ABB BALDOR RELIANCE

Customer information packet

BSM80C-475AA

BSM80C-475AA T'STAT, RESOLV

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11/23/2026 8:15:35 AM

Specifications

Enclosure	TENV
Nameplate Speed	4000
Agency Approvals	CE
	CSA
	TUV
	UR
Base Indicator	Bracket Mounted
Dimensional Drawing Numbers	S2LYP166
Frame	D100D
Frame Material	Exposed Laminations
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Standards	IEC
Mounting Arrangement	F1
Nameplate Output	2.2KW
Shaft Rotation	Reversible

Part Detail

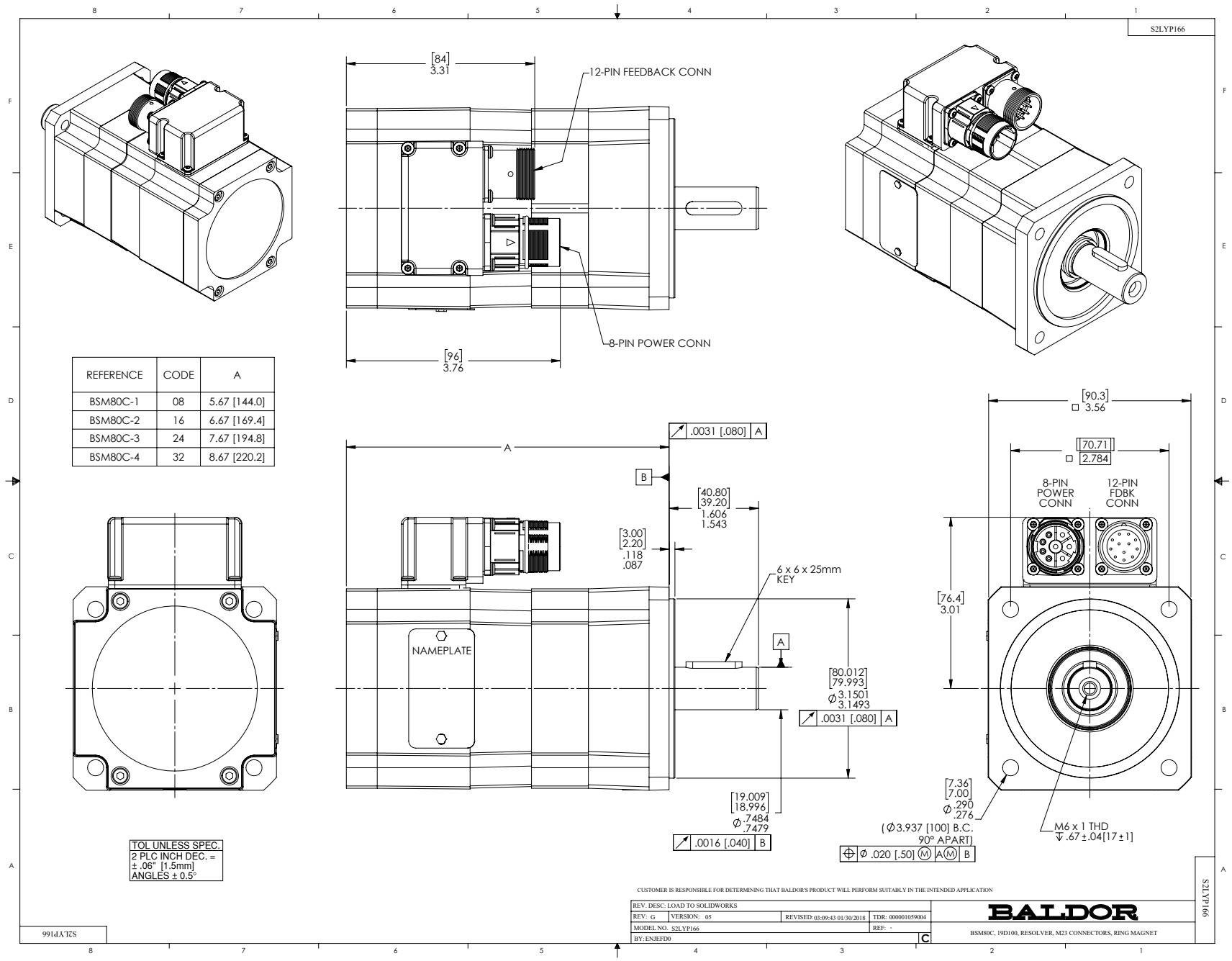
Revision	AD
Type	AC
Mech. spec.	S2P166
Base	
Status	PRD/A
Elec. spec.	S2WGW049
Layout	S2LYP166
Eff. date	05-29-2026
CD Diagram	CD0006A02
Poles	04
Leads	3#16
Proprietary	False
Created date	01-01-0001

Nameplate

NP2864L									
CAT.NO.									
BLANK									
SPEC.	S2P166W049								
MFG.NO.									
TORQ CONT STALL	4.3 NM								
CUR CONT STALL/A RMS	6.29								
POWER	1.41KW								
RATED SPEED/RPM(1/MIN)	4000								
RATED BUS VOLTS	320								
PEAK CUR/A RMS	18.9								
MAX SPEED/RPM(1/MIN)	7000					**AMB.**	25		
CLASS	F	**IP**	54	**IC**	410		**MOTOR MASS**	8	

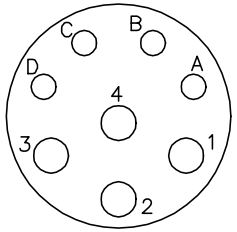
Accessories

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


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]
A
B
.0031 [.080] A
[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)

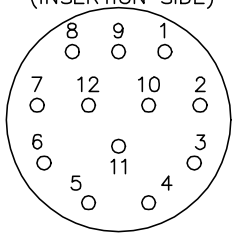


MOTOR CONNECTIONS

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

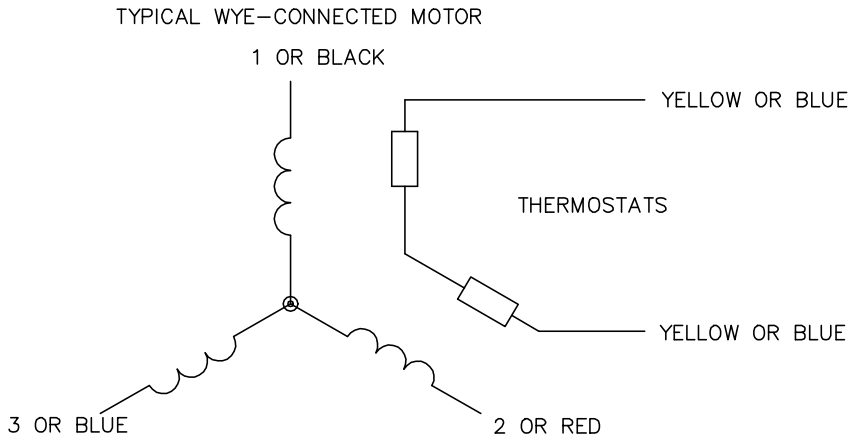
REV. DESC: ADD CE NOTE AND GREEN/YELLOW GROUND		
REV. LTR: F	VERSION: 03	TDR: 000001192301
FILE: \AAA\00055\309	REVISED: 02:34:44 06/13/2022	BY: ENDANDO
MTL: –		

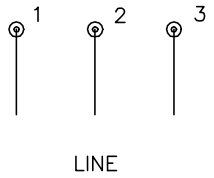
BALDOR - RELIANCE®

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