

ABB BALDOR RELIANCE III

Customer information packet BSM50N-233AA

BSM50N-233AA (NEO) T'STAT, RESOLVER

Specifications

| | |
|--------------------------------------|------------------------|
| Enclosure | TENV |
| Nameplate Speed | 4000 |
| Agency Approvals | CE CSA TUV UR |
| Base Indicator | Bracket Mounted |
| Dimensional Drawing Numbers | S5LYP037 |
| Frame Material | Exposed Laminations |
| Motor Lead Quantity/Wire Size | 3 @ 18 AWG |
| Motor Standards | Other |
| Mounting Arrangement | F1 |
| Nameplate Output | 0.36KW |
| Shaft Rotation | Reversible |

Part Detail

| | |
|---------------------|------------|
| Revision | AB |
| Type | AC |
| Mech. spec. | S5P037 |
| Base | |
| Status | PRD/A |
| Elec. spec. | S5WGW024 |
| Layout | S5LYP037 |
| Eff. date | 06-11-2025 |
| CD Diagram | CD0006A02 |
| Poles | 04 |
| Leads | 3#18 |
| Proprietary | False |
| Created date | 01-01-0001 |

Nameplate

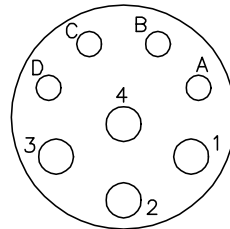
| NP2859L | | | | | | |
|-------------------------------|--------------|----|------------|-----|-----|------------------|
| CAT. | BSM50N-233AA | | | | | |
| SPEC | S5P037W024 | | | | | |
| MFG | | | | | | |
| TORQ CONT STALL | 0.91 NM | | | | | |
| CUR CONT STALL/A RMS | 2.87 | | | | | |
| POWER | 0.36KW | | | | | |
| RATED SPEED/RPM(1/MIN) | 4000 | | | | | |
| RATED BUS VOLTS | 160 | | | | | |
| PEAK CUR/A RMS | 11.5 | | | | | |
| MAX SPEED/RPM(1/MIN) | 10000 | | WT. | 2.3 | | |
| CLASS | F | IP | 54 | IC | 410 | 25C RATED |

Accessories

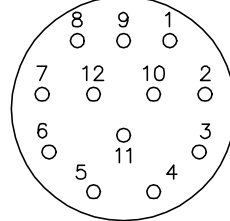
| Part number | Description | Multiplier |
|--------------------|------------------------------|-------------------|
| GBSM50-MRP050-5 | Std. Servo Gearbox Ratio 5:1 | E4 |

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 |

CD1321

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

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