

ABB BALDOR RELIANCE III

Customer information packet

BSM50N-175AA

BSM50N-175AA 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	0.19KW
Shaft Rotation	Reversible

Part Detail

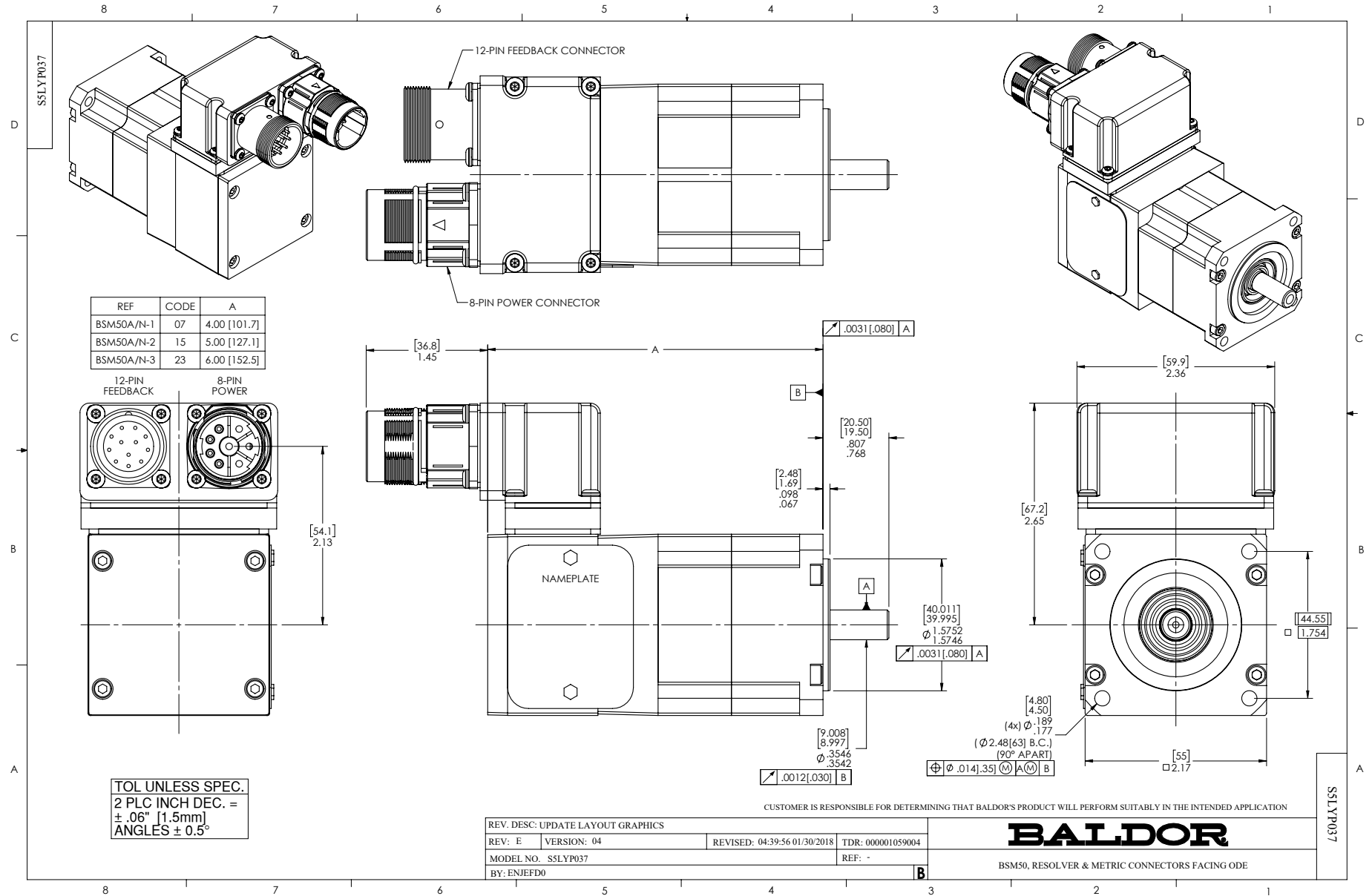
Revision	AC
Type	AC
Mech. spec.	S5P037
Base	
Status	PRD/A
Elec. spec.	S5WGW025
Layout	S5LYP037
Eff. date	06-11-2025
CD Diagram	CD0006A02
Poles	04
Leads	3#18
Proprietary	False
Created date	01-01-0001

Nameplate

NP2859L									
CAT.		BSM50N-175AA							
SPEC		S5P037W025							
MFG									
TORQ CONT STALL		0.45 NM							
CUR CONT STALL/A RMS		.79							
POWER		0.17KW							
RATED SPEED/RPM(1/MIN)		4000							
RATED BUS VOLTS		320							
PEAK CUR/A RMS		3.16							
MAX SPEED/RPM(1/MIN)		10000				WT.		2	
CLASS		F	IP	54	IC	410	25C RATED		

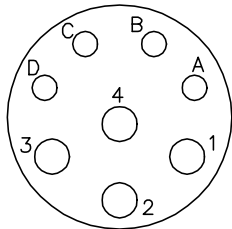
Accessories

Part number	Description	Multiplier
GBSM50-MRP050-5	Std. Servo Gearbox Ratio 5:1	E4
GBSM50-MRP050-10	Std. Servo Gearbox Ratio 10:1	E4

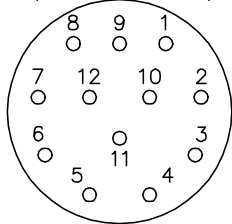


CD1321

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

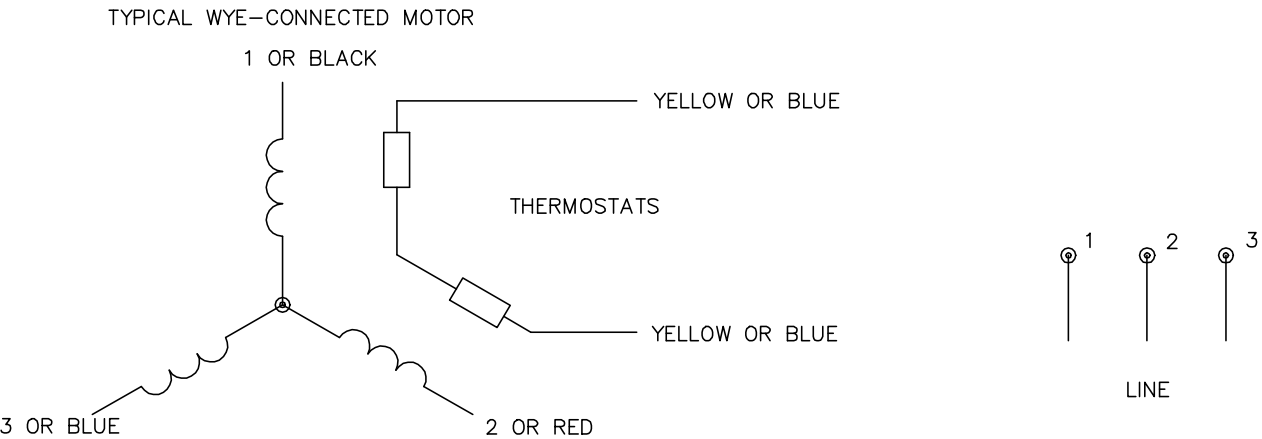
REV. DESC: ADD CE NOTE AND GREEN/YELLOW GROUND		
REV. LTR: F	VERSION: 03	TDR: 000001192301
FILE: \AAA\00055\309	REVISED: 02: 34: 44 06/13/2022	BY: ENDANDO
MTL: —		

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