ABB BALDOR RELIANCE

# Customer information packet

## EM2516T

25HP, 3515RPM, 3PH, 60HZ, 256T, 3938M, OPSB, F1
Class - None
Division - Not Applicable

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11/15/2026 9:49:30 AM

## Specifications

| | |
|---|---|
| **Enclosure** | OPSB |
| **Frame** | 256T |
| **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** | 25.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | CURUSEEV |
| | NEMA PREMIUM |
| | NEMA PREMIUM (OLD LOGO) |
| **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** | 56.000 A @ 230.0 V |
| | 62.000 A @ 208.0 V |
| | 28.000 A @ 460.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 91.7 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |

## Part Detail

| | |
|---|---|
| **Revision** | AL |
| **Type** | AC |
| **Mech. spec.** | 39K57 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 39WGX424 |
| **Layout** | 39LYK057 |
| **Eff. date** | 12-12-2025 |
| **CD Diagram** | CD0180 |
| **Poles** | 02 |
| **Leads** | 9#10 |
| **Proprietary** | False |
| **Created date** | 01-01-0001 |

| | |
|---|---|
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 28.0 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **IP Rating** | NONE |
| **KVA Code** | G |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 10 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3938M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 21.69 IN |
| **Power Factor** | 89 |
| **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** | 1.625 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 3515 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**

| NP3554LUA | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | EM2516T | | | **P/N** | | | | | | **ENCL** | OPSB | |
| **SPEC.** | 39K057X424G1 | **CC** | 010A | | **FRAME** | 256T | | **SER.NO.** | | | | |
| **HP** | 25 | | **CLASS** | F | **HZ** | 60 | | | | | | |
| **RPM** | 3515 | | **PH** | 3 | **DES** | A | | | | | | |
| **VOLTS** | 230/460 | | | **CODE** | G | | **ODE BRG** | 6208 | **DE BRG** | 6309 | | |
| **AMPS** | 56/28 | | | | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | **NEMA-NOM-EFF** | 91.7 | | **GREASE** | POLYREX EM | | | | |
| **PF** | 89 | **SER.F.** | 1.15 | | **CT30-60(2:1) VT3-60(20:1)** | | | | | | | |
| **USABLE AT** | 50HZ 25HP 190/380V 68/34A | | | SF 1.0 | | | | | | | | |
| **HTR-VOLTS** | **HTR-AMPS** | | **MAX. SPACE HEATER TEMP.** | | | | | | | | | |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| 39-3400 | C FACE KIT | A8 |

**AC Induction Motor Performance Data**
Record # 32011
Typical performance - not guaranteed values

| **Winding:** 39WGX424-R001 | **Type:** 3938M | **Enclosure:** OPSB |
|---|---|---|

| **Nameplate Data** | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|
| **Rated Output (HP)** | | 25 | **Full Load Torque** | 37.2 LB-FT |
| **Volts** | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | 56/28 | **Breakdown Torque** | 148 LB-FT |
| **R.P.M.** | | 3515 | **Pull-up Torque** | 54.9 LB-FT |
| **Hz** | 60 **Phase** | 3 | **Locked-rotor Torque** | 77.2 LB-FT |
| **NEMA Design Code** | B **KVA Code** | G | **Starting Current** | 197 A |
| **Service Factor (S.F.)** | | 1.15 | **No-load Current** | 8.48 A |
| **NEMA Nom. Eff.** | 91.7 **Power Factor** | 89 | **Line-line Res. @ 25ºC** | 0.38245 Ω |
| **Rating - Duty** | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 46°C |
| **S.F. Amps** | | | **Temp. Rise @ S.F. Load** | 57°C |
| | | | **Locked-rotor Power Factor** | 28.7 |
| | | | **Rotor inertia** | 0.971 lb-ft² |

**Load Characteristics 460 V, 60 Hz, 25 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 50 | 79 | 86 | 89 | 90 | 90 | 90 |
| **Efficiency** | 87.5 | 91.8 | 92.3 | 91.7 | 90.7 | 89.4 | 91.1 |
| **Speed** | 3578.1 | 3559.4 | 3538.9 | 3515.1 | 3490 | 3461 | 3500 |
| **Line amperes** | 13.1 | 15.8 | 21.8 | 28.4 | 35.6 | 43.3 | 32.7 |

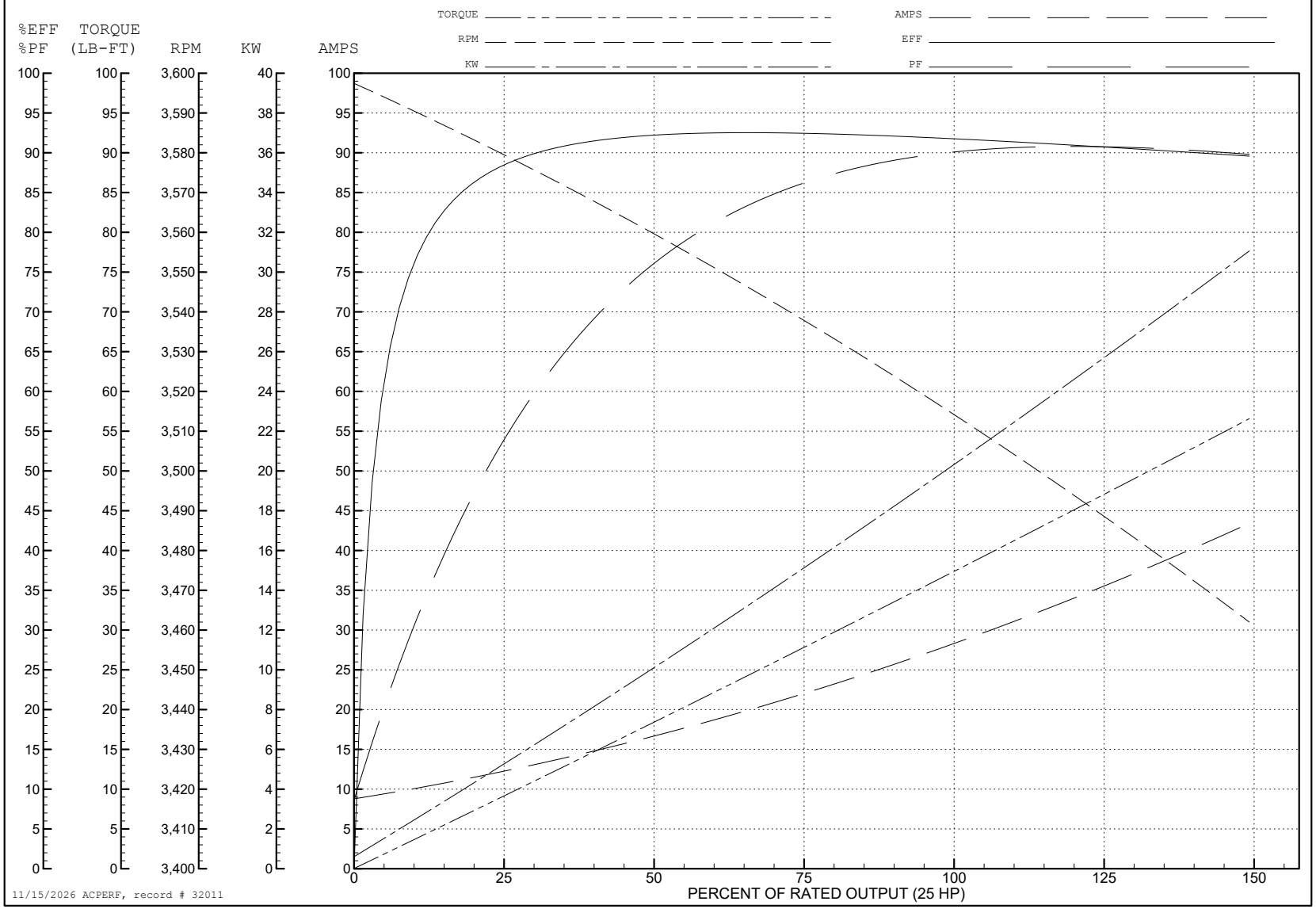
ABB Motors and Mechanical Inc.

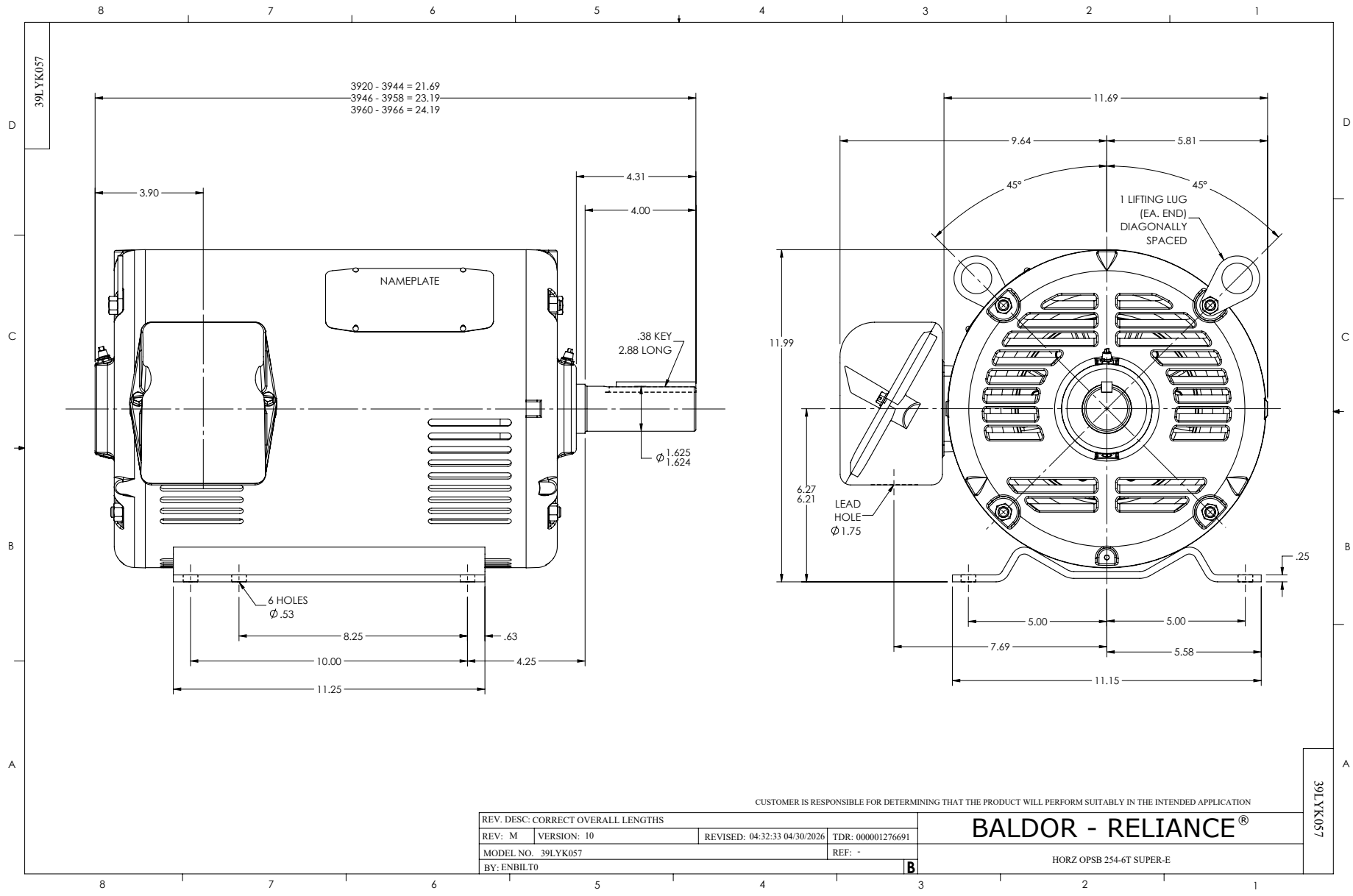
WINDING # 39WGX424

25 HP 3 PH 60 HZ 3515 RPM 460 V 3938M

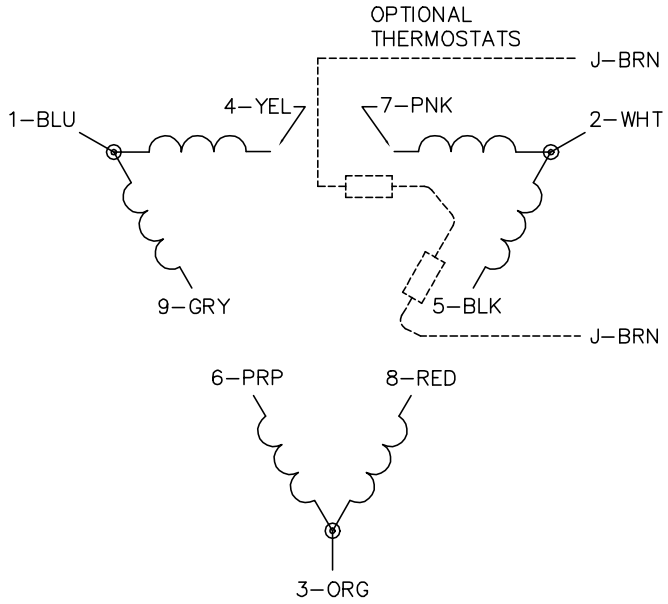
Typical performance - not guaranteed values.

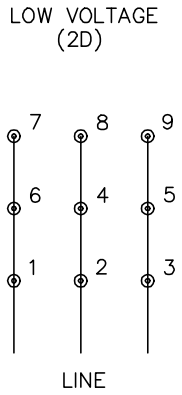
TORQUES(LB-FT): PO=148 PU=54.9 LR=77.2 LRA=197

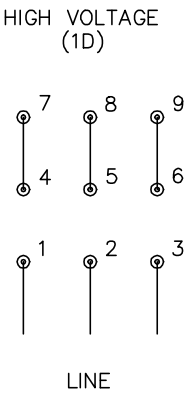



39LYK057
3920 - 3944 = 21.69
3946 - 3958 = 23.19
3960 - 3966 = 24.19
3.90
4.31
4.00
NAMEPLATE
.38 KEY
2.88 LONG
Ø 1.625
1.624
6 HOLES
Ø .53
8.25
.63
10.00
4.25
11.25
11.69
9.64
5.81
45°
45°
1 LIFTING LUG
(EA. END)
DIAGONALLY
SPACED
11.99
6.27
6.21
LEAD
HOLE
Ø 1.75
.25
5.00
5.00
7.69
5.58
11.15
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CORRECT OVERALL LENGTHS
REV: M
VERSION: 10
REVISED: 04:32:33 04/30/2026
TDR: 000001276691
MODEL NO. 39LYK057
REF: -
BY: ENBILT0
B
BALDOR - RELIANCE®
HORZ OPSB 254-6T SUPER-E
39LYK057

CD0180




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.

CD0180

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|---|---|---|
| REV. DESC: ADD CLASS CONN00000007 | | |
| REV. LTR: D | VERSION: 01 | TDR: 000001099922 |
| FILE: \AAA\00005\148 | REVISED: 10:25:29 02/19/2019 | BY: ENBRIR0 |
| MTL: – | | |

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1