

# ABB BALDOR RELIANCE III

---

## Customer information packet

### BSM63N-275AA

BSM63N-275AA (NEO) T'STAT, RESOLVER

**Specifications**

|                                      |                        |
|--------------------------------------|------------------------|
| <b>Enclosure</b>                     | TENV                   |
| <b>Nameplate Speed</b>               | 4000                   |
| <b>Agency Approvals</b>              | CE<br>CSA<br>TUV<br>UR |
| <b>Base Indicator</b>                | No Mounting            |
| <b>Dimensional Drawing Numbers</b>   | S1LYP100               |
| <b>Frame Material</b>                | Exposed Laminations    |
| <b>Motor Lead Quantity/Wire Size</b> | 3 @ 18 AWG             |
| <b>Motor Standards</b>               | Other                  |
| <b>Mounting Arrangement</b>          | F1                     |
| <b>Nameplate Output</b>              | 0.53KW                 |
| <b>Shaft Rotation</b>                | Reversible             |

**Part Detail**

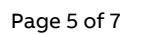
|                     |            |
|---------------------|------------|
| <b>Revision</b>     | AG         |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | S1P100     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | S1WGW034   |
| <b>Layout</b>       | S1LYP100   |
| <b>Eff. date</b>    | 07-11-2025 |
| <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**

| NP2859L                |  |              |    |    |    |     |           |   |  |
|------------------------|--|--------------|----|----|----|-----|-----------|---|--|
| CAT.                   |  |              |    |    |    |     |           |   |  |
| SPEC                   |  | S1P100W034G1 |    |    |    |     |           |   |  |
| MFG                    |  |              |    |    |    |     |           |   |  |
| TORQ CONT STALL        |  | 1.34 NM      |    |    |    |     |           |   |  |
| CUR CONT STALL/A RMS   |  | 1.89         |    |    |    |     |           |   |  |
| POWER                  |  | 0.47KW       |    |    |    |     |           |   |  |
| RATED SPEED/RPM(1/MIN) |  | 4000         |    |    |    |     |           |   |  |
| RATED BUS VOLTS        |  | 320          |    |    |    |     |           |   |  |
| PEAK CUR/A RMS         |  | 7.56         |    |    |    |     |           |   |  |
| MAX SPEED/RPM(1/MIN)   |  | 10000        |    |    |    | WT. |           | 3 |  |
| CLASS                  |  | F            | IP | 54 | IC | 410 | 25C RATED |   |  |

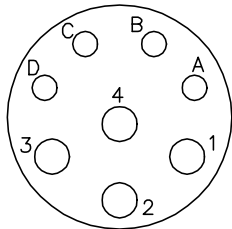
**Accessories**

| Part number      | Description                   | Multiplier |
|------------------|-------------------------------|------------|
| GBSM63-MRP070-5  | Std. Servo Gearbox Ratio 5:1  | E4         |
| GBSM63-MRP070-10 | Std. Servo Gearbox Ratio 10:1 | E4         |
| GBSM63-MRP090-25 | Std. Servo Gearbox Ratio 25:1 | E4         |

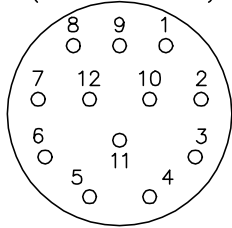


CD1321

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              |

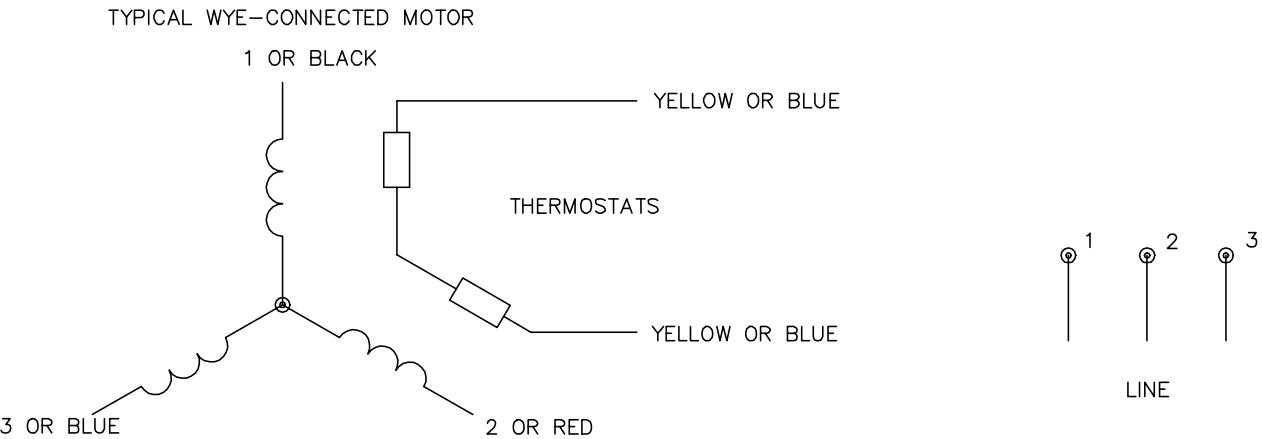
|                                                |                                |                   |
|------------------------------------------------|--------------------------------|-------------------|
| REV. DESC: ADD CE NOTE AND GREEN/YELLOW GROUND |                                |                   |
| 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