

ABB BALDOR RELIANCE III

Customer information packet

BSM50N-233AF

BSM50N-233AF T'STAT ENCODER

Specifications

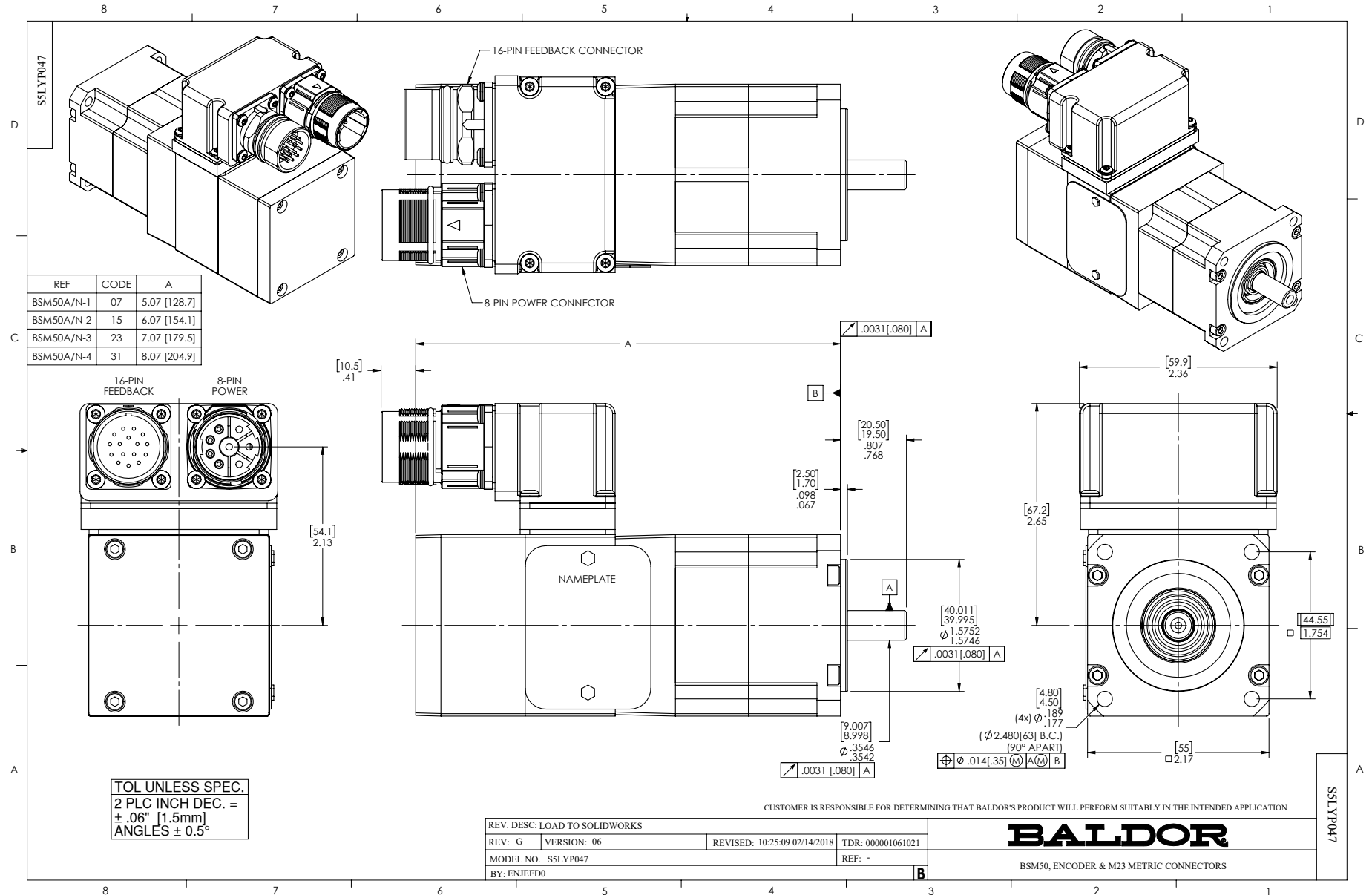
Enclosure	TENV
Nameplate Speed	4000
Agency Approvals	CE
	CSA
	TUV
	UR
	WEEE
Base Indicator	Bracket Mounted
Dimensional Drawing Numbers	S5LYP047
Frame	D63D
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Standards	IEC
Mounting Arrangement	F1
Nameplate Output	0.36KW
Shaft Rotation	Reversible

Part Detail

Revision	AB
Type	AC
Mech. spec.	S5P047
Base	
Status	PRD/A
Elec. spec.	S5WGW024
Layout	S5LYP047
Eff. date	06-11-2025
CD Diagram	CD0006A02
Poles	04
Leads	3#18
Proprietary	False
Created date	12-20-2006

Nameplate

NP2859L									
CAT.		BSM50N-233AF							
SPEC		S5P047W024G4							
MFG									
TORQ CONT STALL		0.91		NM					
CUR CONT STALL/A RMS		2.87							
POWER		0.36		KW					
RATED SPEED/RPM(1/MIN)		4000							
RATED BUS VOLTS		160							
PEAK CUR/A RMS		11.5							
MAX SPEED/RPM(1/MIN)		10000				WT.		2.3	
CLASS		F	IP	54	IC	410	25C RATED		



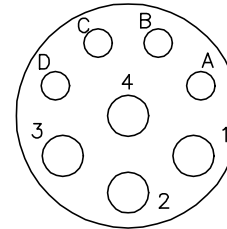
CD1297A04

MOTOR CONNECTIONS

PIN	FUNCTION	INTERNAL WIRE COLOR
A	*THERMAL SWITCH	YELLOW
B	*THERMAL SWITCH	YELLOW
C	*BRAKE	BLACK
D	*BRAKE	BLACK
1	U	BLACK
2	GROUND	GREEN OR **GREEN/YELLOW
3	W	BLUE
4	V	RED

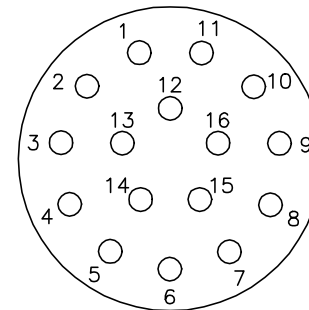
*WHEN REQUIRED

**CE MOTORS REQUIRE GREEN/YELLOW GROUND



8 PIN MOTOR CONNECTOR
THREADED CRIMP PIN STYLE

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	---



16 PIN CONNECTOR
THREADED CRIMP PIN STYLE

16- #20 CONTACT SIZE
(CRIMP SIDE)

REV. DESC: ADD CE NOTE AND GREEN/YELLOW GROUND

REV. LTR: A

VERSION: 01

TDR: 000001192301

FILE: \AAA\00115\154

REVISED: 02:31:08 06/13/2022

BY: ENDAND0

MTL: -



BALDOR - RELIANCE®

KOYO ENCODER (CHANNELS TO MATCH TMGW/SUMTAK OUTPUT)

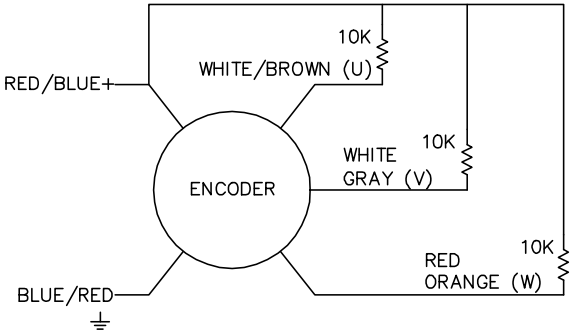
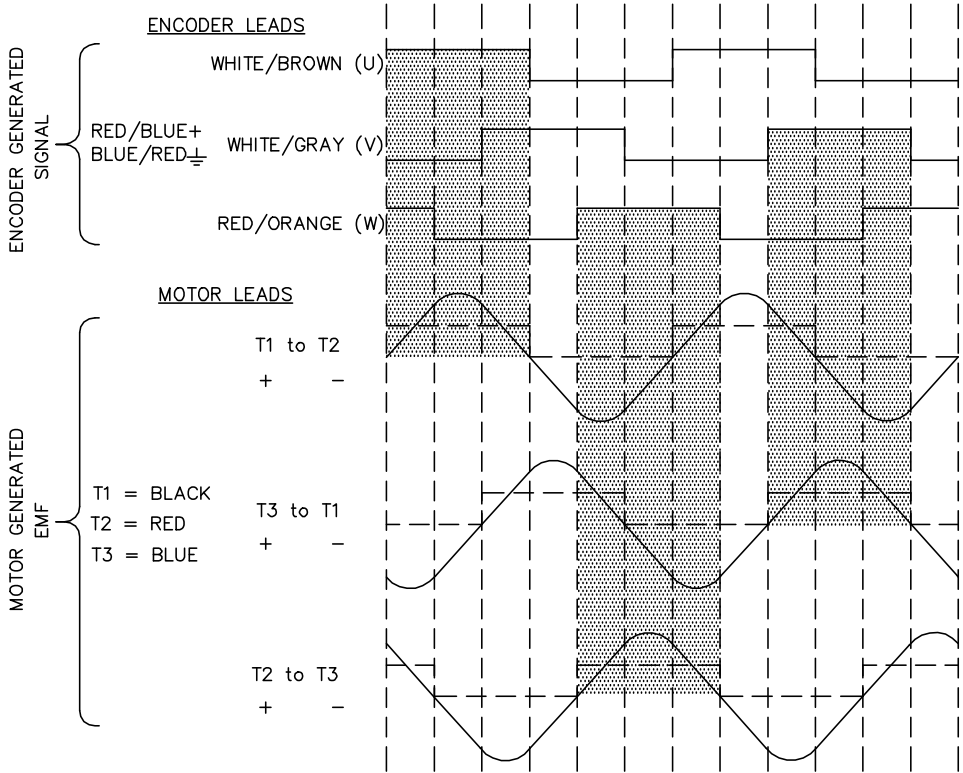
SH 1 of 1

CD1297A04

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

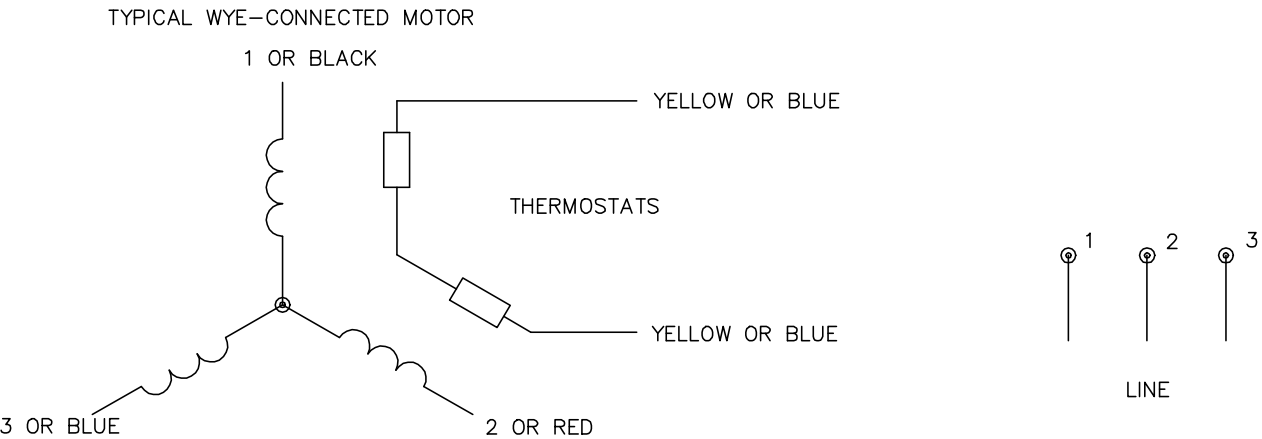
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CD1338A01	FILE: AAA00115153	REF: CD1338A01	MTL: -	

BALDOR ELECTRIC Co.

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

CD1338A01

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

CD0006A02