ABB BALDOR RELIANCE

# Customer information packet

## CEM2524T

15HP, 1180RPM, 3PH, 60HZ, 284TC, OPSB, F1

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11/16/2026 4:24:18 PM

## Specifications

| | |
|---|---|
| **Enclosure** | OPSB |
| **Frame** | 284TC |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 15.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1200 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 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** | 20.500 A @ 460.0 V |
| | 41.000 A @ 230.0 V |
| | 42.000 A @ 208.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 91.7 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 20.5 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |

## Part Detail

| | |
|---|---|
| **Revision** | D |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 40WGX775 |
| **Layout** | 40LYD102 |
| **Eff. date** | 01-31-2025 |
| **CD Diagram** | CD0005 |
| **Poles** | 06 |
| **Leads** | 9#10 |
| **Proprietary** | False |
| **Created date** | 02-20-2020 |

| | |
|---|---|
| **IP Rating** | NONE |
| **KVA Code** | G |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 4038M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 6 |
| **Overall Length** | 23.81 IN |
| **Power Factor** | 75 |
| **Product Family** | General Purpose |
| **Pulley Face Code** | C-Face |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.875 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Speed** | 1180 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**

| NP2138L | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | CEM2524T | | **P/N** | | | **ENCLOSURE** | OPSB | | | | | |
| **SPEC.** | 40-0000785 | **CC** | 010A | **FRAME** | 284TC | **S/N** | | | | | | |
| **HP** | 15 | | **CLASS** | F | **HZ** | 60 | | | | | | |
| **RPM** | 1180 | | **PH** | 3 | **DES** | B | | | | | | |
| **VOLT** | 230/460 | | | | **KVA-CODE** | G | **ODE BRG** | 6309 | **DE BRG** | 6311 | | |
| **AMP** | 41/20.5 | | | | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | **GREASE** | POLYREX EM | | | | | | | |
| **NEMA-NOM-EFF** | 91.7 | **PF** | 75 | **SER.F.** | 1.15 | | | | | | | |
| **HTR-VOLTS** | | **HTR-AMPS** | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 30818
Typical performance - not guaranteed values

| **Winding:** 40WGX775-R001 | **Type:** 4038M | **Enclosure:** OPSB |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 15 | **Full Load Torque** | 66.8 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 41/20.5 | **Breakdown Torque** | 185 LB-FT |
| **R.P.M.** | | | 1180 | **Pull-up Torque** | 87.7 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 105 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | G | **Starting Current** | 116 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 10.1 A |
| **NEMA Nom. Eff.** | 91.7 | **Power Factor** | 75 | **Line-line Res. @ 25ºC** | 0.67748 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 26°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 31°C |
| | | | | **Locked-rotor Power Factor** | 34 |
| | | | | **Rotor inertia** | 4.65 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 15 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 37 | 58 | 69 | 75 | 78 | 79 | 77 |
| **Efficiency** | 85.5 | 90.7 | 91.8 | 91.8 | 91.2 | 89.9 | 91.4 |
| **Speed** | 1195.6 | 1191.7 | 1187.6 | 1182.8 | 1177.5 | 1169.8 | 1180 |
| **Line amperes** | 11.1 | 13.4 | 16.6 | 20.4 | 24.8 | 30.7 | 23 |

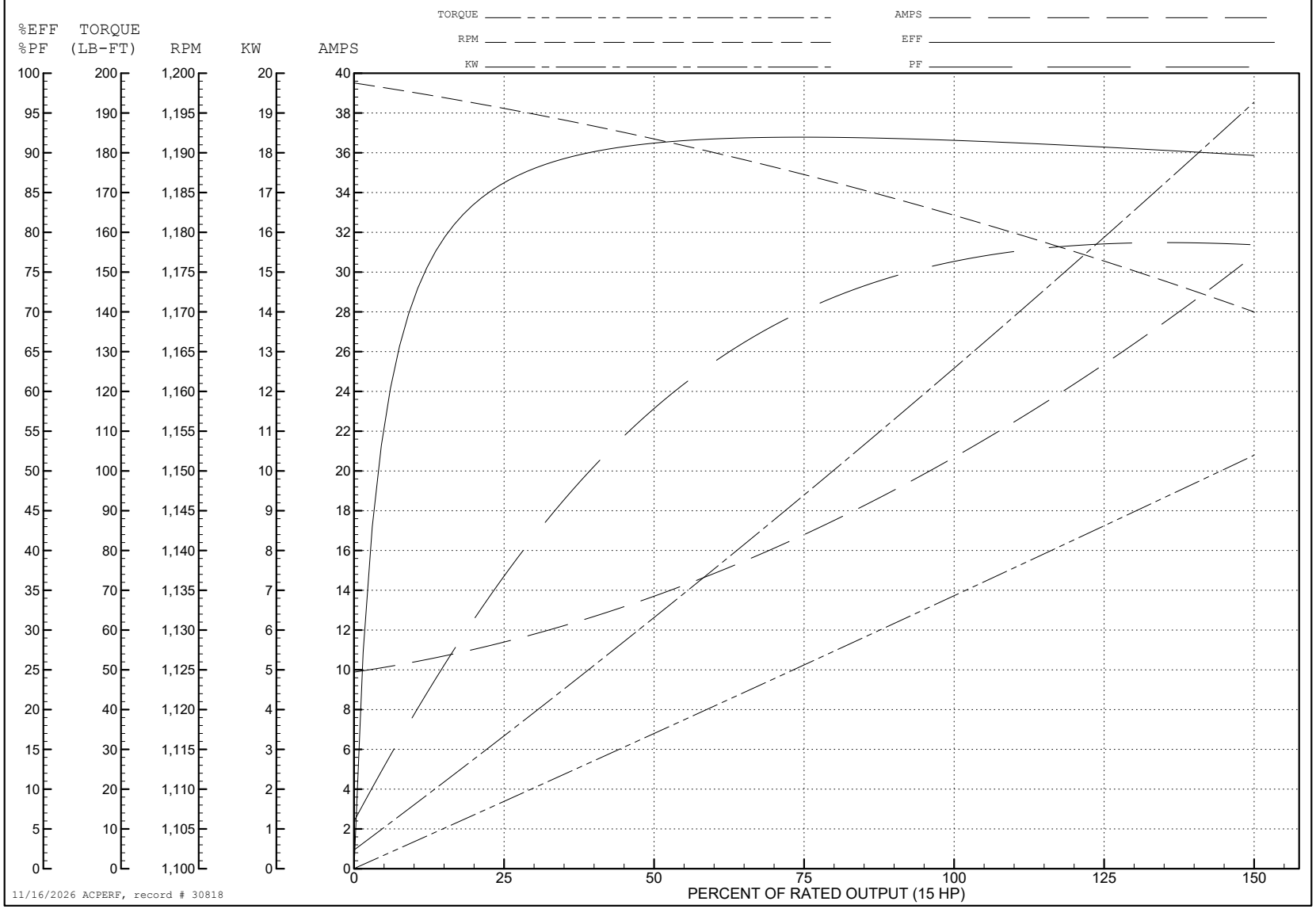
ABB Motors and Mechanical Inc.

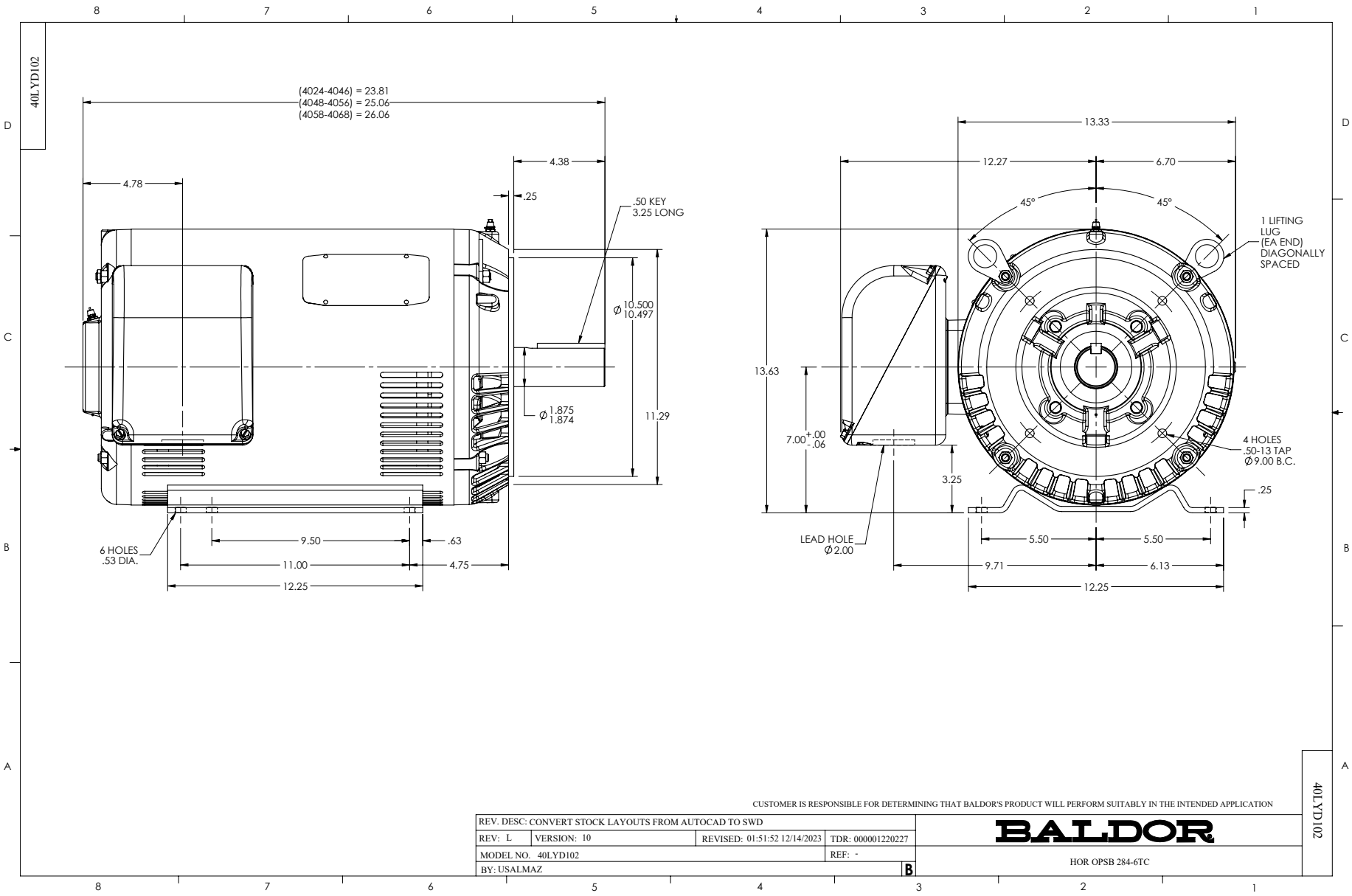
WINDING # 40WGX775

15 HP 3 PH 60 HZ 1180 RPM 460 V 4038M

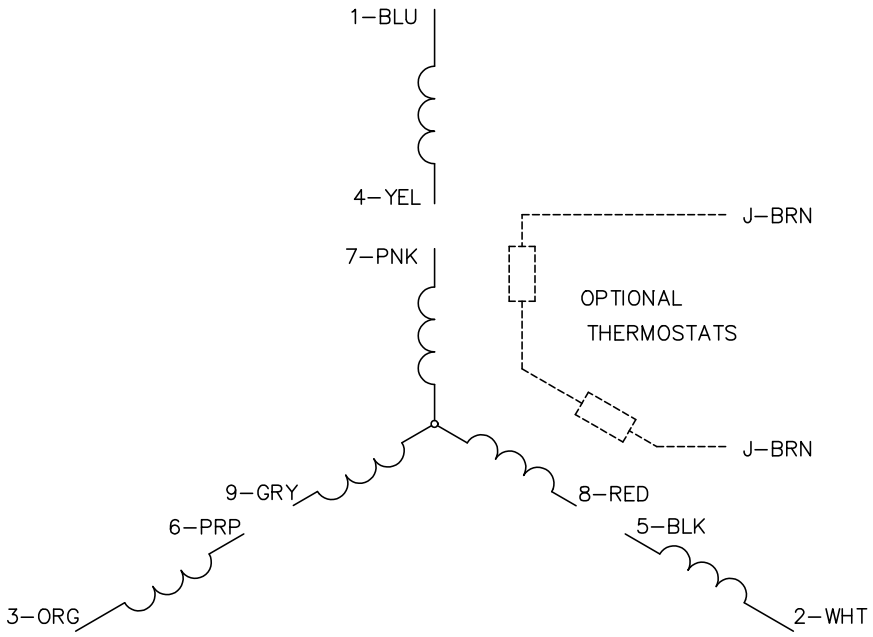
Typical performance - not guaranteed values.

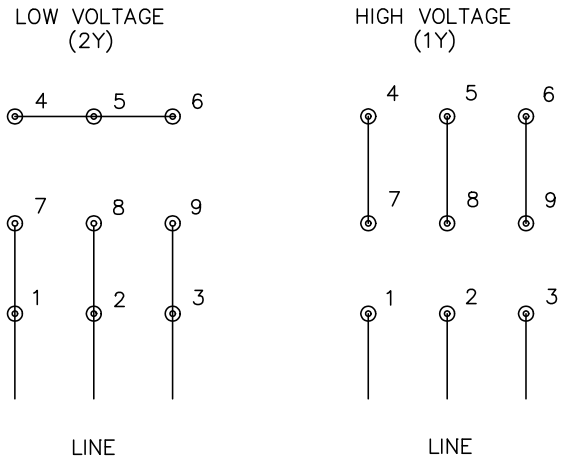
TORQUES(LB-FT): PO=185 PU=87.7 LR=105 LRA=116




40LYD102
(4024-4046) = 23.81
(4048-4056) = 25.06
(4058-4068) = 26.06
4.78
4.38
.25
.50 KEY
3.25 LONG
Ø 10.500
10.497
Ø 1.875
1.874
11.29
6 HOLES
.53 DIA.
9.50
.63
11.00
4.75
12.25
13.33
12.27
6.70
45°
45°
1 LIFTING
LUG
(EA END)
DIAGONALLY
SPACED
13.63
7.00 +.00 -.06
4 HOLES
.50-13 TAP
Ø 9.00 B.C.
3.25
.25
LEAD HOLE
Ø 2.00
5.50
5.50
9.71
6.13
12.25
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD
REV: L
VERSION: 10
REVISED: 01:51:52 12/14/2023
TDR: 000001220227
MODEL NO. 40LYD102
REF: -
BY: USALMAZ
B
BALDOR
HOR OPSB 284-6TC
401LYD102

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 |