

ABB BALDOR RELIANCE III

Customer information packet

BSM80C-175AA

BSM80C-175AA T'STAT, RESOLVE

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.

7/8/2026 12:36:37 AM

Specifications

Enclosure	TENV
Nameplate Speed	4000
Agency Approvals	CE CSA TUV UR
Base Indicator	Bracket Mounted
Dimensional Drawing Numbers	S2LYP166
Frame	D100D
Frame Material	Exposed Laminations
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Standards	IEC
Mounting Arrangement	F1
Nameplate Output	0.33KW
Shaft Rotation	Reversible

Part Detail

Revision	AD
Type	AC
Mech. spec.	S2P166
Base	
Status	PRD/A
Elec. spec.	S2WGW050
Layout	S2LYP166
Eff. date	05-29-2026
CD Diagram	CD0006A02
Poles	04
Leads	3#18
Proprietary	False
Created date	01-01-0001

Nameplate

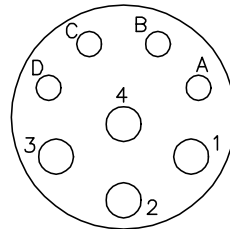
NP2864L									
CAT.NO.									
BLANK									
SPEC.	S2P166W050								
MFG.NO.									
TORQ CONT STALL	1.2 NM								
CUR CONT STALL/A RMS	1.93								
POWER	0.38KW								
RATED SPEED/RPM(1/MIN)	4000								
RATED BUS VOLTS	320								
PEAK CUR/A RMS	5.79								
MAX SPEED/RPM(1/MIN)	7000			AMB.	25				
CLASS	F	IP	54	IC	410	MOTOR MASS		4	

Accessories

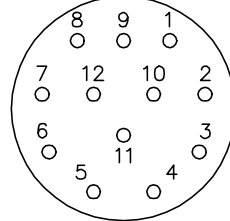
Part number	Description	Multiplier
GBSM80-MRP090-4	Std. Servo Gearbox Ratio 4:1	
GBSM80-MRP090-5	Std. Servo Gearbox Ratio 5:1	E4
GBSM80-MRP090-7	Std. Servo Gearbox Ratio 7:1	E4
GBSM80-MRP090-10	Std. Servo Gearbox Ratio 10:1	E4
GBSM80-MRP090-16	Std. Servo Gearbox Ratio 16:1	E4
GBSM80-MRP090-25	Std. Servo Gearbox Ratio 25:1	E4
GBSM80-MRP120-50	Std. Servo Gearbox Ratio 50:1	E4
GBSM80-MRP155-100	Std. Servo Gearbox Ratio 100:1	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