

ABB BALDOR RELIANCE III

Customer information packet

BSM100N-4250AA

BSM100N-4250AA (NEO) T'STAT, RESOLVER

Specifications

Enclosure	TENV
Nameplate Speed	1200
Agency Approvals	CE
	CSA
	TUV
	UR
Base Indicator	Bracket Mounted
Dimensional Drawing Numbers	S4LYP100
Frame	D165D
Frame Material	Exposed Laminations
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Standards	IEC
Mounting Arrangement	F1
Nameplate Output	4.04KW
Shaft Rotation	Reversible

Part Detail

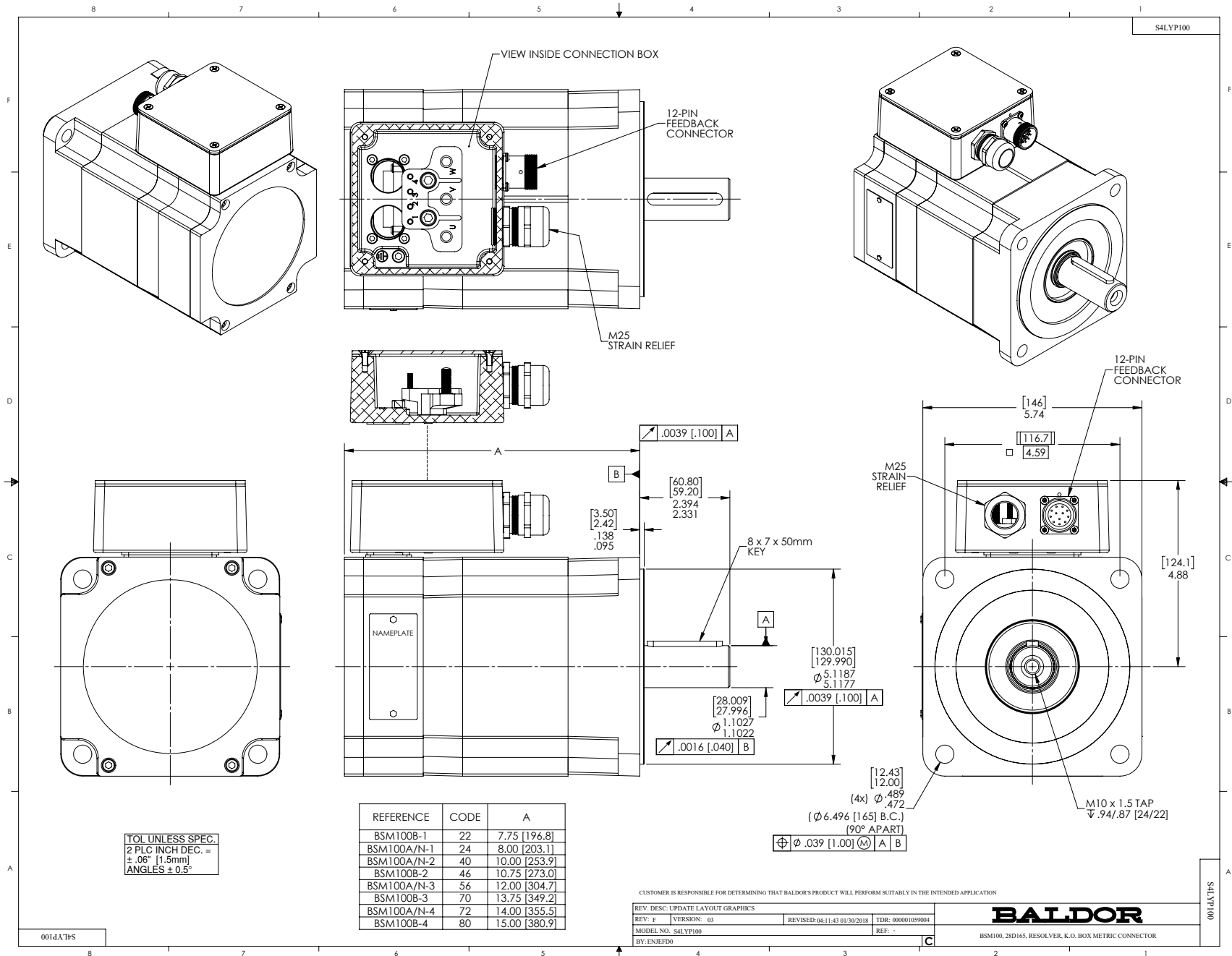
Revision	AC
Type	AC
Mech. spec.	S4P100
Base	
Status	PRD/A
Elec. spec.	S4WGW062
Layout	S4LYP100
Eff. date	08-18-2025
CD Diagram	CD0006A02
Poles	08
Leads	3#10
Proprietary	False
Created date	01-01-0001

Nameplate

NP2863L					
CAT.NO.					
SPEC.	S4P100W062G1				
MFG.NO.					
TORQ CONT STALL	40 NM				
CUR CONT STALL/A RMS	16.9				
POWER	3.77KW				
RATED SPEED/RPM(1/MIN)	1200				
RATED BUS VOLTS	320				
PEAK CUR/A RMS	67.2				
MAX SPEED/RPM(1/MIN)	4000				
IP	54	IC	410	WT.	38
CLASS	F	25C RATED			

Accessories

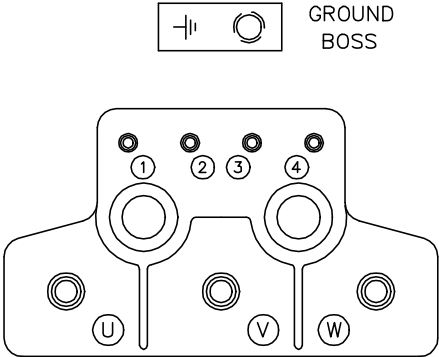
Part number	Description	Multiplier
GBSM100-MRP120-3	Std. Servo Gearbox Ratio 3:1	E4
GBSM100-MRP155-5	Std. Servo Gearbox Ratio 5:1	E4



CD1404

MOTOR CONNECTIONS

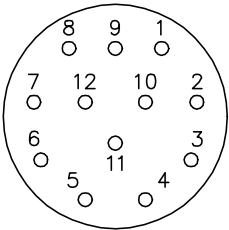
TERMINAL LABEL	FUNCTION	INTERNAL WIRE MARKING
1	THERMAL SWITCH	YELLOW
2	THERMAL SWITCH	YELLOW
3	BRAKE (OPTIONAL)	BLACK
4	BRAKE (OPTIONAL)	BLACK
⏏	GROUND	-----
U	PHASE U	T1
V	PHASE V	T2
W	PHASE W	T3



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.

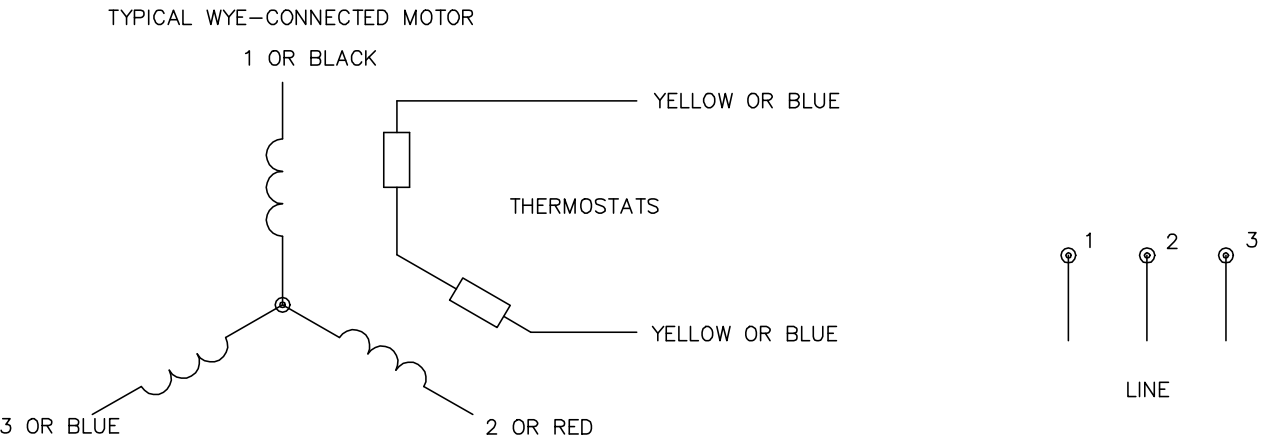
REV. DESC: ADDED OPTIONAL BLACK/WHITE COLOR TO REF-LO-R2		
REV. LTR: B	VERSION: 01	TDR: 000001151947
FILE: \AAA\00065\150	REVISED: 01:18:21 10/27/2020	BY: ENJFDO
MTL: -	© □	

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: ENJEFO

BALDOR ELECTRIC Co.

3PH, SV, 3 LEADS, WYE CONNECTED

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