

# BALDOR® • RELIANCE

## Product Information Packet

# BSM90C-375AA

## BSM90C-375AA T'STAT, RESOLVER

Specs			
Enclosure:	TENV		
Motor Type:	S336B		
Nameplate Speed:	4000		
Agency Approvals:	CE		
	CSA		
	TUV		
	UR		
	WEEE		
Base Indicator:	Bracket Mounted		
Dimensional Drawing Numbers:	S3LYP155		

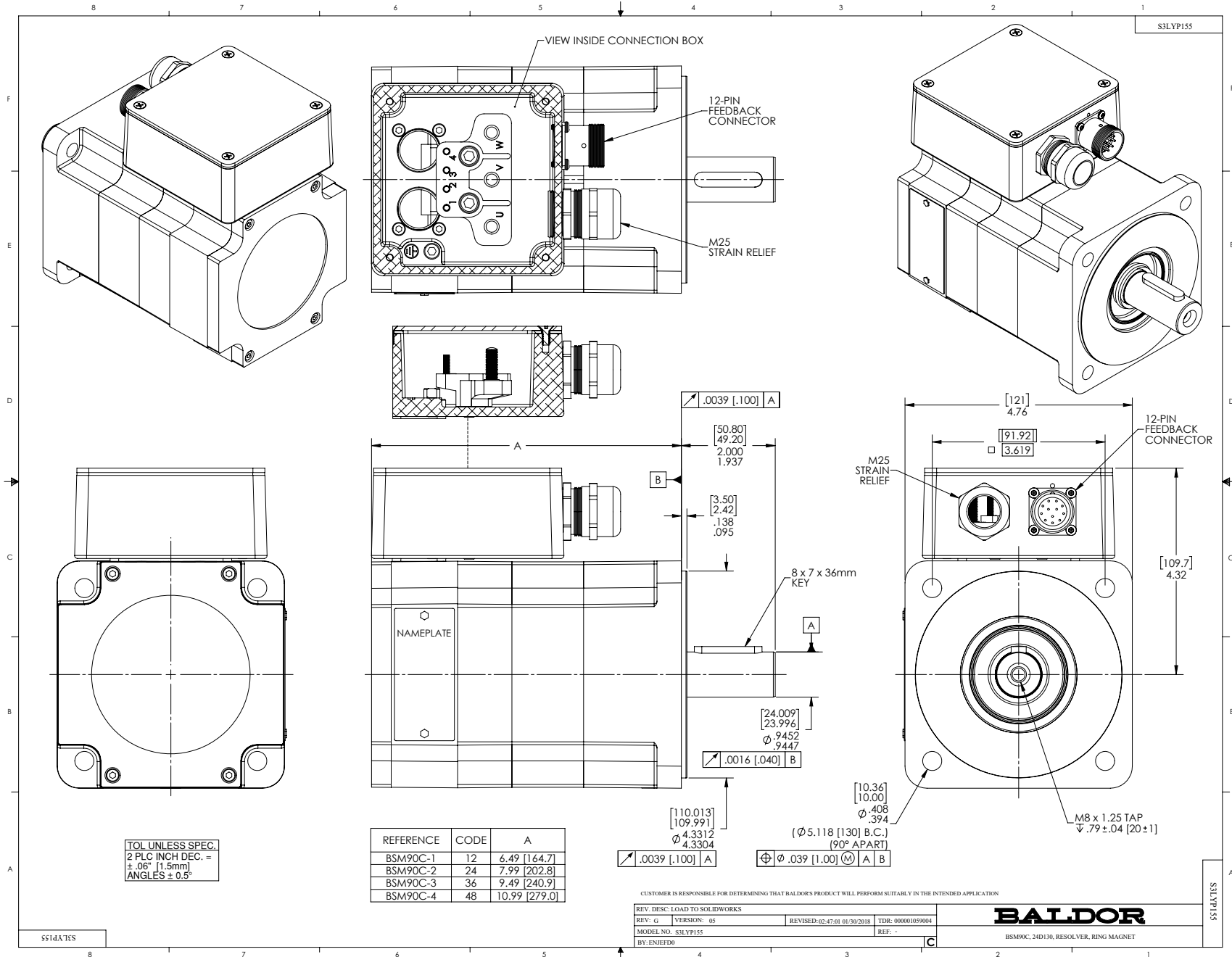
<b>Frame:</b>	D130D		
<b>Frame Material:</b>	Laminated		
<b>Motor Lead Quantity/Wire Size:</b>	3 @ 14 AWG		
<b>Mounting Arrangement:</b>	F1		
<b>Nameplate Output:</b>	3.33KW		
<b>Shaft Rotation:</b>	Reversible		
<b>Motor Standards:</b>	IEC		

<b>Nameplate NP2863L</b>			
<b>CAT.NO.</b>	BSM90C-375AA		
<b>SPEC.</b>	S3P155W081		
<b>MFG.NO.</b>			
<b>TORQ CONT STALL</b>	7.8 NM		
<b>CUR CONT STALL/A RMS</b>	12.1		
<b>POWER</b>	3.33KW		
<b>RATED SPEED/RPM(1/MIN)</b>	4000		
<b>RATED BUS VOLTS</b>	300		
<b>PEAK CUR/A RMS</b>	30.8		
<b>MAX SPEED/RPM(1/MIN)</b>	7000		
<b>IP</b>	54	<b>IC</b>	410
<b>CLASS</b>	F	<b>WT.</b>	15.8
			<b>25C RATED</b>

Parts List		
Part Number	Description	Quantity
SA089481	SA S3P155W081	1.000 EA
RA082306	RA S3P155W081	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
HW2511A101	KEY, 8MM X 7MM X 36MM W/ROUNDED ENDS	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
S3EP3504C23	ENDPLATE, FR-BSM90, RESOLVER, KO BOX MTG	1.000 EA
84YN0040J020	M4 X 20MM SHC SCREW	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
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
84YN0040J020	M4 X 20MM SHC SCREW	4.000 EA
WD1000D84	TERMINAL, NON-INS RING, 22-18 GA, BULK P	2.000 EA
99XM0356A02	STICK SCREW, #3-56 X .125 LG. HEX (MARK	2.000 EA
MG2000A17	RUST INHIBITOR PART # SRPO #20	0.001 GA
BG6205E03	6205 D.SL,C3,POLYREX EM	1.000 EA
RF0001	RESOLVER, BRUSHLESS, 1 SPEED, 1.4165 DIA	1.000 EA
S3CB3002E01	BSM90 BLDC FEEDBACK COVER LIGHT GREY	1.000 EA
S4CB5001A40	TERM BOX ASSY BSM90-100 M25 TAP, 12P M23	1.000 EA
NP2863L	NAMEPLATE BSM90/100 ALUM, LASER ETCHED	1.000 EA

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
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
PK3083	STYROFOAM PACKING CRADLE	1.000 EA
27PA1001	PKG GRP, PRINT PK1027A06	1.000 EA
LB1534	MYLAR CE WARNING LABEL FOR SERVO MOTORS	1.000 EA
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 EA
LB1594	MYLAR WEEE WHEELIE BIN SYMBOL FOR CE MOT	1.000 EA

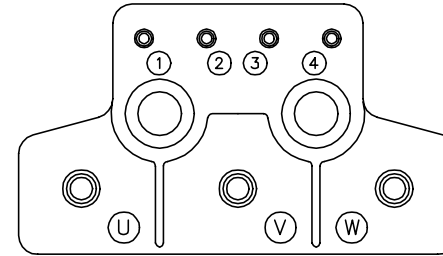
No performance data has been  
assigned to this product.



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MOTOR CONNECTIONS

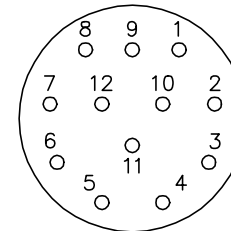
TERMINAL LABEL	FUNCTION	INTERNAL WIRE MARKING
1	THERMAL SWITCH	YELLOW
2	THERMAL SWITCH	YELLOW
3	BRAKE (OPTIONAL)	BLACK
4	BRAKE (OPTIONAL)	BLACK
⏏	GROUND	-----
U	PHASE U	T1
V	PHASE V	T2
W	PHASE W	T3



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.

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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: ENJEFDO
MTL: -	Ⓢ Ⓜ	

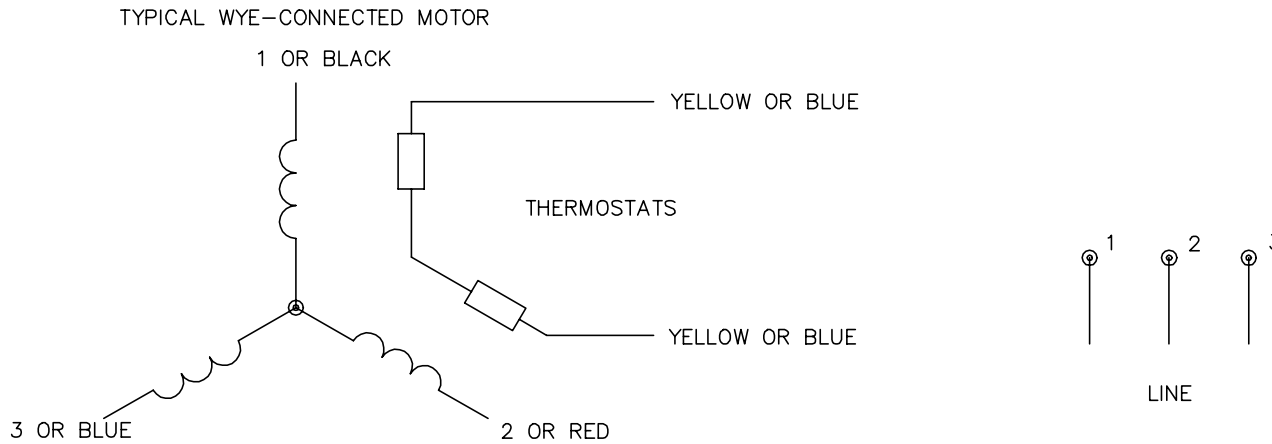
**BALDOR - RELIANCE®**

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

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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	
Z0V9000003 CD0006A02	FILE: \AAA\00068\606	REVISED: 10:02:28 11/21/2006	
	MTL: -	BY: ENJFDO	

**BALDOR ELECTRIC Co.**

3PH, SV, 3 LEADS, WYE CONNECTED

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