

BALDOR® • RELIANCE™

Customer information packet

BSM80N-175BA

BSM80N-175BA T'STAT, RESOLVER,

Specifications

Enclosure	TENV
Nameplate Speed	4000
Agency Approvals	CE CSA TUV UR
Base Indicator	Bracket Mounted
Dimensional Drawing Numbers	S2LYP117
Frame	D100D
Frame Material	Exposed Laminations
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Standards	IEC
Mounting Arrangement	F1
Nameplate Output	0.58KW
Shaft Rotation	Reversible

Part detail

Revision	Z
Type	AC
Mech. spec.	S2P117
Base	
Status	PRD/A
Elec. spec.	S2WGW039
Layout	S2LYP117
Eff. date	06-03-2024
CD Diagram	CD0006A02
Poles	04
Leads	3#18
Proprietary	False
Created date	01-01-0001

Nameplate

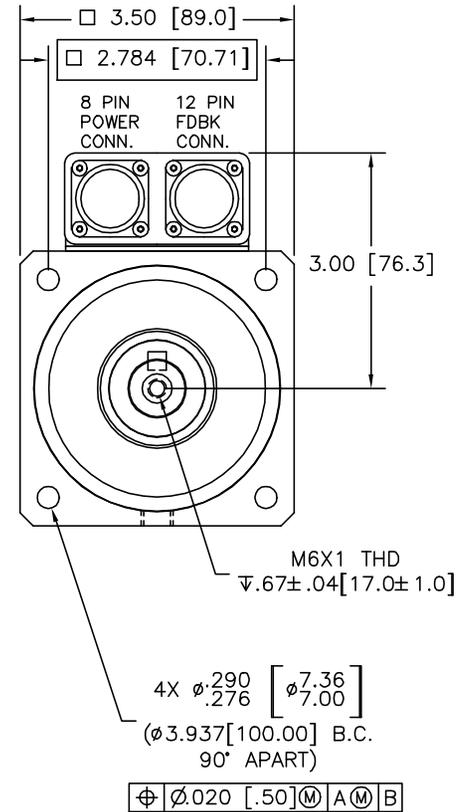
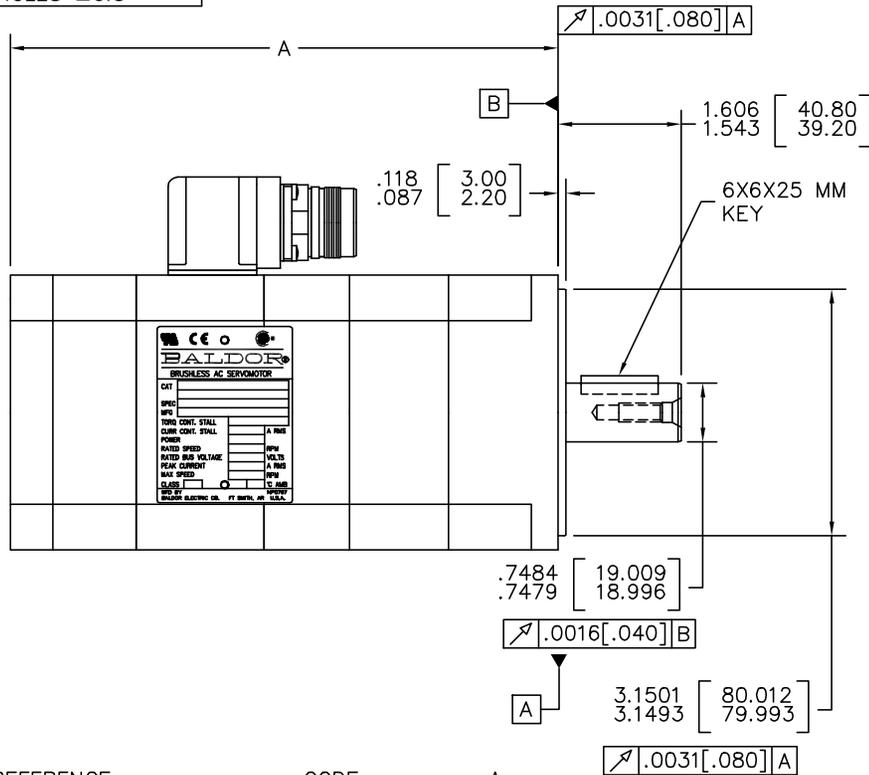
NP2864L									
CAT.NO.	BSM80N-175BA								
BLANK									
SPEC.	S2P117W039G1								
MFG.NO.									
TORQ CONT STALL	1.65 NM								
CUR CONT STALL/A RMS	2.08								
POWER	0.66KW								
RATED SPEED/RPM(1/MIN)	4000								
RATED BUS VOLTS	320								
PEAK CUR/A RMS	8.32								
MAX SPEED/RPM(1/MIN)	7000			AMB.	25				
CLASS	F	IP	54	IC	410	MOTOR MASS	4.5		

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-MRP090-25	Std. Servo Gearbox Ratio 25:1	E4
GBSM80-MRP120-50	Std. Servo Gearbox Ratio 50:1	E4
GBSM80-MRP155-100	Std. Servo Gearbox Ratio 100:1	E4

S2LYP117

TOL UNLESS SPEC.
 2 PLC INCH DEC. =
 ±.06" [1.5mm]
 ANGLES ±0.5°



REFERENCE	CODE	A
BSM80A/N-1 & BSM80B-0	10	7.00 [177.9]
BSM80A/N-2 & BSM80B-1	20	8.25 [209.6]
BSM80A/N-3	30	9.50 [241.4]
BSM80B-2	32	9.75 [247.7]
BSM80B-3	44	11.25 [285.8]

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

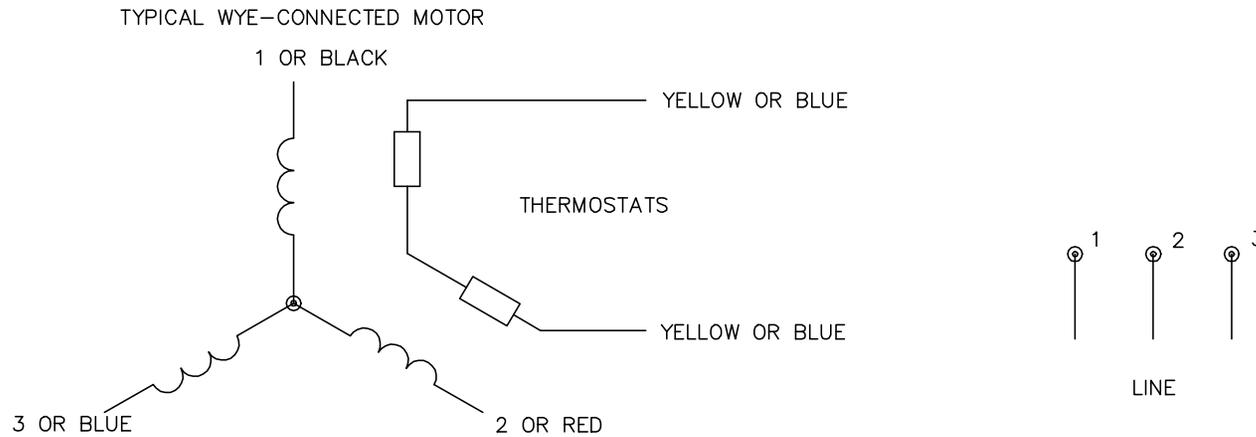
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REV. LTR: C	BY: FN	REVISED: 10:21:11 09/02/2004	TDR: 342291
FILE: AAA00073107		REF: S2LYP117	
MTL: -			

BALDOR ELECTRIC Co.

BSM80, 19D100, BRAKE, RESOLVER, M23 CONNECTORS

S2LYP117

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: ENJFDO

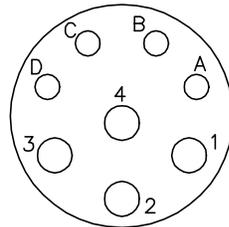
BALDOR ELECTRIC Co.

3PH, SV, 3 LEADS, WYE CONNECTED

CD0006A02

CD1321

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



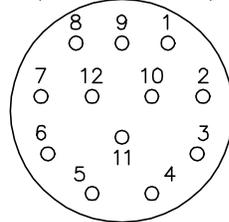
MOTOR CONNECTIONS

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