

ABB BALDOR RELIANCE III

Customer information packet

BSM90N-175AA

BSM90N-175AA (NEO) T'STAT, RESOLVE

Specifications

Enclosure	TENV
Nameplate Speed	4000
Agency Approvals	CE
	CSA
	TUV
	UR
Base Indicator	Bracket Mounted
Dimensional Drawing Numbers	S3LYP100
Frame	D130D
Frame Material	Exposed Laminations
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Standards	IEC
Mounting Arrangement	F1
Nameplate Output	1.61KW
Shaft Rotation	Reversible

Part Detail

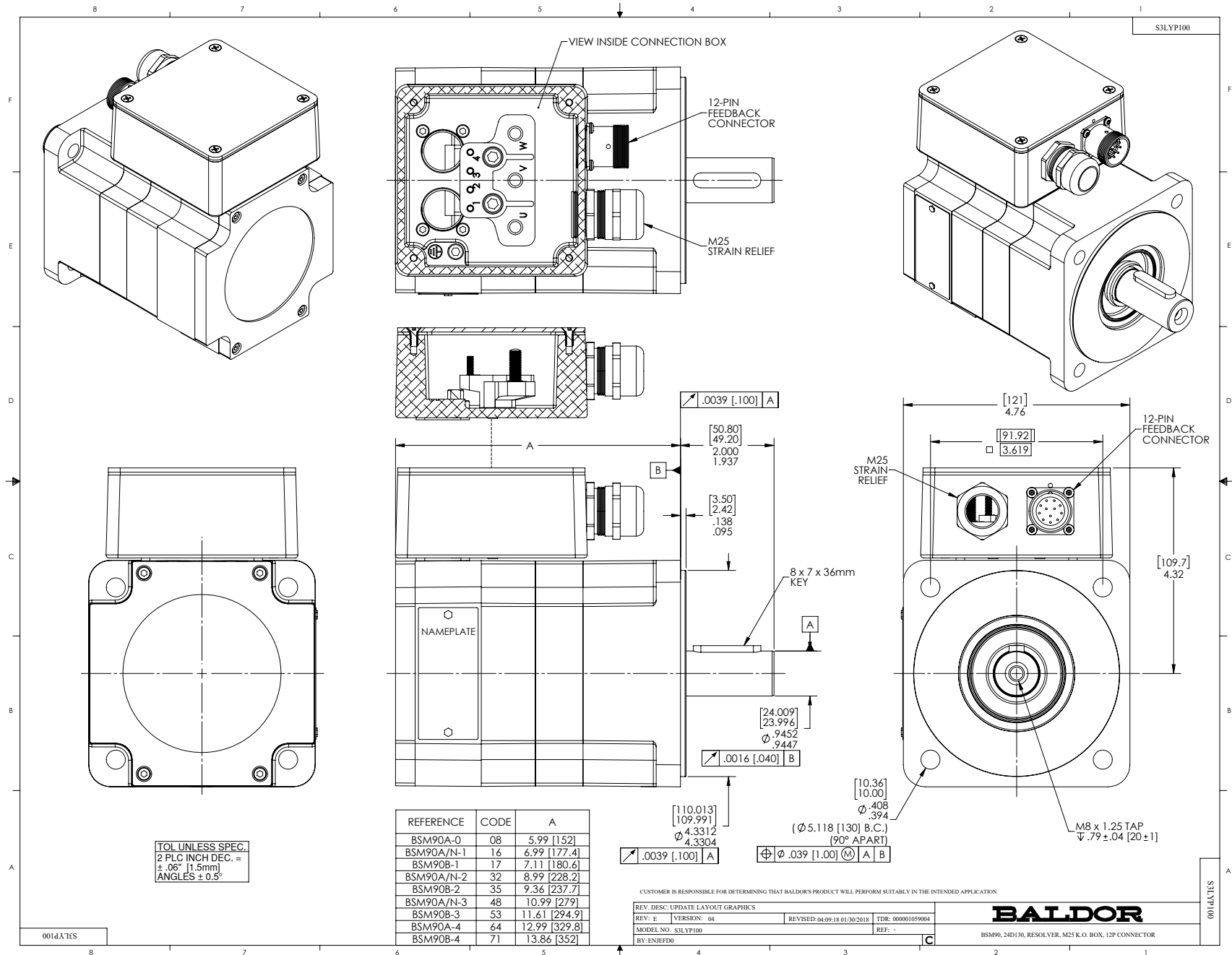
Revision	AE
Type	AC
Mech. spec.	S3P100
Base	
Status	PRD/A
Elec. spec.	S3WGW057
Layout	S3LYP100
Eff. date	07-29-2025
CD Diagram	CD0006A02
Poles	08
Leads	3#16
Proprietary	False
Created date	01-01-0001

Nameplate

NP2863L					
CAT.NO.					
SPEC.	S3P100W057G1				
MFG.NO.					
TORQ CONT STALL	6 NM				
CUR CONT STALL/A RMS	7.81				
POWER	1.61KW				
RATED SPEED/RPM(1/MIN)	4000				
RATED BUS VOLTS	320				
PEAK CUR/A RMS	31.2				
MAX SPEED/RPM(1/MIN)	4000				
IP	54	IC	410	WT.	10.4
CLASS	F	25C RATED			

Accessories

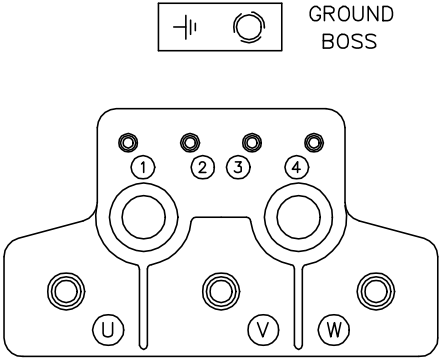
Part number	Description	Multiplier
GBSM90-MRP120-4	Std. Servo Gearbox Ratio 4:1	E4
GBSM90-MRP120-5	Std. Servo Gearbox Ratio 5:1	E4
GBSM90-MRP120-7	Std. Servo Gearbox Ratio 7:1	E4
GBSM90-MRP120-10	Std. Servo Gearbox Ratio 10:1	E4
GBSM90-MRP120-25	Std. Servo Gearbox Ratio 25:1	E4



CD1404

MOTOR CONNECTIONS

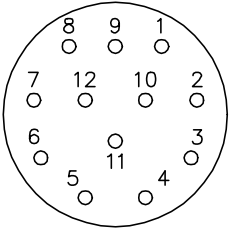
TERMINAL LABEL	FUNCTION	INTERNAL WIRE MARKING
1	THERMAL SWITCH	YELLOW
2	THERMAL SWITCH	YELLOW
3	BRAKE (OPTIONAL)	BLACK
4	BRAKE (OPTIONAL)	BLACK
⏏	GROUND	-----
U	PHASE U	T1
V	PHASE V	T2
W	PHASE W	T3



RESOLVER CONNECTIONS

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

12 PIN THREADED CONNECTOR
(INSERTION SIDE)



NOTE:
IF NO FEEDBACK, OMIT RESOLVER CONNECTIONS.

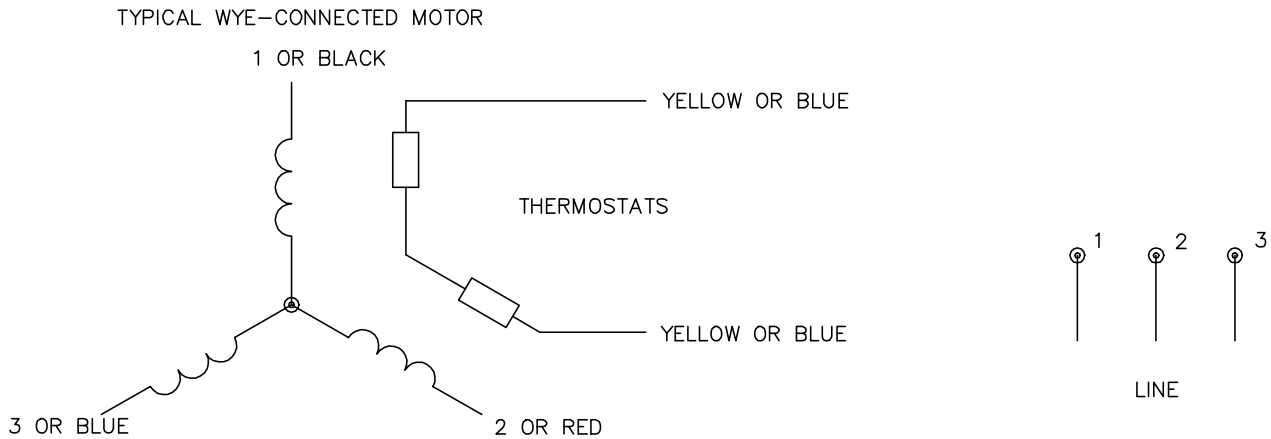
REV. DESC: ADDED OPTIONAL BLACK/WHITE COLOR TO REF-LO-R2		
REV. LTR: B	VERSION: 01	TDR: 000001151947
FILE: \AAA\00065\150	REVISED: 01:18:21 10/27/2020	BY: ENJFDO
MTL: -		

BALDOR - RELIANCE®

CONN. DIAG.-BSM,RESOLVER,BRAKE,TERMINAL BLOCK,12 PIN CONN
SH 1 of 1

CD1404

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