



Customer information packet

S3P102W060

BSM90N-275BAM T'STAT BRAKE RESOLVER NKEY

Specifications

Enclosure	TENV
Frame	D130D
Max Speed	7000 rpm
Peak Torque	40.0 Nm
Rated Torque	10.00 Nm
Shaft Diameter	0.945 IN
Speed	4000 rpm
Agency Approvals	CE
	CSA
	TUV
	UR
Ambient Temperature	25 °C
Base Indicator	Bracket Mounted
Bearing Grease Type	Polyrex EM
Connection Diagram	CD0006A02
Dimensional Drawing Numbers	S3LYP102
Duty Rating	CONT
Frame Suffix	D
Insulation Class	F
Motor Lead Exit	Front End
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Mounting Arrangement	F1
Nameplate Amps	11.6
Nameplate Output	2.59KW
Nameplate Speed	4000
Nameplate Voltage	300
Number of Poles	8
Peak Current	41.9 a
RoHS Status	ROHS COMPLIANT

Part detail

Revision	H
Type	AC
Mech. spec.	S3P102
Base	
Status	NLA/A
Elec. spec.	S3WGW060
Layout	S3LYP102
Eff. date	09-23-2015
CD Diagram	CD0006A02
Poles	08
Leads	3#14
Proprietary	False
Created date	10-14-2010

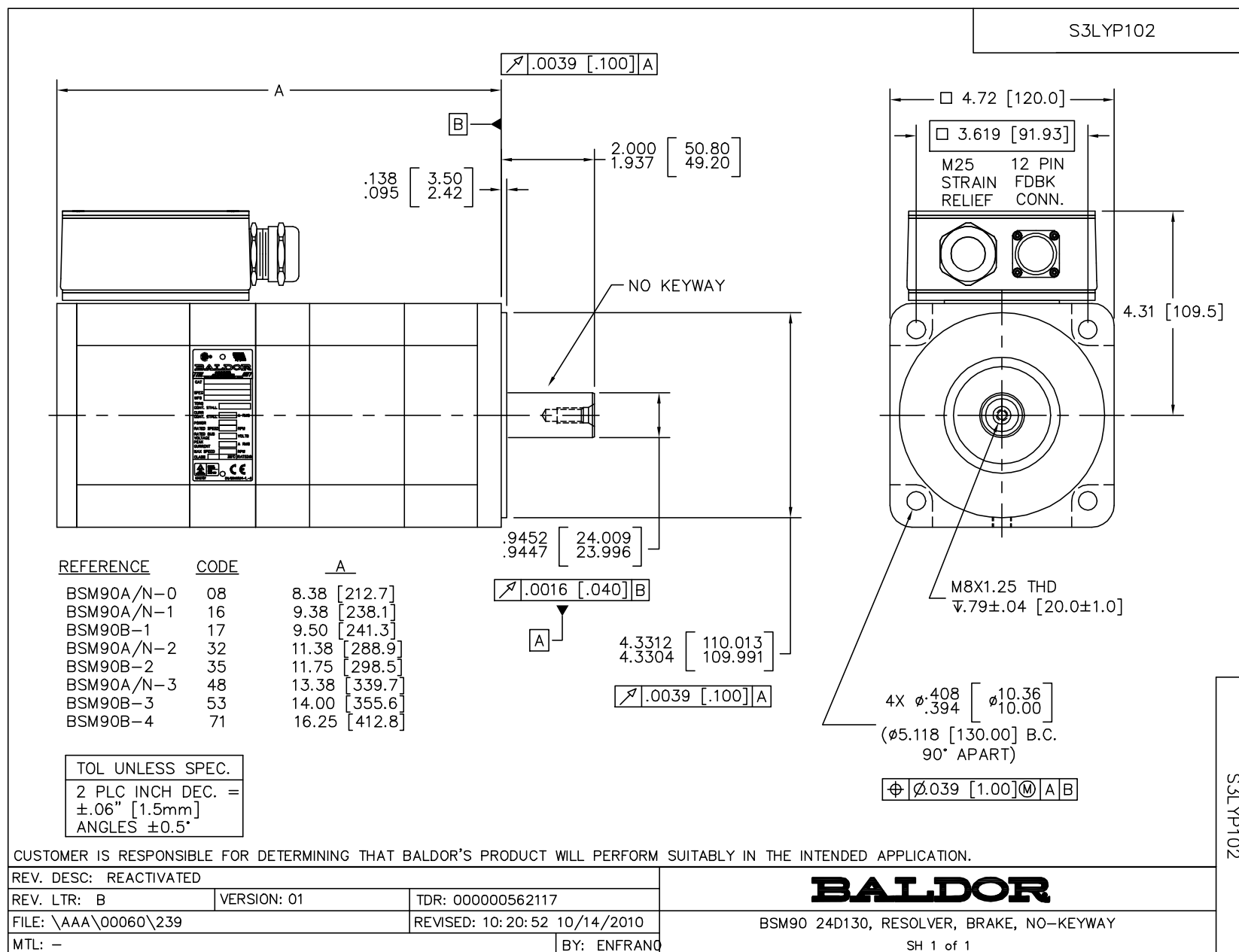
Nameplate

NP2944			
CAT.	BSM90N-275BAM		
BLANK			
SPEC.	S3P102W060		
MFG			
TORQ STALL/CONT	10 NM		
CUR CONT STALL/A RMS	11.6		
POWER	2.59KW		
RATED SPEED/RPM	4000		
RATED BUS VOLTS	300		
PEAK CUR/A RMS	41.9		
MAX SPEED/RPM	7000		
CLASS	F	C AMB	25
APRV-CE			

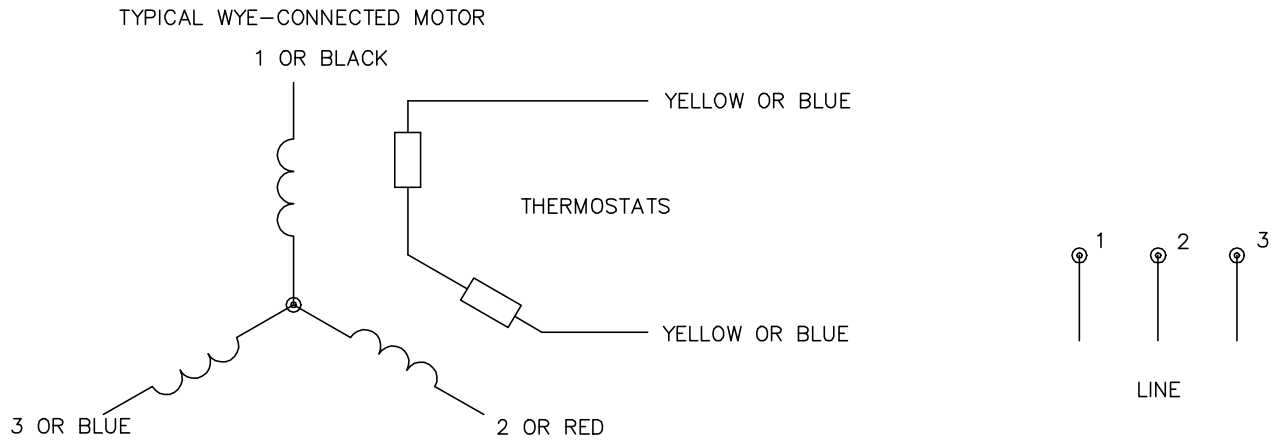
Parts list

Part number	Description	Quantity
SA204482	SA S3P102W060	1.000 ea
RA191728	RA S3P102W060	1.000 ea
WD1000D140	TRM,T&B #B71,RING,18-14,.25,NON-INSL	3.000 ea
RM1020A03	O-RING, -.045 BUNA-N, .070 CS X 3.989 ID	1.000 ea
HW5002A94	RET RING 52MM INTERNAL BEVELED F/205 BRG	1.000 ea
BG6205E03	6205 D.SL,C3,POLYREX EM	1.000 ea
HW5100A43	WASHER WAVE (W1543-020) ZINC PLATED 40MM	2.000 ea
HA2113A03	TOLERANCE RING 8MM X 7MM TYPE BN8X7C	1.000 ea
S3EP3504C01	BSM90 FR EP NO CONN. MTG	1.000 ea
84YN0040J020	M4 X 20MM SHC SCREW	4.000 ea
S4CB5001A42	TERM BOX ASSY BSM90-100 M25 TAP, 12P M23	1.000 ea
HW1021A04	WASHER, M4 SPLIT LOCK	4.000 ea
RM1020A03	O-RING, -.045 BUNA-N, .070 CS X 3.989 ID	1.000 ea
00BK0046A01	BRAKE, BSM90 3.350 OD 140 LB 24 VDC	1.000 ea
84YN0050J035	M5 X 0.8 X 035MM LG SHCS	4.000 ea
HW1021A05	LOCKWASHER 5 MM	4.000 ea
HW2501D04	KEY, 3/16 SQ X 0.625	1.000 ea
HW5010A31	SNAP RING, EXT. FOR 5/8 DIA 5100-62	1.000 ea
S3EP3504D10	ENDPLATE, FR, BRAKE, RESOLVER, KO BOX	1.000 ea
84YN0040J050	4MM X 50MM SHCS	4.000 ea
HW1021A04	WASHER, M4 SPLIT LOCK	4.000 ea
RM1020A03	O-RING, -.045 BUNA-N, .070 CS X 3.989 ID	1.000 ea
RF0001	RESOLVER, BRUSHLESS, 1 SPEED, 1.4165 DIA	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
MH4006A21	HEAT SHRINK TUBING 0.12 ID BLACK	0.708 ft
S3CB3002E01	BSM90 BLDC FEEDBACK COVER	1.000 ea
84YN0040J020	M4 X 20MM SHC SCREW	4.000 ea
WD1000D84	TERMINAL, NON-INS RING, 22-18 GA, BULK P	4.000 ea
LB7019	AC BRUSHLESS SERVOMOTOR CONNECTION DIAGR	1.000 ea
99XM0356A02	STICK SCREW, #3-56 X .125 LG. HEX (MARK	2.000 ea

MJ5004A02	P-2 FRANKLIN RESIN KIT	0.001 ga
MJ5004A03	S-C FRANKLIN ACTIVATOR	0.001 qt
MJ5004A27	RP 4005 RESIN, FOR ROTOR FIBERGLASS WIND	0.001 ea
MJ5004A28	REN 1500H HARDENER, FOR ROTOR FIBERGLASS	0.003 ga
ME3001A02	449S2 FIBERGLASS 20 END ROVING AA-750	0.015 lb
MG2000A17	RUST INHIBITOR PART # SRPO #20	0.001 ga
MG1025L02	WILKOFAS, 776.06 TEXTURE (BSM) BLACK	0.003 qt
MG1025Z09	CATALYST #060.06 WILCO	0.003 qt
MG1500Y08	PRIMER-WILKOPON (603.08A)YELLOW PRIMER W	0.003 qt
MG1025Z08	WILKO 603.08B PRIMER REDUCER TDR# 72361	0.003 qt
NP2944	BSM90/100 NAMEPLATE 2.470 MTG,"CE","UL"	1.000 ea
27PA1001	PKG GRP, PRINT PK1027A06	1.000 ea
PK3083T	STYROFOAM PACKING CRADLE W/TAPE	1.000 ea
MS1240	BSM Motor Quick Start 1/16	1.000 ea
LB1534	MYLAR CE WARNING LABEL FOR SERVO MOTORS	1.000 ea



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.

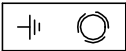
3PH, SV, 3 LEADS, WYE CONNECTED

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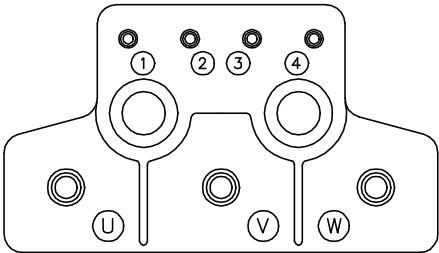
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MOTOR CONNECTIONS

TERMINAL LABEL	FUNCTION	INTERNAL WIRE MARKING
1	THERMAL SWITCH	YELLOW
2	THERMAL SWITCH	YELLOW
3	BRAKE (OPTIONAL)	BLACK
4	BRAKE (OPTIONAL)	BLACK
⏏	GROUND	-----
U	PHASE U	T1
V	PHASE V	T2
W	PHASE W	T3



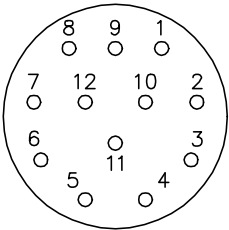
GROUND
BOSS



RESOLVER CONNECTIONS

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

12 PIN THREADED CONNECTOR
(INSERTION SIDE)



NOTE:

IF NO FEEDBACK, OMIT RESOLVER CONNECTIONS.

REV. DESC: ADDED OPTIONAL BLACK/WHITE COLOR TO REF-LO-R2

REV. LTR: B

VERSION: 01

TDR: 000001151947

FILE: \AAA\00065\150

REVISED: 01:18:21 10/27/2020

BY: ENJFDO

MTL: -



BALDOR - RELIANCE®

CONN. DIAG.-BSM,RESOLVER,BRAKE,TERMINAL BLOCK,12 PIN CONN

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