

ABB BALDOR RELIANCE III

Customer information packet

BSM100N-4250AF

BSM100N-4250AF T'STAT ENCODER

Specifications

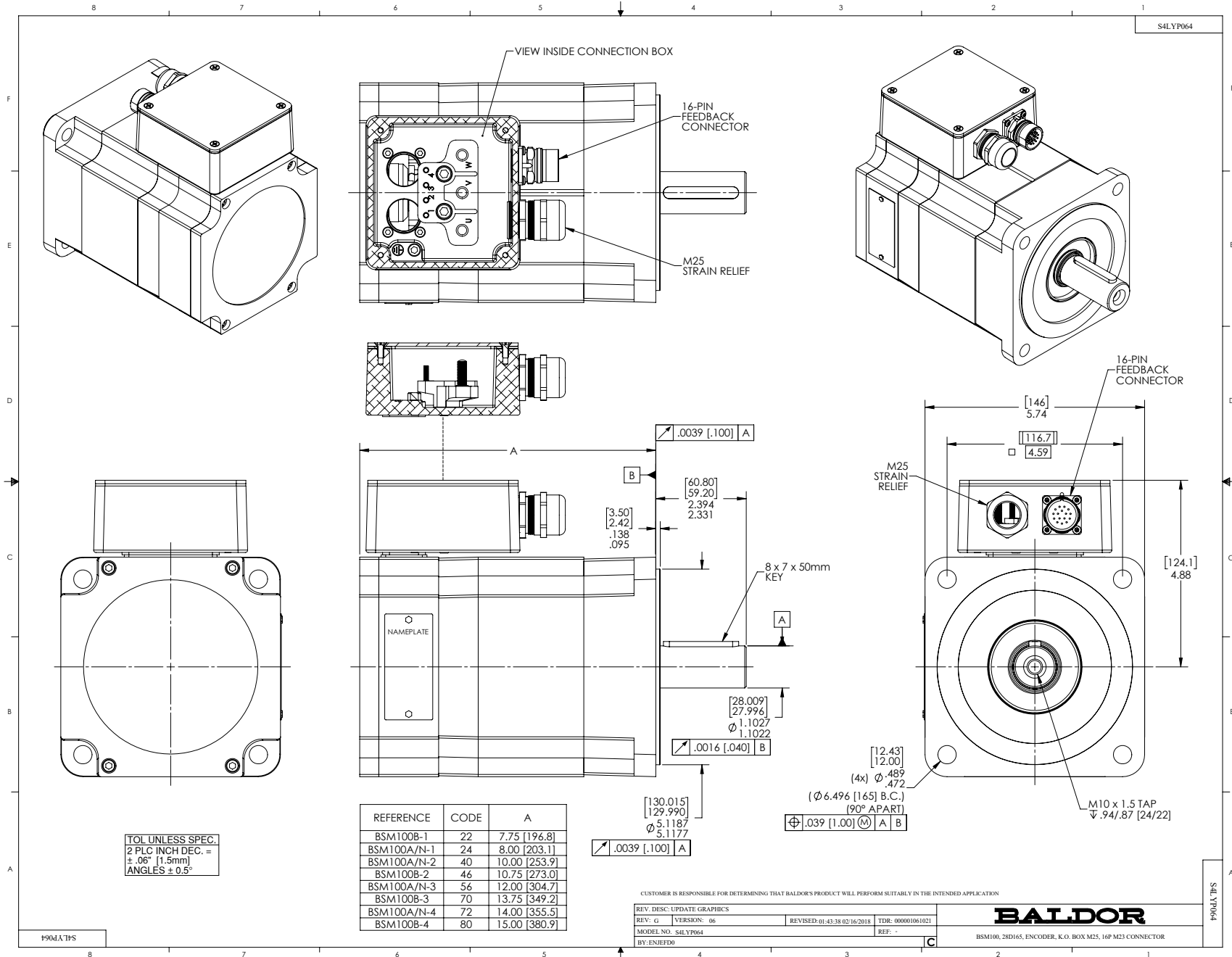
Enclosure	TENV
Nameplate Speed	1200
Agency Approvals	CE
	CSA
	TUV
	UR
Base Indicator	Bracket Mounted
Dimensional Drawing Numbers	S4LYP064
Frame	D165D
Frame Material	Exposed Laminations
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Standards	IEC
Mounting Arrangement	F1
Nameplate Output	4.04KW
Shaft Rotation	Reversible

Part Detail

Revision	AB
Type	AC
Mech. spec.	S4P064
Base	
Status	PRD/A
Elec. spec.	S4WGW062
Layout	S4LYP064
Eff. date	08-18-2025
CD Diagram	CD0006A02
Poles	08
Leads	3#10
Proprietary	False
Created date	01-01-0001

Nameplate

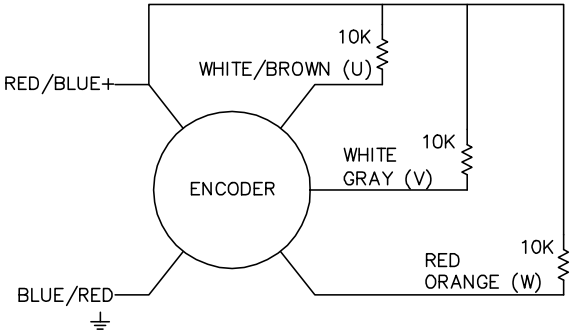
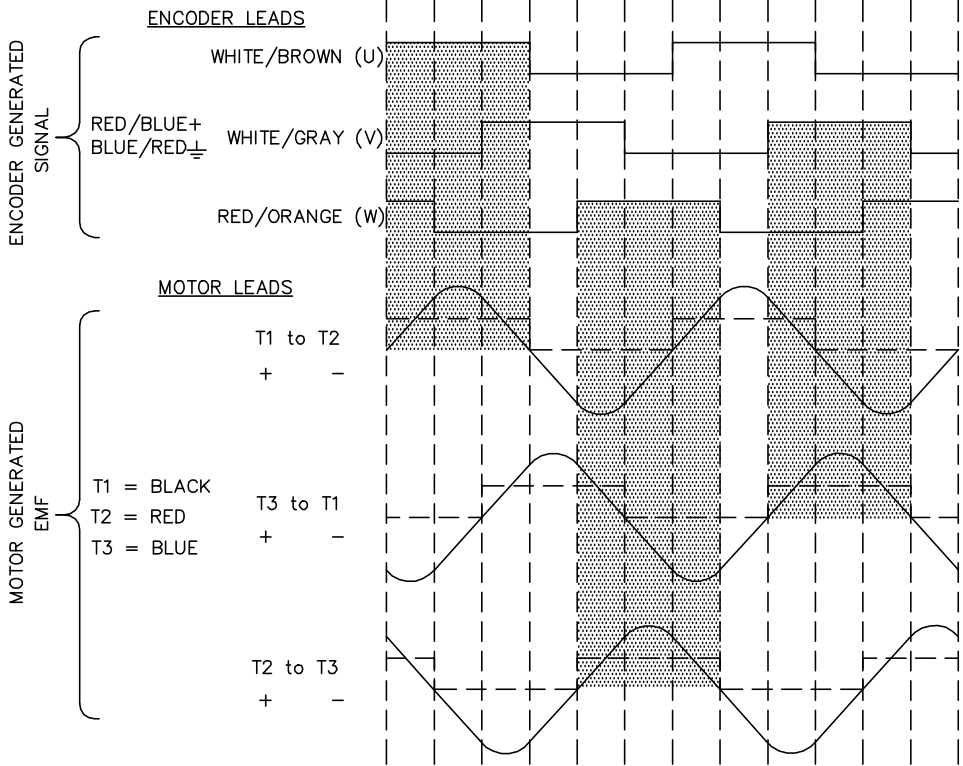
NP2863L					
CAT.NO.	BSM100N-4250AF				
SPEC.	S4P064W062G2				
MFG.NO.					
TORQ CONT STALL	40 NM				
CUR CONT STALL/A RMS	16.9				
POWER	3.77KW				
RATED SPEED/RPM(1/MIN)	1200				
RATED BUS VOLTS	320				
PEAK CUR/A RMS	67.2				
MAX SPEED/RPM(1/MIN)	4000				
IP	54	IC	410	WT.	38
CLASS	F	25C RATED			



CD1338A01

BRUSHLESS D.C. COMMUTATION

8 POLE MECHANICAL DEGREES	0	15	30	45	60	75	90	105	120	135	150	165	180
4 POLE MECHANICAL DEGREES	0	30	60	90	120	150	180	210	240	270	300	330	360
ELECTRICAL DEGREES	0	60	120	180	240	300	360	420	480	540	600	660	720



NOTE:
CCW ROTATION VIEWING
MOTOR SHAFT END

REV. DESC: NEW	REV. LTR: -	BY: FN	REVISED: 11:22:25 03/24/2004	TDR: 328266
CD1338A01	FILE: AAA00115153	REF: CD1338A01	MTL: -	

BALDOR ELECTRIC Co.

BLDC COMMUTATION KOYO ENC.(CHANNELS TO MATCH TMGW/SUMTAK)

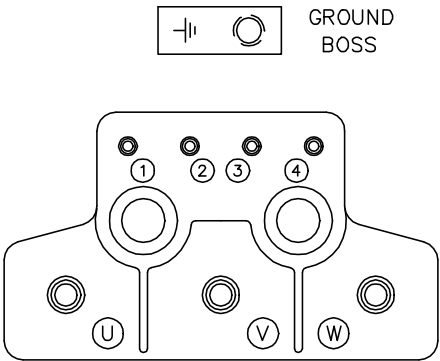
CD1338A01

MOTOR CONNECTIONS

TERMINAL LABEL	FUNCTION	INTERNAL WIRE MARKING
1	THERMAL SWITCH	YELLOW
2	THERMAL SWITCH	YELLOW
3	*BRAKE	BLACK
4	*BRAKE	BLACK
	GROUND	-----
U	PHASE U	BLACK OR T1
V	PHASE V	RED OR T2
W	PHASE W	BLUE OR T3

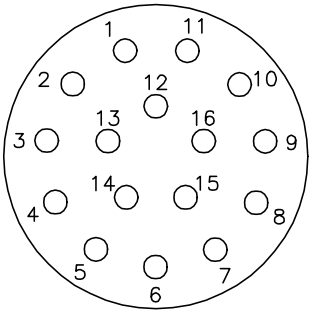
* WHEN REQUIRED

PIN	FUNCTION	WIRE COLOR
1	DC+5V	RED/BLUE
2	GROUND	BLUE/RED
3	CHANNEL A	BLUE
4	CHANNEL $\bar{A}$	ORANGE
5	CHANNEL B	GREEN
6	CHANNEL $\bar{B}$	BROWN
7	CHANNEL Z	BLACK
8	CHANNEL $\bar{Z}$	YELLOW
9	OPEN	---
10	CHANNEL U	WHITE/BROWN
11	CHANNEL $\bar{U}$	BROWN/WHITE
12	CHANNEL V	WHITE/GRAY
13	CHANNEL $\bar{V}$	GRAY/WHITE
14	CHANNEL W	RED/ORANGE
15	CHANNEL $\bar{W}$	ORANGE/RED
16	OPEN	---



GROUND
BOSS

CD1388A02



16 PIN CONNECTOR
THREADED CRIMP PIN STYLE
16- #20 CONTACT SIZE
(CRIMP SIDE)

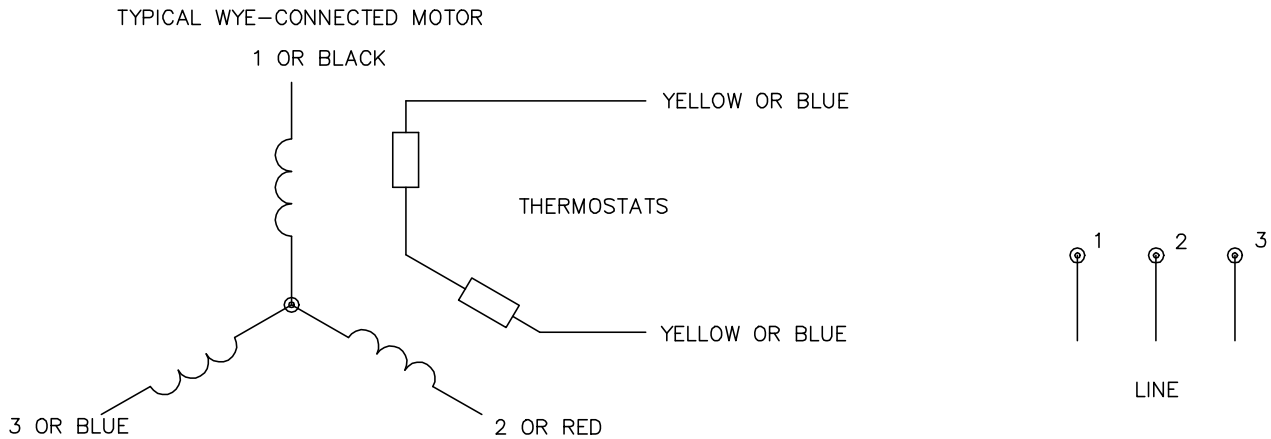
REV. DESC: NEW	REV. LTR: -	BY: FN	REVISED: 10: 20:15 03/25/2004	TDR: 328341
CD1388A02	FILE: AAA00115200	REF: CD1388A02	MTL: -	

BALDOR ELECTRIC Co.

CONN DIAG KOYO ENCODER C/T, K.O. BOX & 16 PIN CONNECTOR

CD1388A02

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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