Customer information packet

BSM80C-4150AA

BSM80C-4150AA T'STAT RESOLVER

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11/20/2026 6:12:16 AM

Specifications

Enclosure	TENV
Nameplate Speed	4000
Agency Approvals	CE
	CSA
	TUV
	UR
	WEEE
Base Indicator	Bracket Mounted
Dimensional Drawing Numbers	S2LYP166
Frame	D100D
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Standards	IEC
Mounting Arrangement	F1
Nameplate Output	1.73KW
Shaft Rotation	Reversible

Part Detail

Revision	AB
Type	AC
Mech. spec.	S2P166
Base	
Status	PRD/A
Elec. spec.	S2WGW071
Layout	S2LYP166
Eff. date	05-29-2026
CD Diagram	CD0006A02
Poles	04
Leads	3#18
Proprietary	False
Created date	01-01-0001

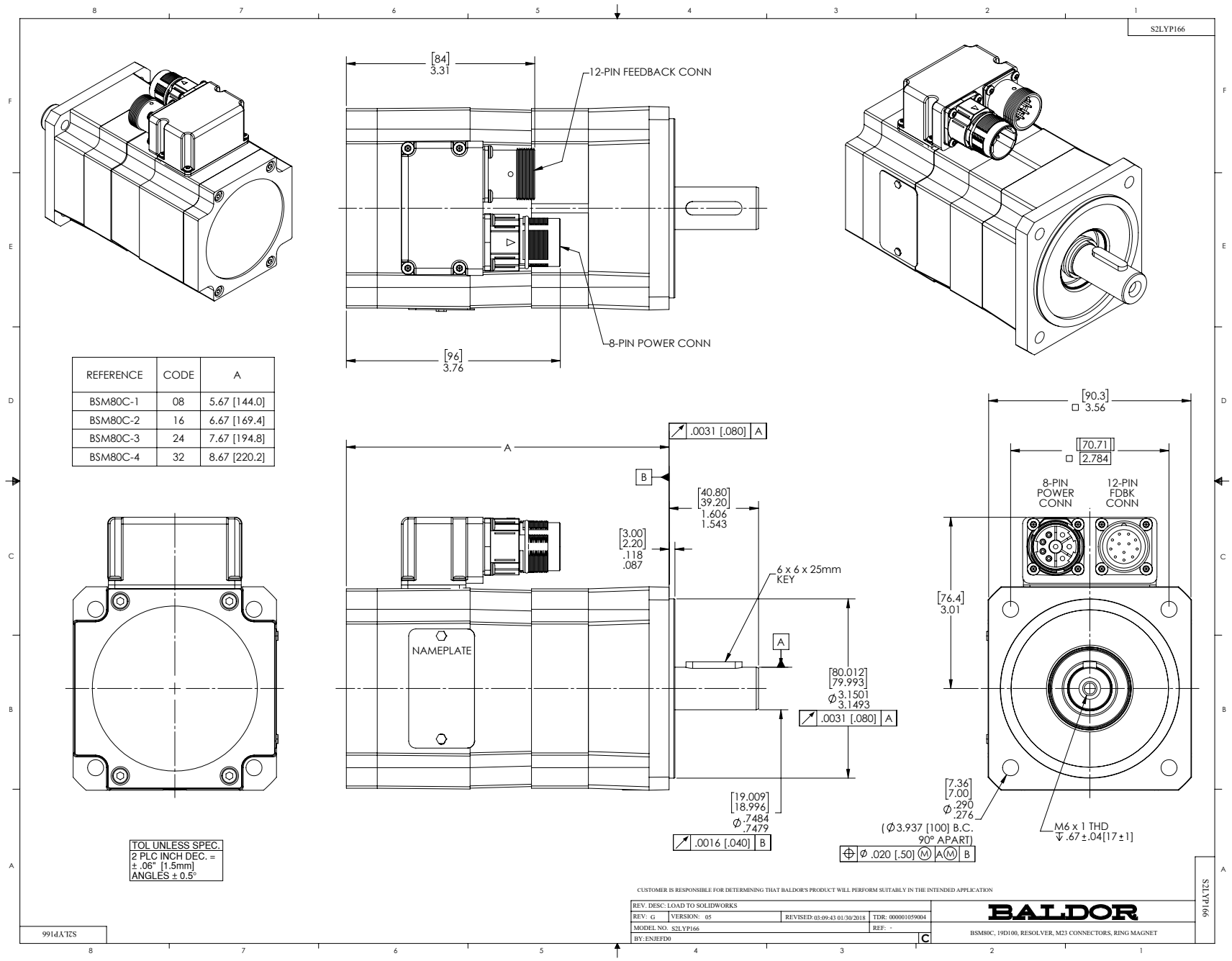
Nameplate

NP2864L								
CAT.NO.	BSM80C-4150AA							
BLANK								
SPEC.	S2P166W071							
MFG.NO.								
TORQ CONT STALL	4.3 NM							
CUR CONT STALL/A RMS	3.17							
POWER	0.9KW							
RATED SPEED/RPM(1/MIN)	2000							
RATED BUS VOLTS	320							
PEAK CUR/A RMS	9.54							
MAX SPEED/RPM(1/MIN)	7000				**AMB.**	25		
CLASS	F	**IP**	54	**IC**	410	**MOTOR MASS**	8	

Parts List

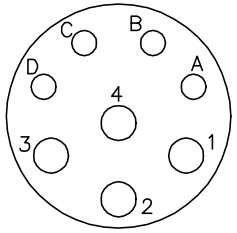
Part number	Description	Quantity
SA103018	SA S2P166W071	1.000 ea
RA094958	RA S2P166W071	1.000 ea
WD1000A33	62307-2 AMP TERM,30K/REELREPLACING A19)3	4.000 ea
HA4021A07	1/8 PTF HX SOC PIPE PLUG, FLUSH SEAL	1.000 ea
S2EP3910A01	ENDPLATE, DRIVE, WBSM80 STD MACHINING (W	1.000 ea
RM1020A10	O-RING, -041 BUNA-N, .070 CS X 2.989 ID	1.000 ea
HA7013	CLAMP, RESOLVER, PLASTIC "C-SHAPE"	1.000 ea
62YW0025A007	EPOXY LOCK SCREW,M2.5X7 TORX PAN HD TAPT	3.000 ea
84YN0040J016	M4 X 16MM SHC SCREW	4.000 ea
HW5002A93	RET RING #NT002-145 BEVELED	1.000 ea
HW2512E109	KEY, 6 X 6 X 25MM ROUND ENDED	1.000 ea
HW5109A04	WASHER, SPLIT WAVE SPRING, FOR 32MM BORE	2.000 ea
HA2113A03	TOLERANCE RING 8MM X 7MM TYPE BN8X7C	1.000 ea
S2EP3907A03	ENDPLATE, FR BRG, RESOLVER, BSM80	1.000 ea
84YN0040J020	M4 X 20MM SHC SCREW	4.000 ea
HW1021A04	WASHER, M4 SPLIT LOCK	4.000 ea
RM1020A10	O-RING, -041 BUNA-N, .070 CS X 2.989 ID	1.000 ea
MH4006A21	HEAT SHRINK TUBING 0.12 ID BLACK	0.542 ft
62YW0025A007	EPOXY LOCK SCREW,M2.5X7 TORX PAN HD TAPT	1.000 ea
S1GS1000	GASKET, 90 DEG ADAPTOR F/BSM MTRS	1.000 ea
S1CB3000A02	90 DEG ADAPTOR, METRIC CONNECTORS F/BSM	1.000 ea
GS1000A25	GASKET, METRIC CONNECTOR(CLOTH INSERTED	1.000 ea
99XM0356A02	STICK SCREW, #3-56 X .125 LG. HEX (MARK	2.000 ea
MG2000A17	RUST INHIBITOR PART # SRPO #20	0.001 ga
BG6904C03	6904/61904 D.SH,C3,POLYREX EM	1.000 ea
BG6002C03	6002 D.SH,C3,POLYREX EM	1.000 ea
RF0001	RESOLVER, BRUSHLESS, 1 SPEED, 1.4165 DIA	1.000 ea
LD2200A08	CUT LEAD GREEN&YELLOW #18 8 INCH W/ RIN	1.000 ea
S2CB3502A08	COVER, FEEDBACK, OMIT LOGO, COOL GRAY	1.000 ea
WD1455A01	CONNECTOR, FEEDBACK, M23 THDS, 12 PIN	1.000 ea
WD1649A10	1MM PIN CONTACT, TYCO#66507-4 (24-28AWG)	6.000 ea

WD5009A15	KIT-M23 MOTOR POWER CONN, 8-PIN	1.000 ea
62YW0025A007	EPOXY LOCK SCREW,M2.5X7 TORX PAN HD TAPT	12.000 ea
MG1025L02-1	WILKOFAST, 776.06 TEXTURE (BSM) BLACK	0.002 ga
MG1025Z09	CATALYST #060.06 WILCO	0.002 qt
MG1500Y08	PRIMER-WILKOPON (603.08A)YELLOW PRIMER W	0.002 qt
MG1025Z08	WILKO 603.08B PRIMER REDUCER TDR# 72361	0.002 qt
HA3173A01	THRU-BOLT FILISTER HEAD 6-32 X 5.250	4.000 ea
NP2864L	NAMEPLATE BSM80 ALUM, LASER ETCHED	1.000 ea
25PA1008	PKG GRP, BSM 50, 63, & 80	1.000 ea
MS1240	BSM Motor Quick Start 1/16	1.000 ea
LB1534	MYLAR CE WARNING LABEL FOR SERVO MOTORS	1.000 ea
LB1417	LABEL CARTON 6X4 PERFORATED BLANK ROLLS	1.000 ea


S2LYP166
[84]
3.31
12-PIN FEEDBACK CONN
8-PIN POWER CONN
[96]
3.76
REFERENCE | CODE | A
BSM80C-1 | 08 | 5.67 [144.0]
BSM80C-2 | 16 | 6.67 [169.4]
BSM80C-3 | 24 | 7.67 [194.8]
BSM80C-4 | 32 | 8.67 [220.2]
.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: LOAD TO SOLIDWORKS
REV: G | VERSION: 05 | REVISED: 03:09:43 01/30/2018 | TDR: 000001059004
MODEL NO. S2LYP166 | REF: -
BY: ENJEFD0
C
BALDOR
BSM80C, 19D100, RESOLVER, M23 CONNECTORS, RING MAGNET
S2LYP166

CD1321

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

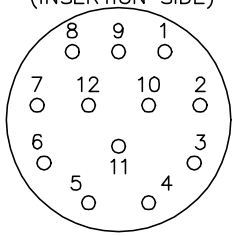


MOTOR CONNECTIONS

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

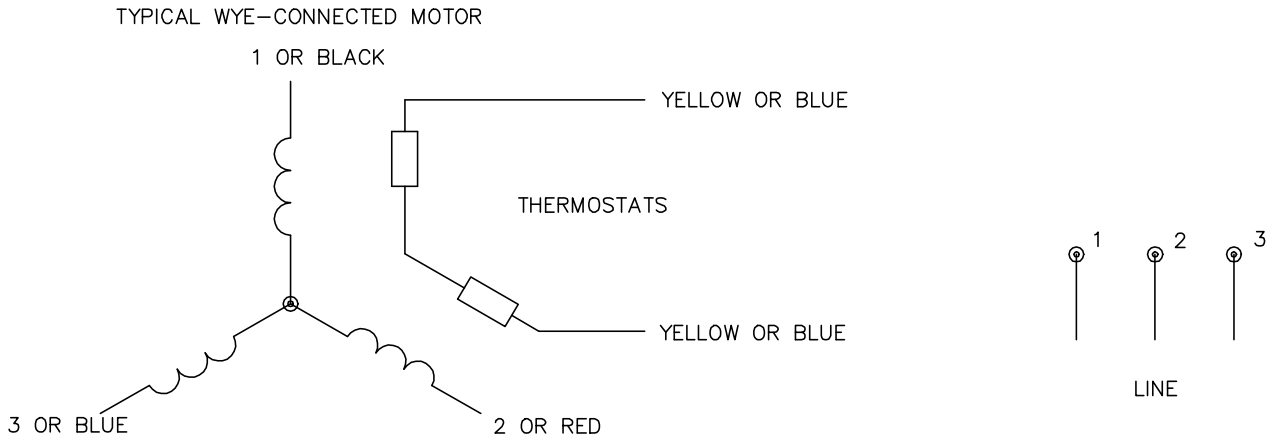
CD1321

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

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