Customer information packet

BSM80C-275RF

BSM80C-275RF T'STAT ENCODER

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11/20/2026 7:07:43 AM

Specifications

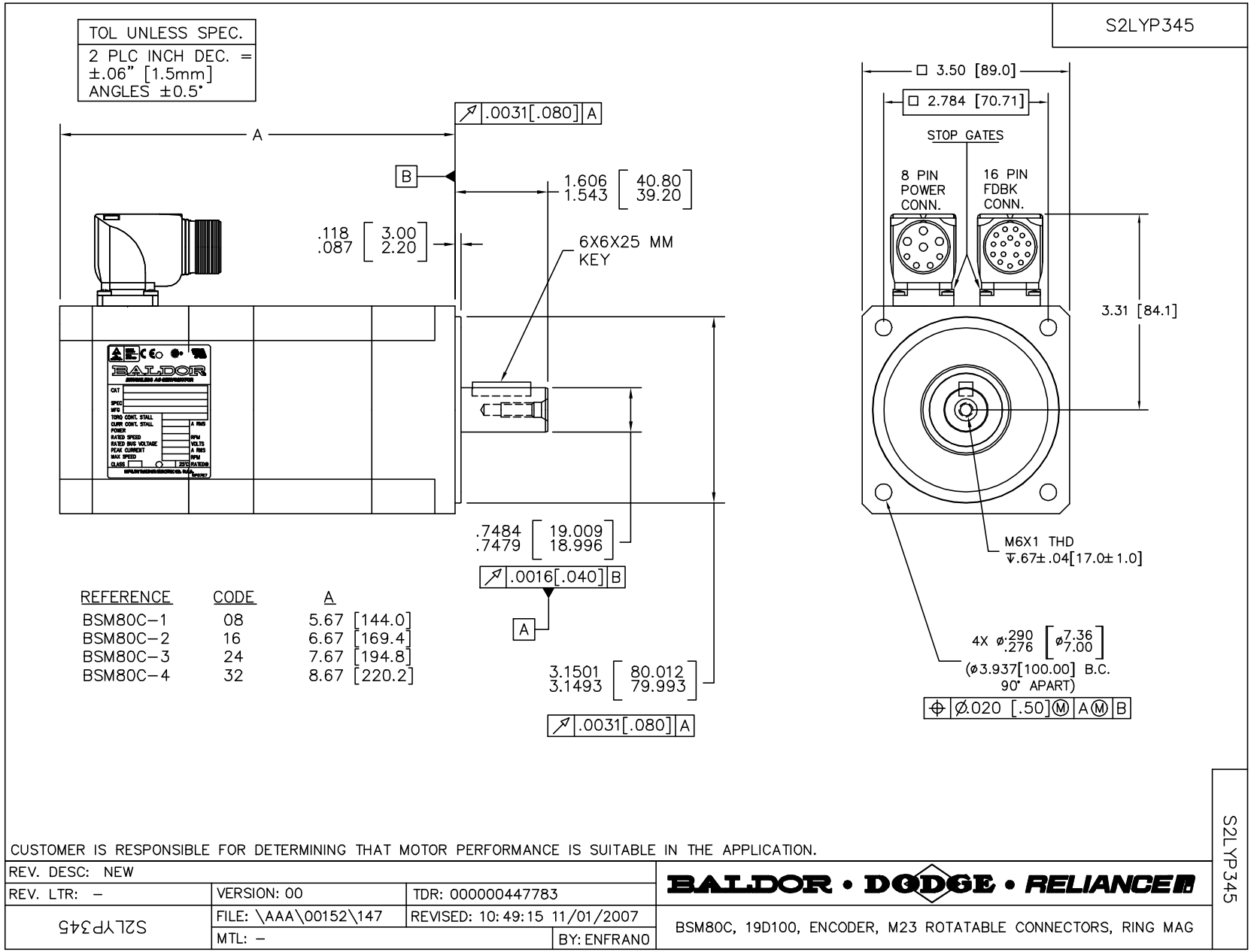
Enclosure	TENV
Nameplate Speed	4000
Agency Approvals	CE
	CSA
	TUV
	UR
Base Indicator	Bracket Mounted
Dimensional Drawing Numbers	S2LYP345
Frame	D100D
Frame Material	Exposed Laminations
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Standards	IEC
Mounting Arrangement	F1
Nameplate Output	0.92KW
Shaft Rotation	Reversible

Part Detail

Revision	W
Type	AC
Mech. spec.	S2P345
Base	
Status	PRD/A
Elec. spec.	S2WGW048
Layout	S2LYP345
Eff. date	07-15-2025
CD Diagram	CD0006A02
Poles	04
Leads	3#18
Proprietary	False
Created date	11-01-2007

Nameplate

NP2864L									
CAT.NO.	BSM80C-275RF								
BLANK									
SPEC.	S2P345W048								
MFG.NO.									
TORQ CONT STALL	2.4 NM								
CUR CONT STALL/A RMS	3.2								
POWER	0.92KW								
RATED SPEED/RPM(1/MIN)	4000								
RATED BUS VOLTS	300								
PEAK CUR/A RMS	10.5								
MAX SPEED/RPM(1/MIN)	7000					**AMB.**	25		
CLASS	F	**IP**	54	**IC**	410	**MOTOR MASS**		5.4	

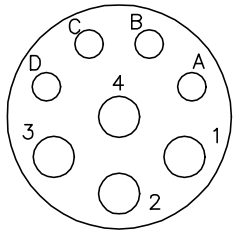

TOL UNLESS SPEC.
2 PLC INCH DEC. = ±.06" [1.5mm]
ANGLES ±0.5°
S2LYP345
.0031[.080] A
A
B
1.606 [40.80]
1.543 [39.20]
.118 [3.00]
.087 [2.20]
6X6X25 MM KEY
.7484 [19.009]
.7479 [18.996]
.0016[.040] B
A
3.1501 [80.012]
3.1493 [79.993]
.0031[.080] A
REFERENCE CODE A
BSM80C-1 08 5.67 [144.0]
BSM80C-2 16 6.67 [169.4]
BSM80C-3 24 7.67 [194.8]
BSM80C-4 32 8.67 [220.2]
□ 3.50 [89.0]
□ 2.784 [70.71]
STOP GATES
8 PIN POWER CONN.
16 PIN FDBK CONN.
3.31 [84.1]
M6X1 THD
↧.67±.04[17.0±1.0]
4X ø.290 [ø7.36]
.276 [7.00]
(ø3.937[100.00] B.C.
90° APART)
⌖ Ø.020 [.50]Ⓜ A Ⓜ B
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.
REV. DESC: NEW
REV. LTR: –
VERSION: 00
TDR: 000000447783
S2LYP345
FILE: \AAA\00152\147
REVISED: 10:49:15 11/01/2007
MTL: –
BY: ENFRANO
BALDOR • DODGE • RELIANCE
BSM80C, 19D100, ENCODER, M23 ROTATABLE CONNECTORS, RING MAG
S2LYP345

CD1297A04

MOTOR CONNECTIONS

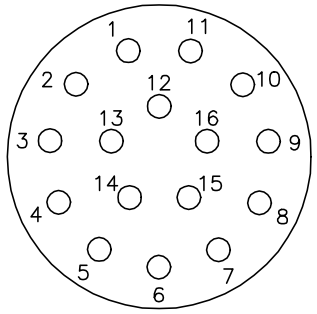
PIN	FUNCTION	INTERNAL WIRE COLOR
A	*THERMAL SWITCH	YELLOW
B	*THERMAL SWITCH	YELLOW
C	*BRAKE	BLACK
D	*BRAKE	BLACK
1	U	BLACK
2	GROUND	GREEN OR **GREEN/YELLOW
3	W	BLUE
4	V	RED

*WHEN REQUIRED
**CE MOTORS REQUIRE GREEN/YELLOW GROUND



8 PIN MOTOR CONNECTOR
THREADED CRIMP PIN STYLE

PIN	FUNCTION	WIRE COLOR
1	DC+5V	RED/BLUE
2	GROUND	BLUE/RED
3	CHANNEL A	BLUE
4	CHANNEL $\overline{A}$	ORANGE
5	CHANNEL B	GREEN
6	CHANNEL $\overline{B}$	BROWN
7	CHANNEL Z	BLACK
8	CHANNEL $\overline{Z}$	YELLOW
9	OPEN	---
10	CHANNEL U	WHITE/BROWN
11	CHANNEL $\overline{U}$	BROWN/WHITE
12	CHANNEL V	WHITE/GRAY
13	CHANNEL $\overline{V}$	GRAY/WHITE
14	CHANNEL W	RED/ORANGE
15	CHANNEL $\overline{W}$	ORANGE/RED
16	OPEN	---



16 PIN CONNECTOR
THREADED CRIMP PIN STYLE

16– #20 CONTACT SIZE
(CRIMP SIDE)

CD1297A04

REV. DESC: ADD CE NOTE AND GREEN/YELLOW GROUND		
REV. LTR: A	VERSION: 01	TDR: 000001192301
FILE: \AAA\00115\154	REVISED: 02:31:08 06/13/2022	BY: ENDANDO
MTL: –		

BALDOR - RELIANCE®

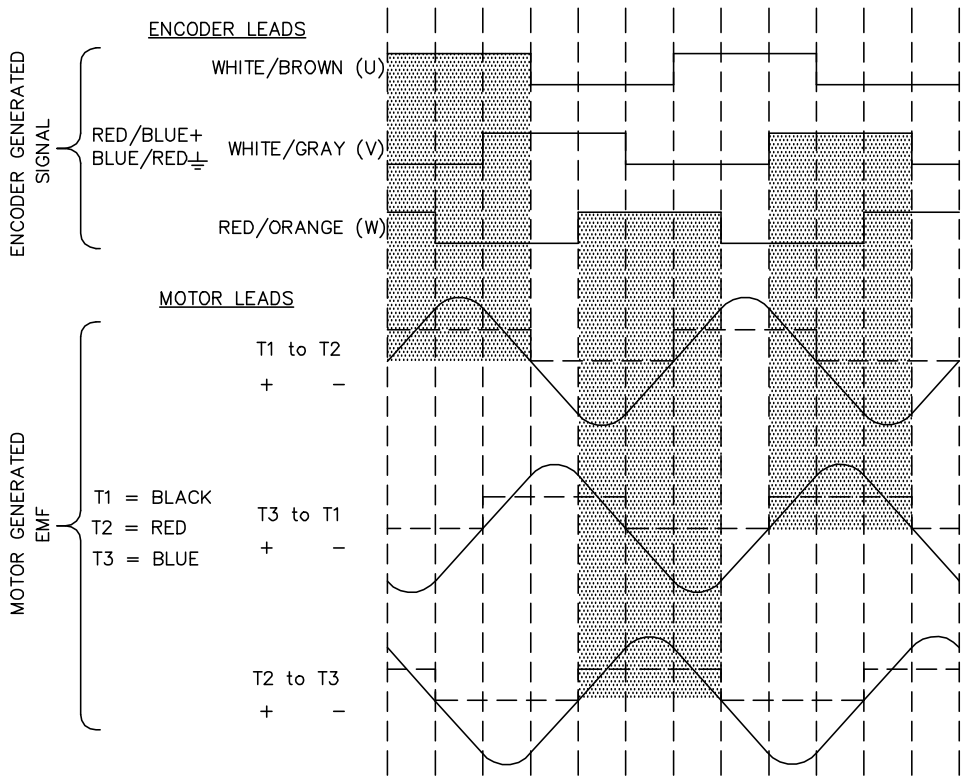
KOYO ENCODER (CHANNELS TO MATCH TMGW/SUMTAK OUTPUT)

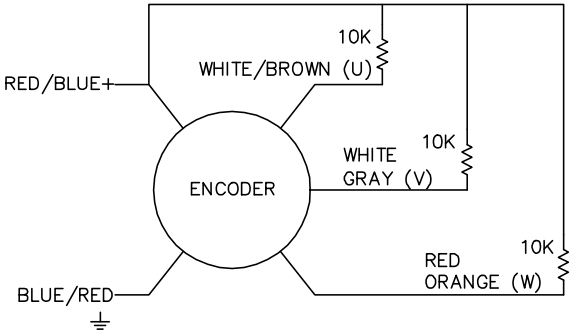
SH 1 of 1

CD1338A01

BRUSHLESS D.C. COMMUTATION

8 POLE MECHANICAL DEGREES	0	15	30	45	60	75	90	105	120	135	150	165	180
4 POLE MECHANICAL DEGREES	0	30	60	90	120	150	180	210	240	270	300	330	360
ELECTRICAL DEGREES	0	60	120	180	240	300	360	420	480	540	600	660	720



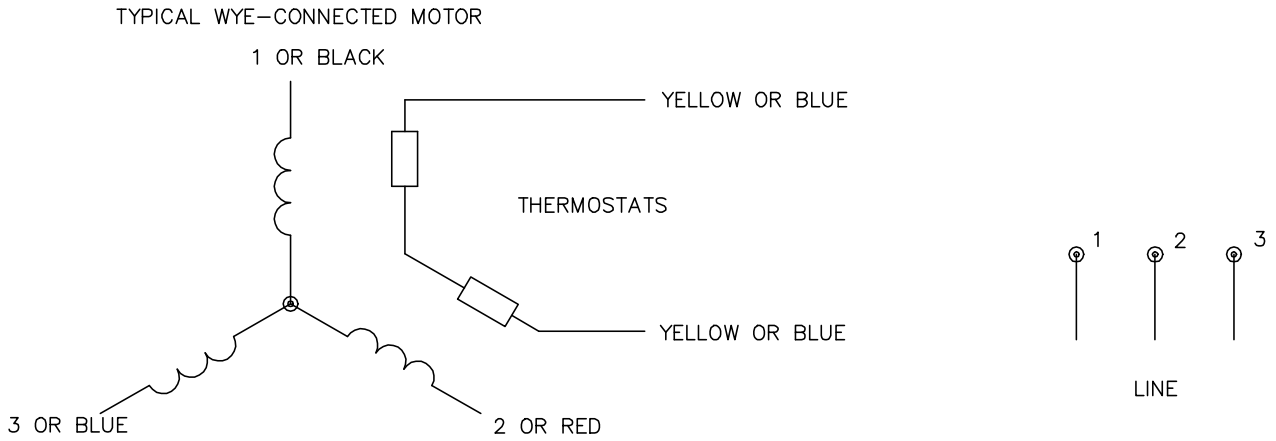


NOTE:
CCW ROTATION VIEWING
MOTOR SHAFT END

REV. DESC: NEW			BALDOR ELECTRIC Co.
REV. LTR: –	BY: FN	REVISED: 11:22:25 03/24/2004	TDR: 328266
CD1338A01		FILE: AAA00115153	REF: CD1338A01
		MTL: –	BLDC COMMUTATION KOYO ENC.(CHANNELS TO MATCH TMGW/SUMTAK)

CD1338A01

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