ABB BALDOR RELIANCE

# Customer information packet

## CEM2532T

25HP, 1180RPM, 3PH, 60HZ, 324TC, OPSB, F1

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## Specifications

| | |
|---|---|
| **Enclosure** | OPSB |
| **Frame** | 324TC |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 25.000 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 |
| **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** | 70.000 A @ 208.0 V |
| | 68.000 A @ 230.0 V |
| | 34.000 A @ 460.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 93.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 34.0 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **IP Rating** | NONE |

## Part Detail

| | |
|---|---|
| **Revision** | C |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 40WGX192 |
| **Layout** | 40LYH006 |
| **Eff. date** | 02-12-2024 |
| **CD Diagram** | CD0180 |
| **Poles** | 06 |
| **Leads** | 9#10 |
| **Proprietary** | False |
| **Created date** | 02-20-2020 |

| | |
|---|---|
| **KVA Code** | J |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 4072M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 6 |
| **Overall Length** | 27.69 IN |
| **Power Factor** | 76 |
| **Product Family** | General Purpose |
| **Pulley Face Code** | C-Face |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 2.125 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.** | CEM2532T | | **P/N** | | | | **ENCLOSURE** | OPSB | | | | |
| **SPEC.** | 40-0000784 | **CC** | 010A | **FRAME** | 324TC | | **S/N** | | | | | |
| **HP** | 25 | | **CLASS** | F | **HZ** | 60 | | | | | | |
| **RPM** | 1180 | | **PH** | 3 | **DES** | A | | | | | | |
| **VOLT** | 230/460 | | | | **KVA-CODE** | J | **ODE BRG** | 6309 | **DE BRG** | 6312 | | |
| **AMP** | 68/34 | | | | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | **GREASE** | POLYREX EM | | | | | | |
| **NEMA-NOM-EFF** | 93 | **PF** | 76 | **SER.F.** | 1.15 | | | | | | | |
| **HTR-VOLTS** | | **HTR-AMPS** | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 81243
Typical performance - not guaranteed values

| **Winding:** 40WGX192-R001 | **Type:** 4072M | **Enclosure:** OPSB |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 25 | **Full Load Torque** | 111 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 68/34 | **Breakdown Torque** | 410 LB-FT |
| **R.P.M.** | | | 1180 | **Pull-up Torque** | 205 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 217 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | J | **Starting Current** | 236 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 16.7 A |
| **NEMA Nom. Eff.** | 93 | **Power Factor** | 76 | **Line-line Res. @ 25ºC** | 0.312 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 40°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 48°C |
| | | | | **Locked-rotor Power Factor** | 30.9 |
| | | | | **Rotor inertia** | 8.82 lb-ft² |

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

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 36 | 57 | 70 | 76 | 79 | 80 | 78 |
| **Efficiency** | 87 | 91.2 | 92.4 | 92.7 | 92.3 | 91.5 | 92.5 |
| **Speed** | 1196 | 1192 | 1188 | 1185 | 1181 | 1176 | 1183 |
| **Line amperes** | 18.5 | 22.3 | 27.4 | 33.5 | 40.3 | 47.8 | 37.6 |

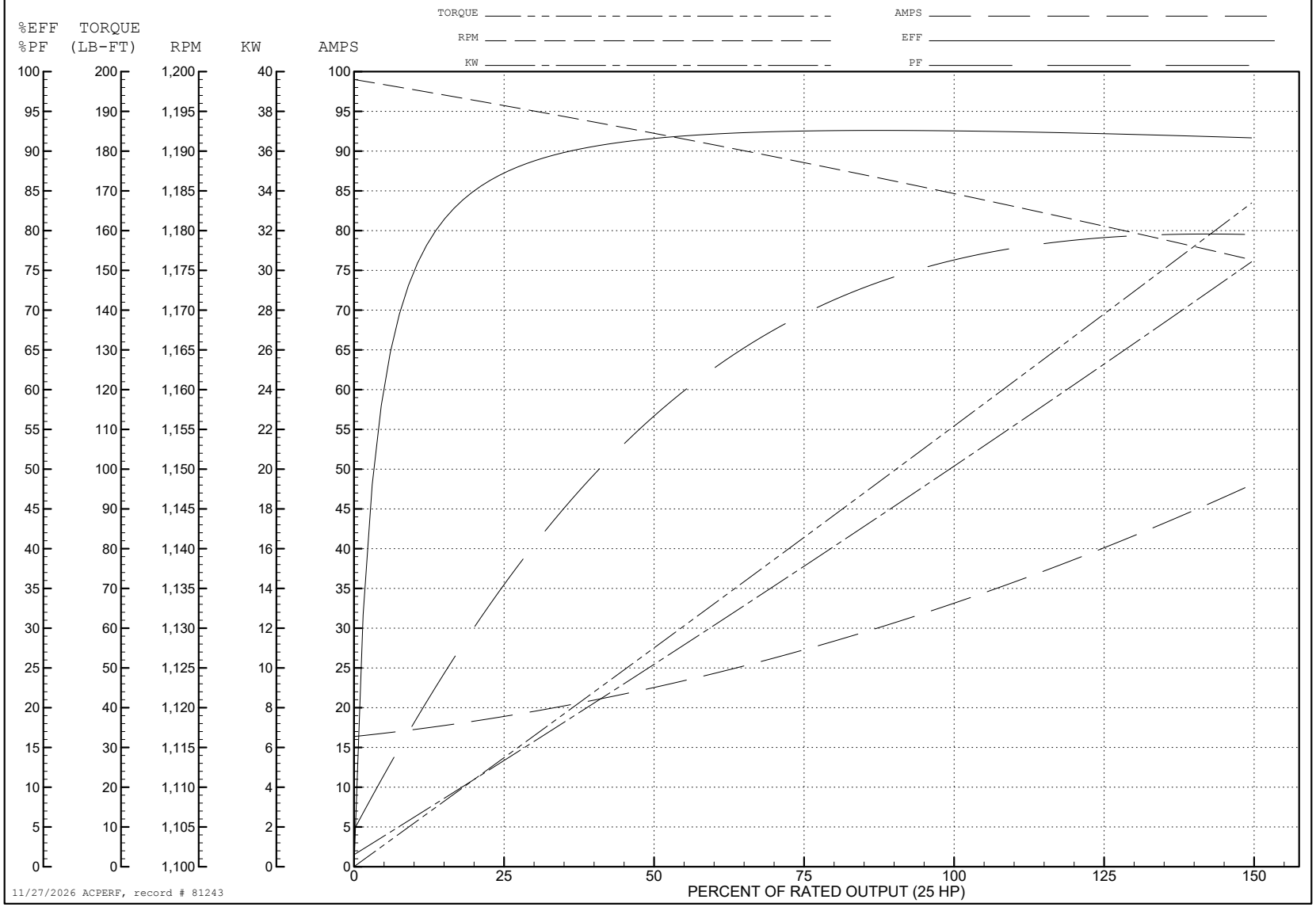
ABB Motors and Mechanical Inc.

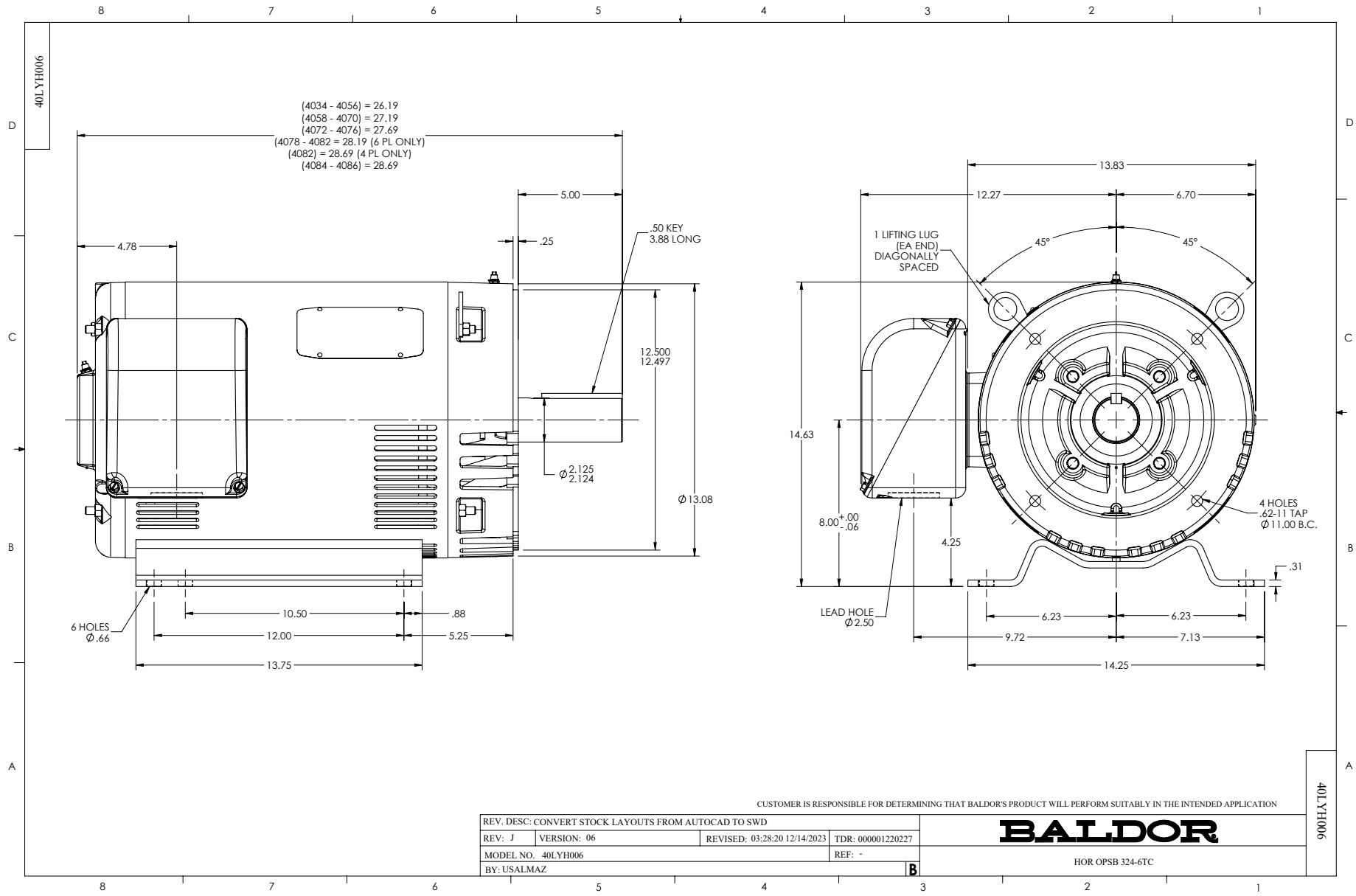
WINDING # 40WGX192

25 HP 3 PH 60 HZ 1180 RPM 460 V 4072M

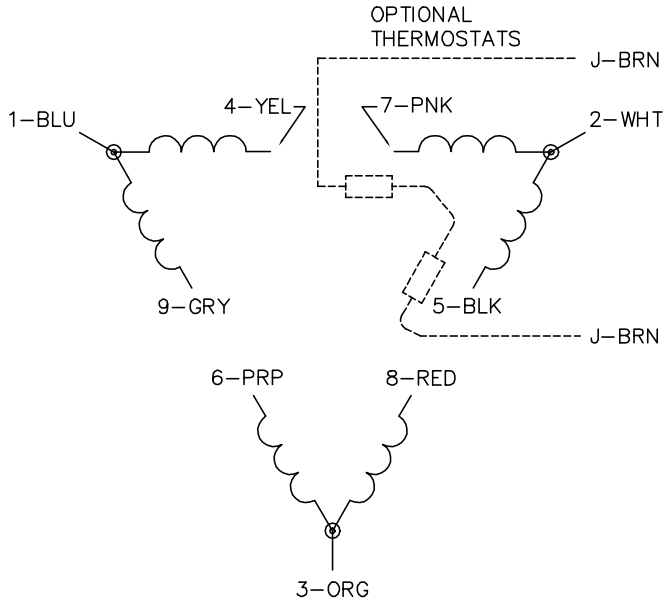
Typical performance - not guaranteed values.

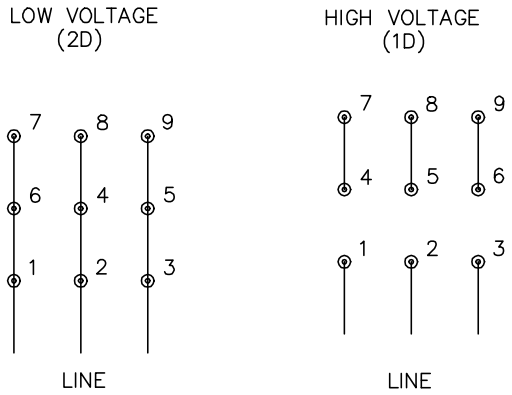
TORQUES(LB-FT): PO=410 PU=205 LR=217 LRA=236




40LYH006
(4034 - 4056) = 26.19
(4058 - 4070) = 27.19
(4072 - 4076) = 27.69
(4078 - 4082 = 28.19 (6 PL ONLY)
(4082) = 28.69 (4 PL ONLY)
(4084 - 4086) = 28.69
5.00
.25
.50 KEY
3.88 LONG
4.78
12.500
12.497
Ø2.125
2.124
Ø13.08
6 HOLES
Ø.66
10.50
.88
12.00
5.25
13.75
13.83
12.27
6.70
1 LIFTING LUG
(EA END)
DIAGONALLY
SPACED
45°
45°
14.63
8.00 +.00 -.06
4.25
4 HOLES
.62-11 TAP
Ø11.00 B.C.
.31
LEAD HOLE
Ø2.50
6.23
6.23
9.72
7.13
14.25
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: J
VERSION: 06
REVISED: 03:28:20 12/14/2023
TDR: 000001220227
MODEL NO. 40LYH006
REF: -
BY: USALMAZ
B
BALDOR
HOR OPSB 324-6TC
40LYH006

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

| | | |
|---|---|---|
| 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