

# ABB BALDOR RELIANCE III

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## Customer information packet

### BSM80C-4150AA

BSM80C-4150AA T'STAT RESOLVER

**Specifications**

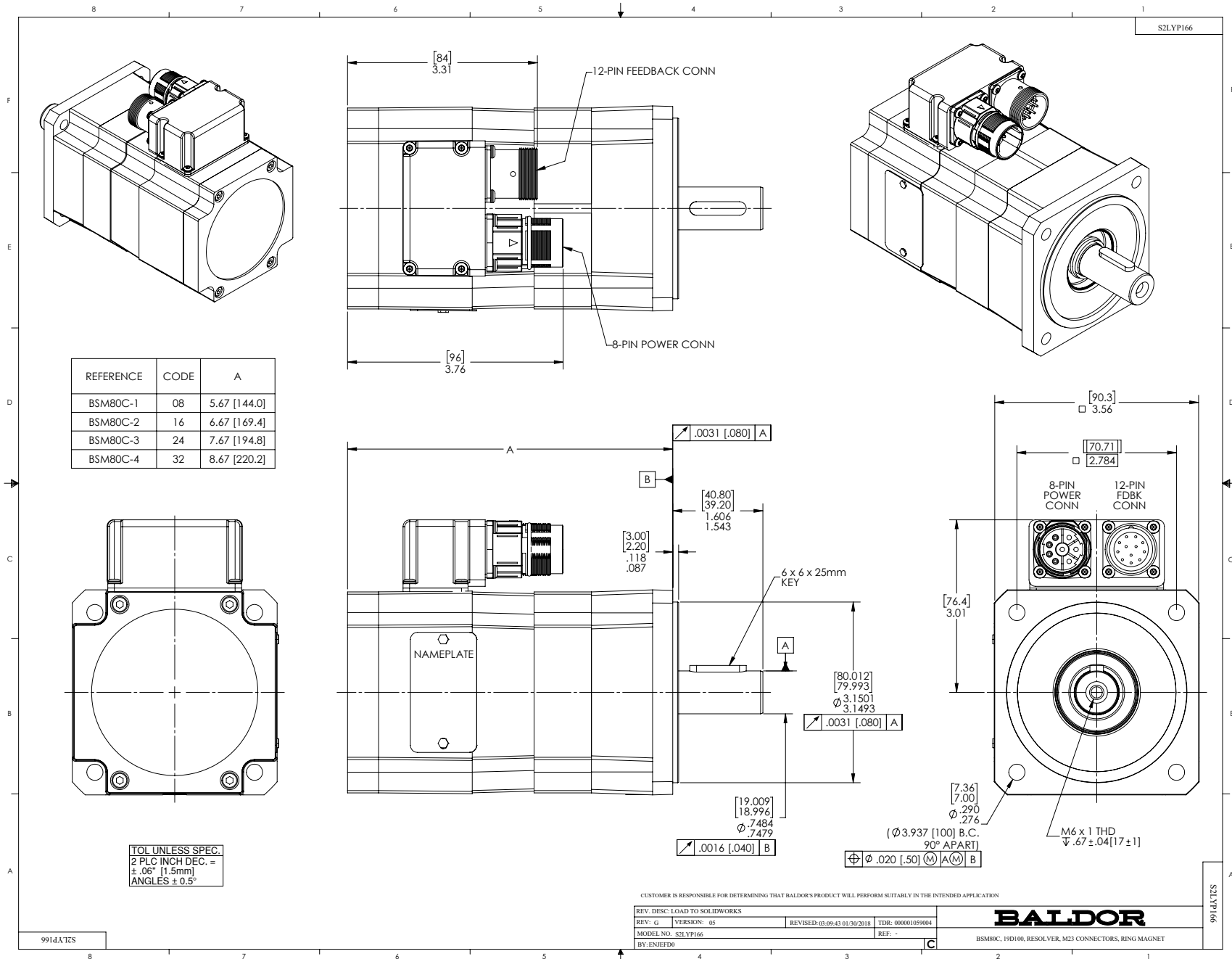
|                                      |                 |
|--------------------------------------|-----------------|
| <b>Enclosure</b>                     | TENV            |
| <b>Nameplate Speed</b>               | 4000            |
| <b>Agency Approvals</b>              | CE              |
|                                      | CSA             |
|                                      | TUV             |
|                                      | UR              |
|                                      | WEEE            |
| <b>Base Indicator</b>                | Bracket Mounted |
| <b>Dimensional Drawing Numbers</b>   | S2LYP166        |
| <b>Frame</b>                         | D100D           |
| <b>Motor Lead Quantity/Wire Size</b> | 3 @ 18 AWG      |
| <b>Motor Standards</b>               | IEC             |
| <b>Mounting Arrangement</b>          | F1              |
| <b>Nameplate Output</b>              | 1.73KW          |
| <b>Shaft Rotation</b>                | Reversible      |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | AB         |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | S2P166     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | S2WGW071   |
| <b>Layout</b>       | S2LYP166   |
| <b>Eff. date</b>    | 05-29-2026 |
| <b>CD Diagram</b>   | CD0006A02  |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 3#18       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 01-01-0001 |

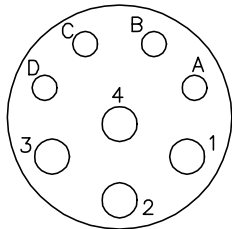
**Nameplate**

| NP2864L                |               |    |    |    |      |            |    |   |  |
|------------------------|---------------|----|----|----|------|------------|----|---|--|
| CAT.NO.                | BSM80C-4150AA |    |    |    |      |            |    |   |  |
| BLANK                  |               |    |    |    |      |            |    |   |  |
| SPEC.                  | S2P166W071    |    |    |    |      |            |    |   |  |
| MFG.NO.                |               |    |    |    |      |            |    |   |  |
| TORQ CONT STALL        | 4.3 NM        |    |    |    |      |            |    |   |  |
| CUR CONT STALL/A RMS   | 3.17          |    |    |    |      |            |    |   |  |
| POWER                  | 0.9KW         |    |    |    |      |            |    |   |  |
| RATED SPEED/RPM(1/MIN) | 2000          |    |    |    |      |            |    |   |  |
| RATED BUS VOLTS        | 320           |    |    |    |      |            |    |   |  |
| PEAK CUR/A RMS         | 9.54          |    |    |    |      |            |    |   |  |
| MAX SPEED/RPM(1/MIN)   | 7000          |    |    |    | AMB. |            | 25 |   |  |
| CLASS                  | F             | IP | 54 | IC | 410  | MOTOR MASS |    | 8 |  |

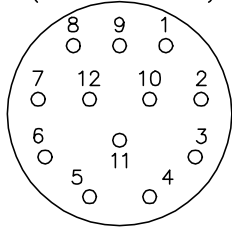


CD1321

8 PIN THREADED CONNECTOR  
(CRIMP STYLE)  
(INSERTION SIDE)



12 PIN THREADED CONNECTOR  
(CRIMP STYLE)  
(INSERTION SIDE)



MOTOR CONNECTIONS

| PIN | FUNCTION         | INTERNAL/EXTERNAL MARKINGS |
|-----|------------------|----------------------------|
| A   | THERMAL SWITCH   | YELLOW                     |
| B   | THERMAL SWITCH   | YELLOW                     |
| C   | BRAKE (OPTIONAL) | BLACK (* RED)              |
| D   | BRAKE (OPTIONAL) | BLACK                      |
| 1   | U                | BLACK OR T1                |
| 2   | GROUND           | GREEN OR **GREEN/YELLOW    |
| 3   | W                | BLUE OR T3                 |
| 4   | V                | RED OR T2                  |

\* WHEN REQUIRED  
\*\*CE MOTORS REQUIRE GREEN/YELLOW GROUND

RESOLVER CONNECTIONS

| PIN | FUNCTION  | INTERNAL WIRE COLOR |
|-----|-----------|---------------------|
| 1   | REF HI R1 | RED/WHITE           |
| 2   | REF LO R2 | YELLOW/WHITE        |
| 3   | COS+ S1   | RED                 |
| 4   | COS- S3   | BLACK               |
| 5   | SINE- S4  | BLUE                |
| 6   | SINE+ S2  | YELLOW              |

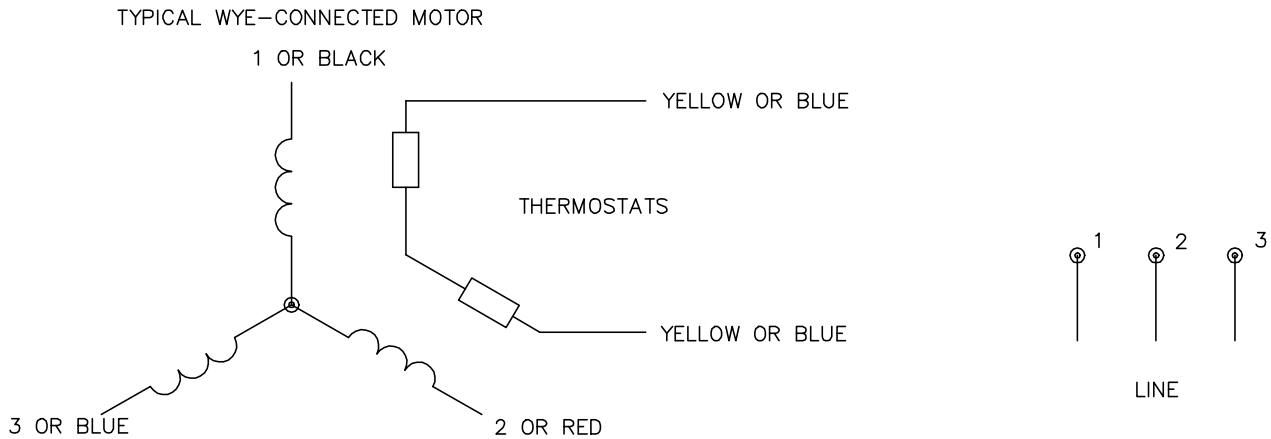
|                                                |                                |                   |
|------------------------------------------------|--------------------------------|-------------------|
| REV. DESC: ADD CE NOTE AND GREEN/YELLOW GROUND |                                |                   |
| REV. LTR: F                                    | VERSION: 03                    | TDR: 000001192301 |
| FILE: \AAA\00055\309                           | REVISED: 02: 34: 44 06/13/2022 | BY: ENDANDO       |
| MTL: —                                         |                                |                   |

**BALDOR - RELIANCE®**

BSM WIRING DIAG, POWER & RESOLVER, 8 & 12 PIN THD CONNECT.  
SH 1 of 1

CD1321

CD0006A02



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
  - 2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.

|                                                               |                      |                              |
|---------------------------------------------------------------|----------------------|------------------------------|
| REV. DESC: REMOVED "OPTIONAL" FROM PRINT, SERVO REQ'S T'STATS |                      |                              |
| REV. LTR: D                                                   | VERSION: 03          | TDR: 000000414937            |
| CD0006A02                                                     | FILE: \AAA\00068\606 | REVISED: 10:02:28 11/21/2006 |
|                                                               | MTL: -               | BY: ENJFDO                   |

**BALDOR ELECTRIC Co.**

3PH, SV, 3 LEADS, WYE CONNECTED

CD0006A02