

ABB BALDOR RELIANCE III

Customer information packet

BSM90N-175AF

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Specifications

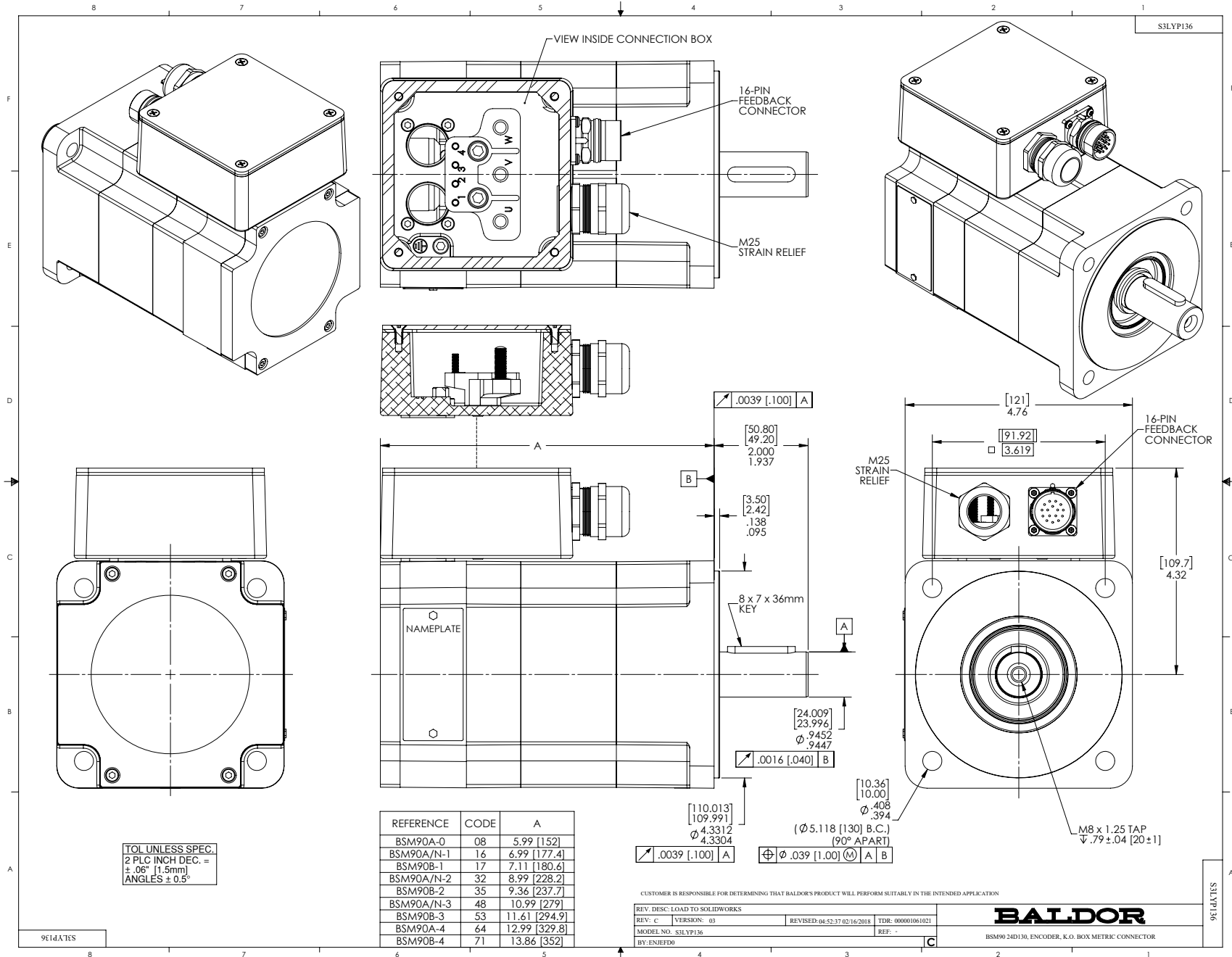
Enclosure	TENV
Nameplate Speed	4000
Agency Approvals	CE CSA TUV UR
Base Indicator	Bracket Mounted
Dimensional Drawing Numbers	S3LYP136
Frame	D130D
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Standards	IEC
Mounting Arrangement	F1
Nameplate Output	1.61KW
Shaft Rotation	Reversible

Part Detail

Revision	AL
Type	AC
Mech. spec.	S3P136
Base	
Status	PRD/A
Elec. spec.	S3WGW057
Layout	S3LYP136
Eff. date	07-29-2025
CD Diagram	CD0006A02
Poles	08
Leads	3#16
Proprietary	False
Created date	01-01-0001

Nameplate

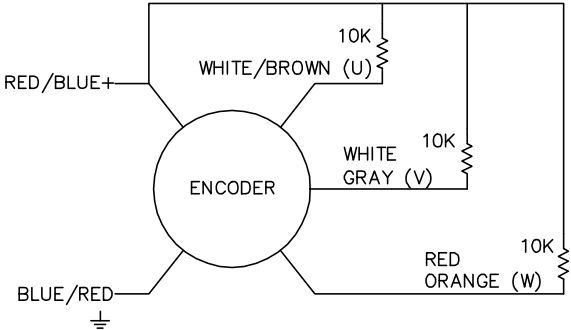
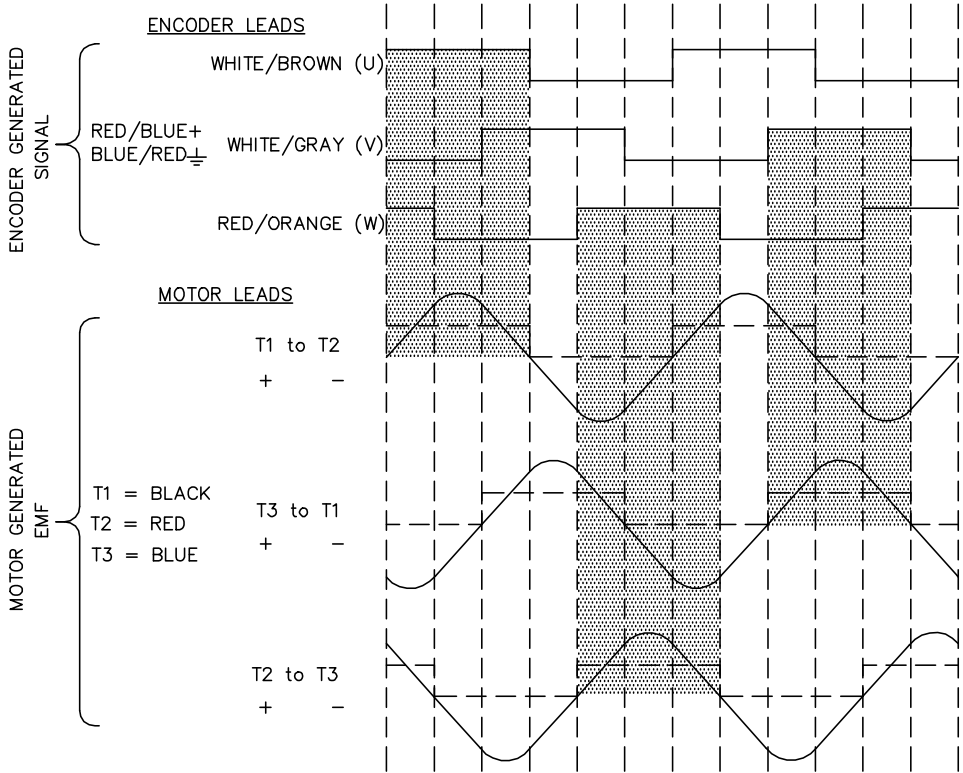
NP2863L					
CAT.NO.					
SPEC.	S3P136W057G1				
MFG.NO.					
TORQ CONT STALL	6 NM				
CUR CONT STALL/A RMS	7.81				
POWER	1.61KW				
RATED SPEED/RPM(1/MIN)	4000				
RATED BUS VOLTS	320				
PEAK CUR/A RMS	31.2				
MAX SPEED/RPM(1/MIN)	4000				
IP	54	IC	410	WT.	10.4
CLASS	F	25C RATED			



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)

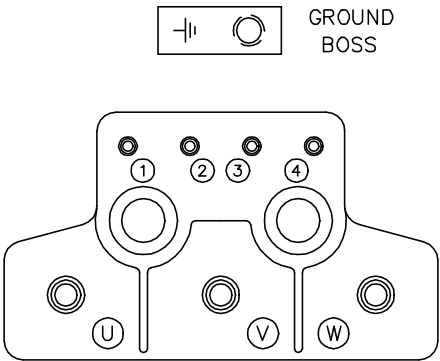
CD1338A01

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

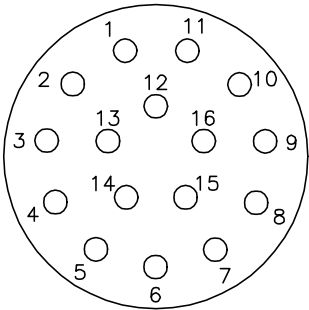
* WHEN REQUIRED

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)

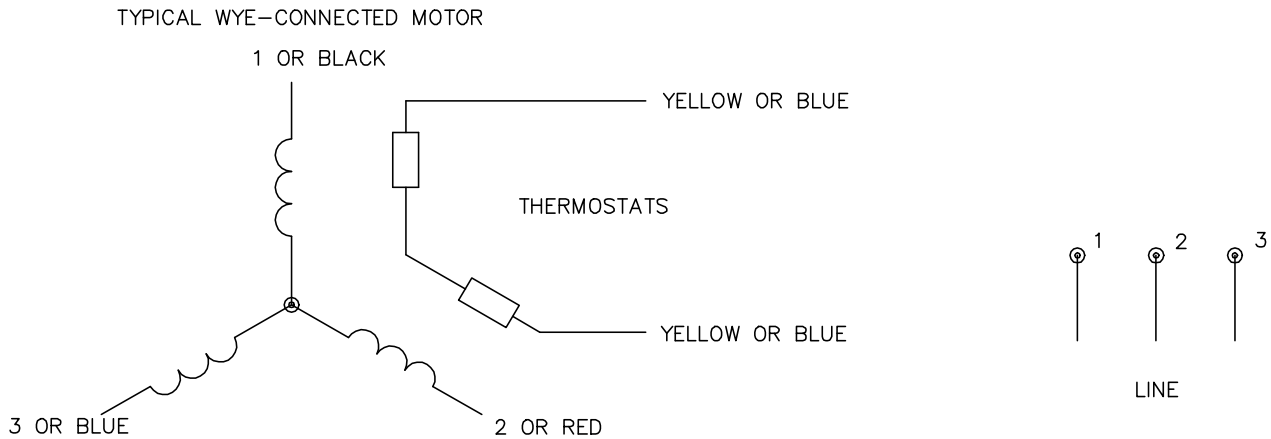
REV. DESC: NEW	REV. LTR: -	BY: FN	REVISED: 10: 20:15 03/25/2004	TDR: 328341
CD1388A02			FILE: AAA00115200	REF: CD1388A02
			MTL: -	

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: ENJFDO

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3PH, SV, 3 LEADS, WYE CONNECTED

CD0006A02