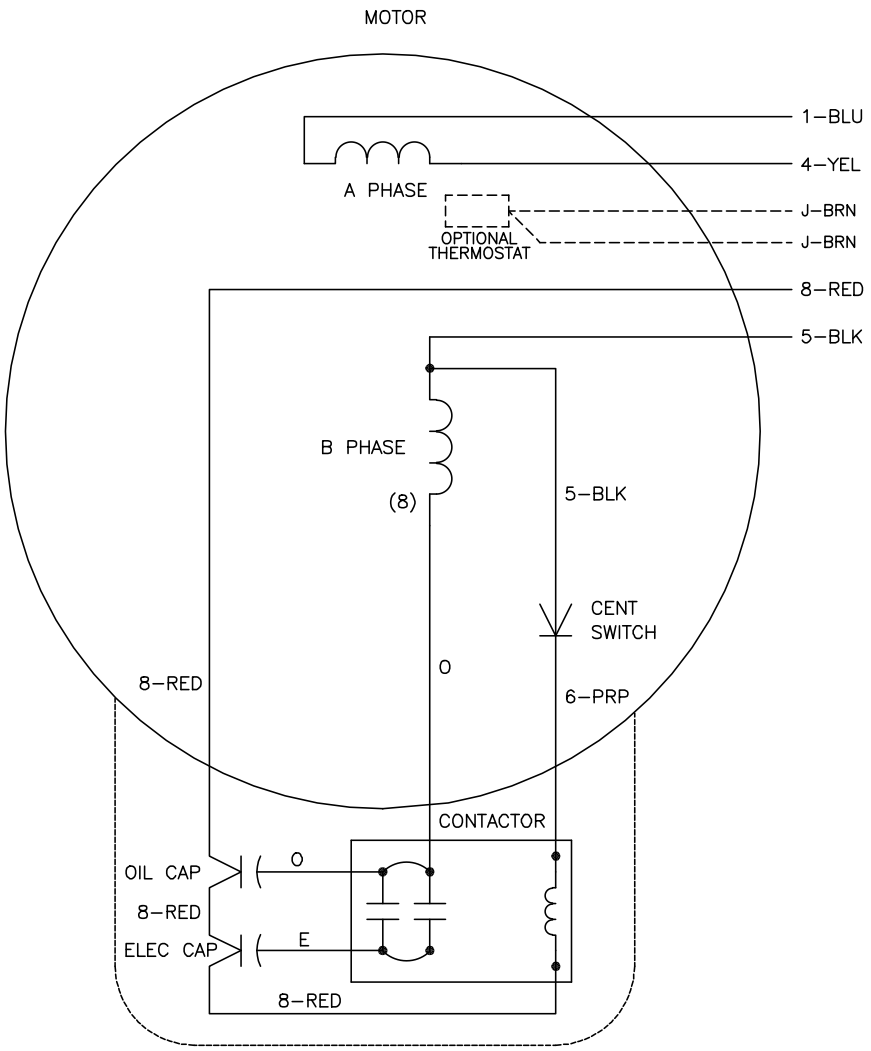
**Load Characteristics 230 V, 60 Hz, 15 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 96 | 98 | 98 | 97 | 96 | 94 |
| **Efficiency** | 81 | 88.4 | 88.8 | 87 | 83.5 | 78.8 |
| **Speed** | 1783.3 | 1766.1 | 1746.3 | 1722.4 | 1693 | 1654.6 |
| **Line amperes** | 15.7 | 28 | 42 | 57.5 | 75.3 | 97.3 |


ABB Motors and Mechanical Inc.
WINDING # 39WGX905
Typical performance - not guaranteed values.
15 HP 1 PH 60 HZ 1720 RPM 230 V 3956LC
TORQUES(LB-FT): PO=111 PU=54.2 LR=93.6 LRA=311
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
11/1/2026 ACPERF, record # 59422
PERCENT OF RATED OUTPUT (15 HP)


39LYT044
(3936-3960) = 24.56
4.19
4.31
4.00
NAMEPLATE
GROUND SCREW
.38 KEY
2.88 LONG
Ø 1.625
1.624
LEAD HOLE
Ø 1.38 (REF)
6 HOLES
Ø .53
8.25
.63
10.00
4.24
11.25
12.28
9.83
6.47
2.50
45°
45°
12.86
6.25
6.19
LEAD HOLE
Ø 1.38
.25
5.00
5.00
8.54
5.58
11.15
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: E
VERSION: 05
REVISED: 06:41:05 02/12/2020
TDR: 000001132140
MODEL NO. 39LYT044
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR TEFC 254-6T LC W/ROTATING SWITCH
39LYT044

CD1084




| | LINE A | LINE B |
|---|---|---|
| STD | 1,8 | 4,5 |
| OPP | 1,5 | 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. USE GE CR353CB2AB1, OR FURNAS 45DG20AG, OR EQUIVALENT POTENTIAL RELAY.
5. DRESS LEADS AWAY FROM RELAY TO AVOID INTERFERENCE.
6. CAPS AND RELAY MAY BE SEPERATELY MOUNTED.
7. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD1084

| | | |
|---|---|---|
| REV. DESC: CHG 'RELAY' TO 'CONTACTOR' | | |
| REV. LTR: E | VERSION: 02 | TDR: 000001259046 |
| FILE: \AAA\00029\485 | REVISED: 01:02:57 07/08/2025 | BY: ENBRIR0 |
| MTL: – | | |

BALDOR - RELIANCE®

TYPE LC, SV, REV, 4LD, RELAY W/CENT SW, ON/OFF SW

SH 1 of 1