ABB BALDOR RELIANCE

Customer information packet

BSM80N-250AA

BSM80N-250AA (NEO) T'STAT, RESOLVE

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
10/6/2026 7:46:28 PM

Specifications

Enclosure	TENV
Nameplate Speed	4000
Agency Approvals	CE
	CSA
	TUV
	UR
Base Indicator	Bracket Mounted
Dimensional Drawing Numbers	S2LYP100
Frame	D100D
Frame Material	Exposed Laminations
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Standards	IEC
Mounting Arrangement	F1
Nameplate Output	1.13KW
Shaft Rotation	Reversible

Part Detail

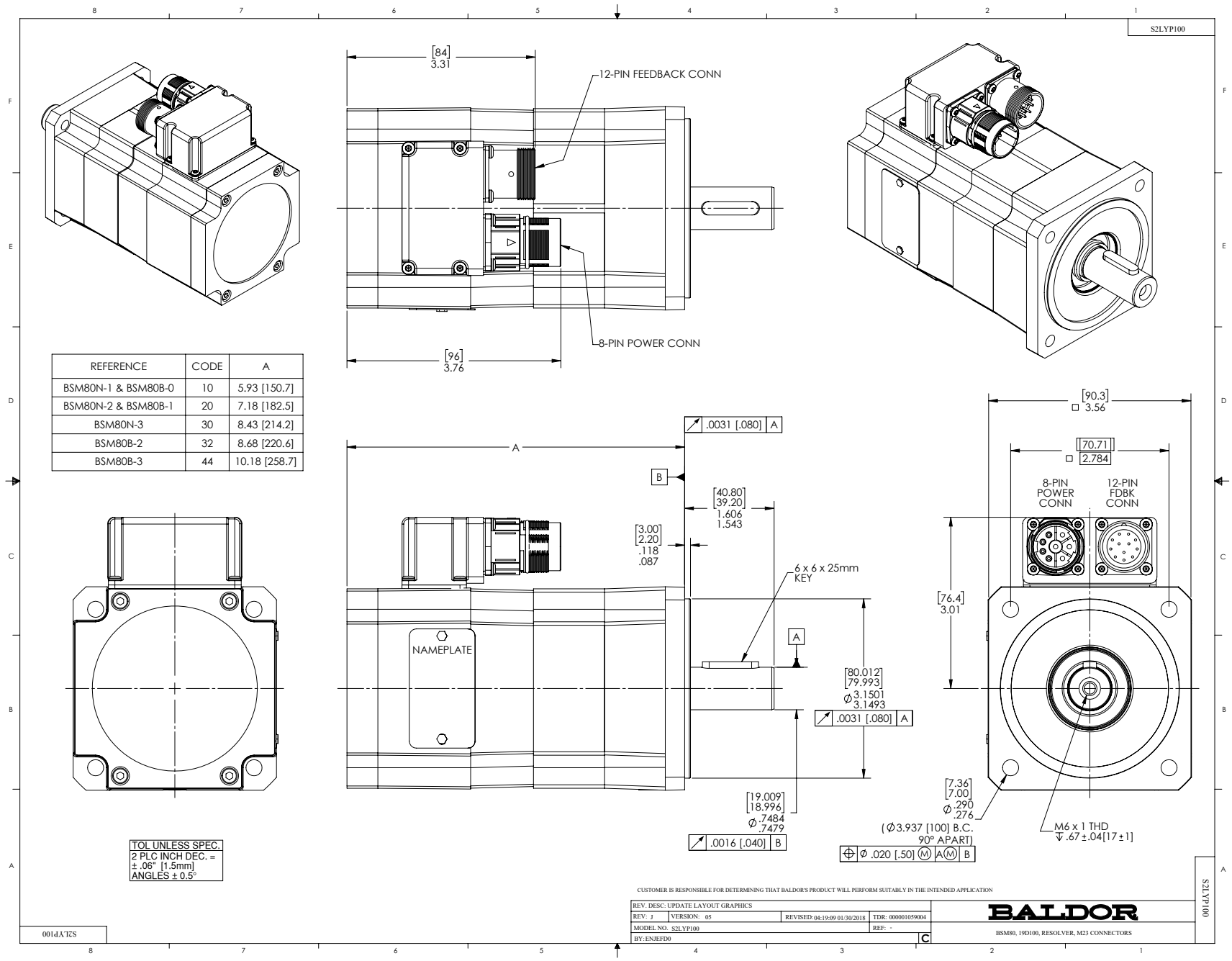
Revision	AC
Type	AC
Mech. spec.	S2P100
Base	
Status	PRD/A
Elec. spec.	S2WGW043
Layout	S2LYP100
Eff. date	07-16-2025
CD Diagram	CD0006A02
Poles	04
Leads	3#18
Proprietary	False
Created date	01-01-0001

Nameplate

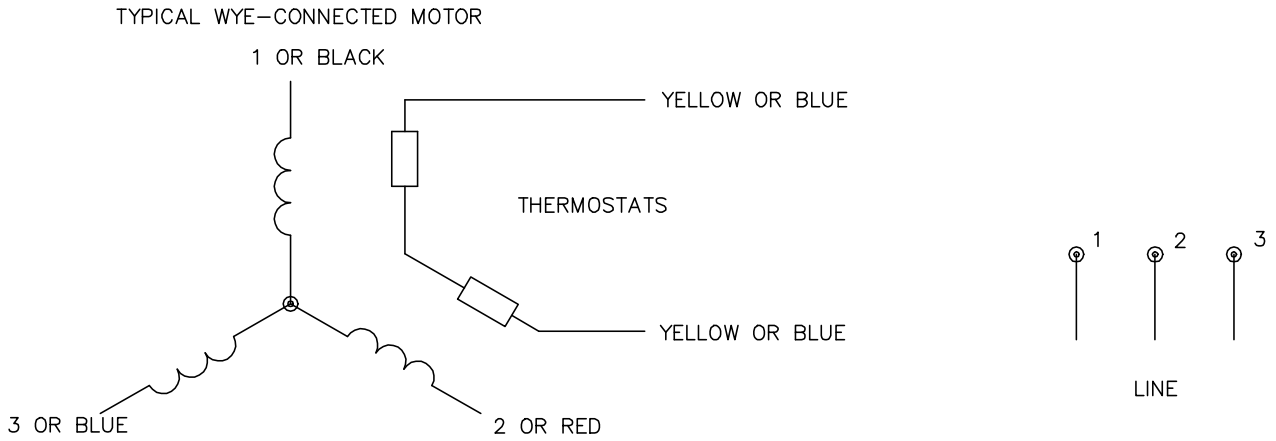
NP2864L									
CAT.NO.									
BLANK									
SPEC.	S2P100W043G1								
MFG.NO.									
TORQ CONT STALL	3.2 NM								
CUR CONT STALL/A RMS	5.61								
POWER	1.76KW								
RATED SPEED/RPM(1/MIN)	6000								
RATED BUS VOLTS	320								
PEAK CUR/A RMS	22.4								
MAX SPEED/RPM(1/MIN)	7000					**AMB.**	25		
CLASS	F	**IP**	54	**IC**	410		**MOTOR MASS**		5.4

Accessories

Part number	Description	Multiplier
GBSM80-MRP090-4	Std. Servo Gearbox Ratio 4:1	
GBSM80-MRP090-5	Std. Servo Gearbox Ratio 5:1	E4
GBSM80-MRP090-7	Std. Servo Gearbox Ratio 7:1	E4
GBSM80-MRP090-10	Std. Servo Gearbox Ratio 10:1	E4
GBSM80-MRP090-16	Std. Servo Gearbox Ratio 16:1	E4
GBSM80-MRP120-50	Std. Servo Gearbox Ratio 50:1	E4


S2LYP100
[84]
3.31
12-PIN FEEDBACK CONN
8-PIN POWER CONN
[96]
3.76
REFERENCE | CODE | A
BSM80N-1 & BSM80B-0 | 10 | 5.93 [150.7]
BSM80N-2 & BSM80B-1 | 20 | 7.18 [182.5]
BSM80N-3 | 30 | 8.43 [214.2]
BSM80B-2 | 32 | 8.68 [220.6]
BSM80B-3 | 44 | 10.18 [258.7]
.0031 [.080] A
A
B
[40.80]
[39.20]
1.606
1.543
[3.00]
[2.20]
.118
.087
6 x 6 x 25mm KEY
NAMEPLATE
[80.012]
[79.993]
Ø3.1501
3.1493
.0031 [.080] A
[19.009]
[18.996]
Ø.7484
.7479
.0016 [.040] B
[90.3]
3.56
[70.71]
2.784
8-PIN POWER CONN
12-PIN FDBK CONN
[76.4]
3.01
[7.36]
[7.00]
Ø.290
.276
(Ø3.937 [100] B.C. 90° APART)
Ø .020 [.50] M A M B
M6 x 1 THD
↧ .67 ±.04[17 ±1]
TOL UNLESS SPEC.
2 PLC INCH DEC. = ± .06" [1.5mm]
ANGLES ± 0.5°
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE LAYOUT GRAPHICS
REV: J VERSION: 05 REVISED: 04:19:09 01/30/2018 TDR: 000001059004
MODEL NO. S2LYP100 REF: -
BY: ENJEFD0
C
BALDOR
BSM80, 19D100, RESOLVER, M23 CONNECTORS
S2LYP100

CD0006A02



NOTES:

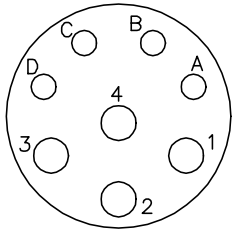
1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.

REV. DESC: REMOVED "OPTIONAL" FROM PRINT, SERVO REQ'S T'STATS			BALDOR ELECTRIC Co.
REV. LTR: D	VERSION: 03	TDR: 000000414937	
CD0006A02	FILE: \AAA\00068\606	REVISED: 10:02:28 11/21/2006	3PH, SV, 3 LEADS, WYE CONNECTED
	MTL: –	BY: ENJEFDO	

CD0006A02

CD1321

8 PIN THREADED CONNECTOR
(CRIMP STYLE)
(INSERTION SIDE)

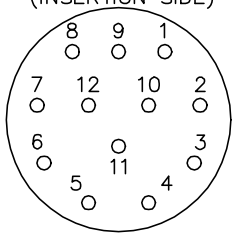


MOTOR CONNECTIONS

PIN	FUNCTION	INTERNAL/EXTERNAL MARKINGS
A	THERMAL SWITCH	YELLOW
B	THERMAL SWITCH	YELLOW
C	BRAKE (OPTIONAL)	BLACK (* RED)
D	BRAKE (OPTIONAL)	BLACK
1	U	BLACK OR T1
2	GROUND	GREEN OR **GREEN/YELLOW
3	W	BLUE OR T3
4	V	RED OR T2

* WHEN REQUIRED
**CE MOTORS REQUIRE GREEN/YELLOW GROUND

12 PIN THREADED CONNECTOR
(CRIMP STYLE)
(INSERTION SIDE)



RESOLVER CONNECTIONS

PIN	FUNCTION	INTERNAL WIRE COLOR
1	REF HI R1	RED/WHITE
2	REF LO R2	YELLOW/WHITE
3	COS+ S1	RED
4	COS− S3	BLACK
5	SINE− S4	BLUE
6	SINE+ S2	YELLOW

CD1321

REV. DESC: ADD CE NOTE AND GREEN/YELLOW GROUND		
REV. LTR: F	VERSION: 03	TDR: 000001192301
FILE: \AAA\00055\309	REVISED: 02:34:44 06/13/2022	BY: ENDANDO
MTL: –		

BALDOR - RELIANCE®

BSM WIRING DIAG, POWER & RESOLVER, 8 & 12 PIN THD CONNECT.

SH 1 of 1