

ABB BALDOR RELIANCE III

Customer information packet

BSM80C-3150AF

BSM80C-3150AF T'STAT ENCODER

Specifications

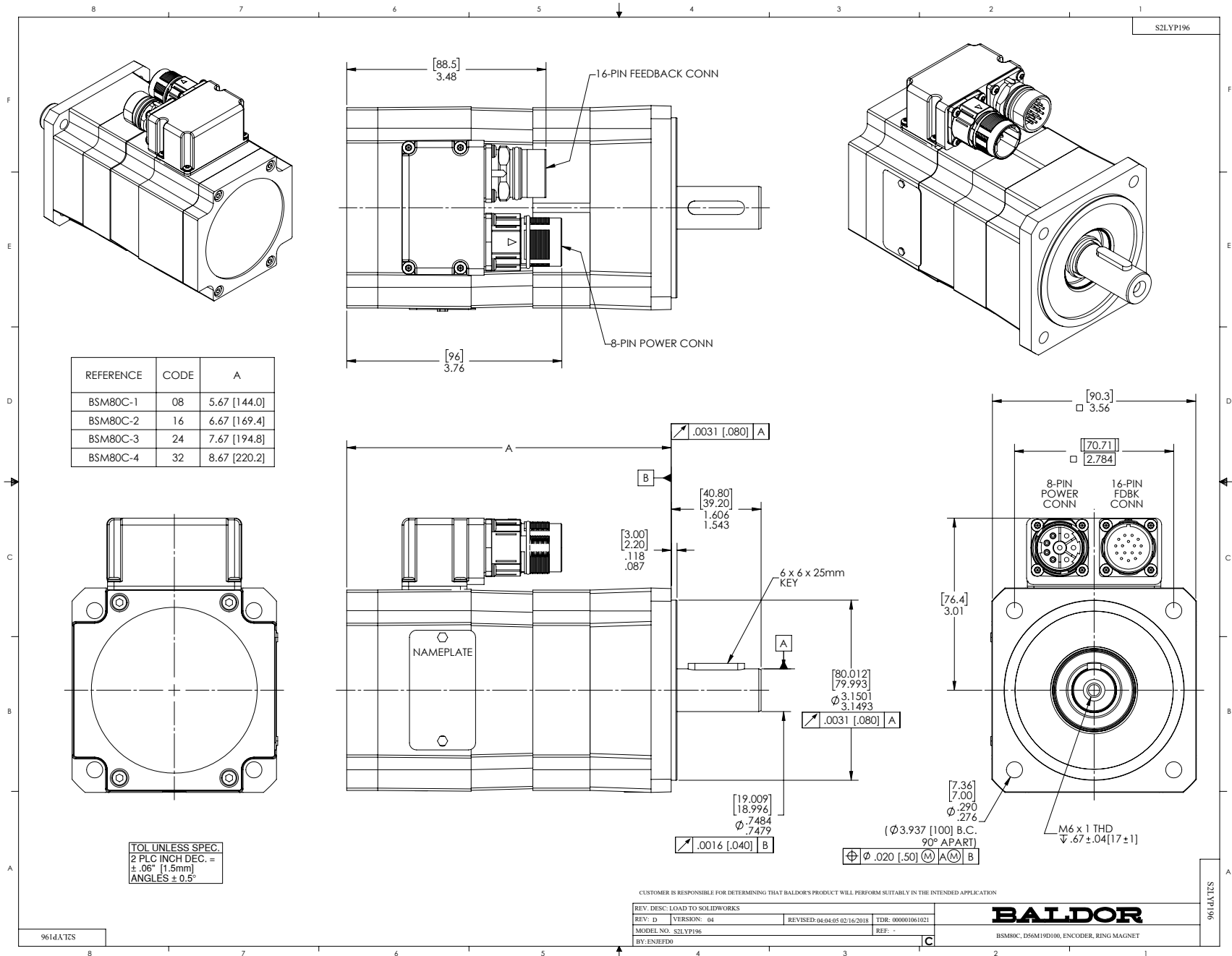
Enclosure	TENV
IP Rating	IP54
Motor Type	S224B
Nameplate Speed	4000
Agency Approvals	CE
	CSA
	TUV
	UR
	WEEE
Base Indicator	Bracket Mounted
Dimensional Drawing Numbers	S2LYP196
Frame	D100D
Frame Material	Exposed Laminations
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Standards	IEC
Mounting Arrangement	F1
Nameplate Output	0.71KW
RoHS Status	Y
Shaft Rotation	Reversible

Part Detail

Revision	AC
Type	AC
Mech. spec.	S2P196
Base	
Status	PRD/A
Elec. spec.	S2WGW063
Layout	S2LYP196
Eff. date	07-16-2025
CD Diagram	CD0006A02
Poles	04
Leads	3#18
Proprietary	False
Created date	01-01-0001

Nameplate

NP2864L									
CAT.NO.	BSM80C-3150AF								
BLANK									
SPEC.	S2P196W063								
MFG.NO.									
TORQ CONT STALL	3.6 NM								
CUR CONT STALL/A RMS	3.18								
POWER	0.71KW								
RATED SPEED/RPM(1/MIN)	4000								
RATED BUS VOLTS	600								
PEAK CUR/A RMS	9.54								
MAX SPEED/RPM(1/MIN)	7000				AMB.		25		
CLASS	F	IP	54	IC	410	MOTOR MASS		6.8	



CD1297A04

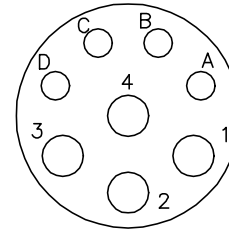
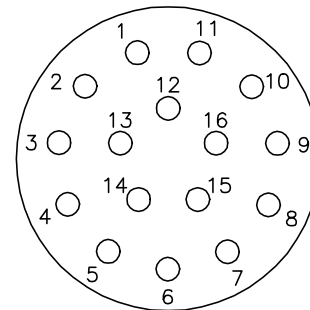
MOTOR CONNECTIONS

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

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	---


 8 PIN MOTOR CONNECTOR
THREADED CRIMP PIN STYLE

 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: ENDANDO

MTL: -


BALDOR - RELIANCE®

KOYO ENCODER (CHANNELS TO MATCH TMGW/SUMTAK OUTPUT)

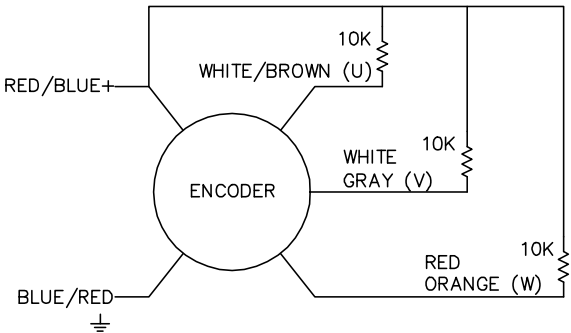
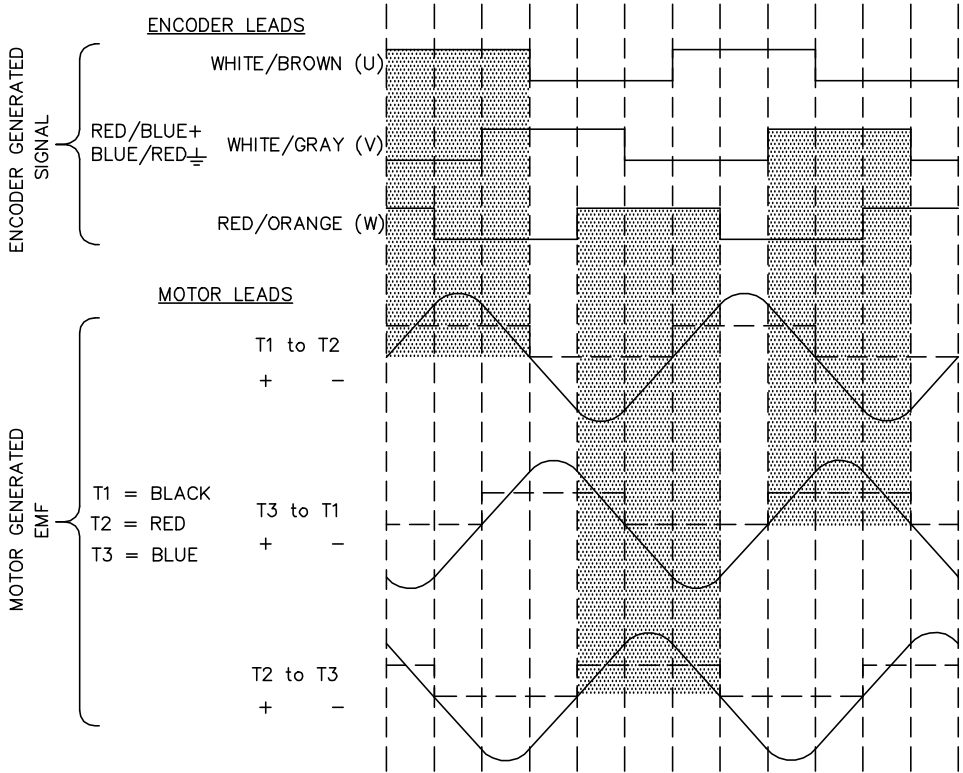
SH 1 of 1

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

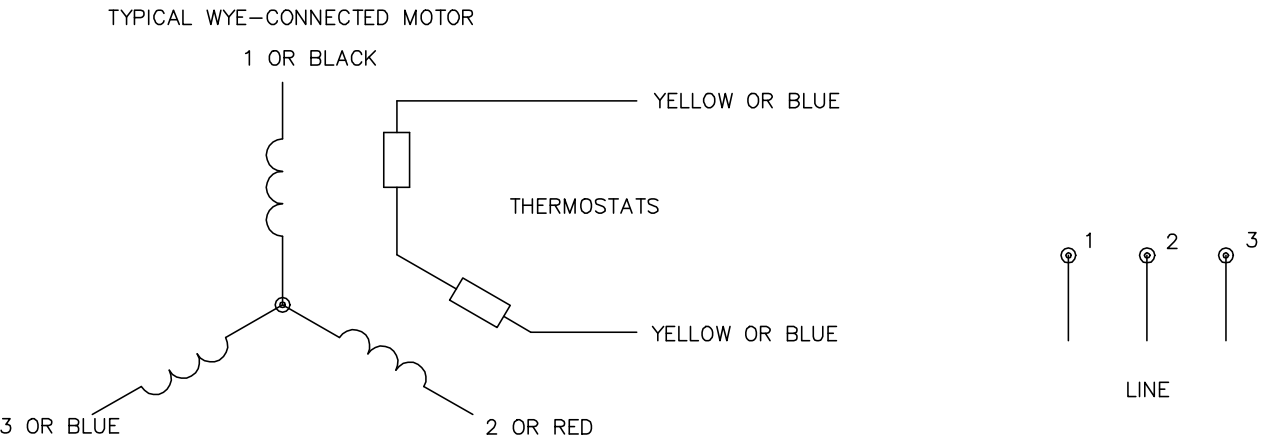
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CD1338A01	FILE: AAA00115153	REF: CD1338A01	MTL: -	

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