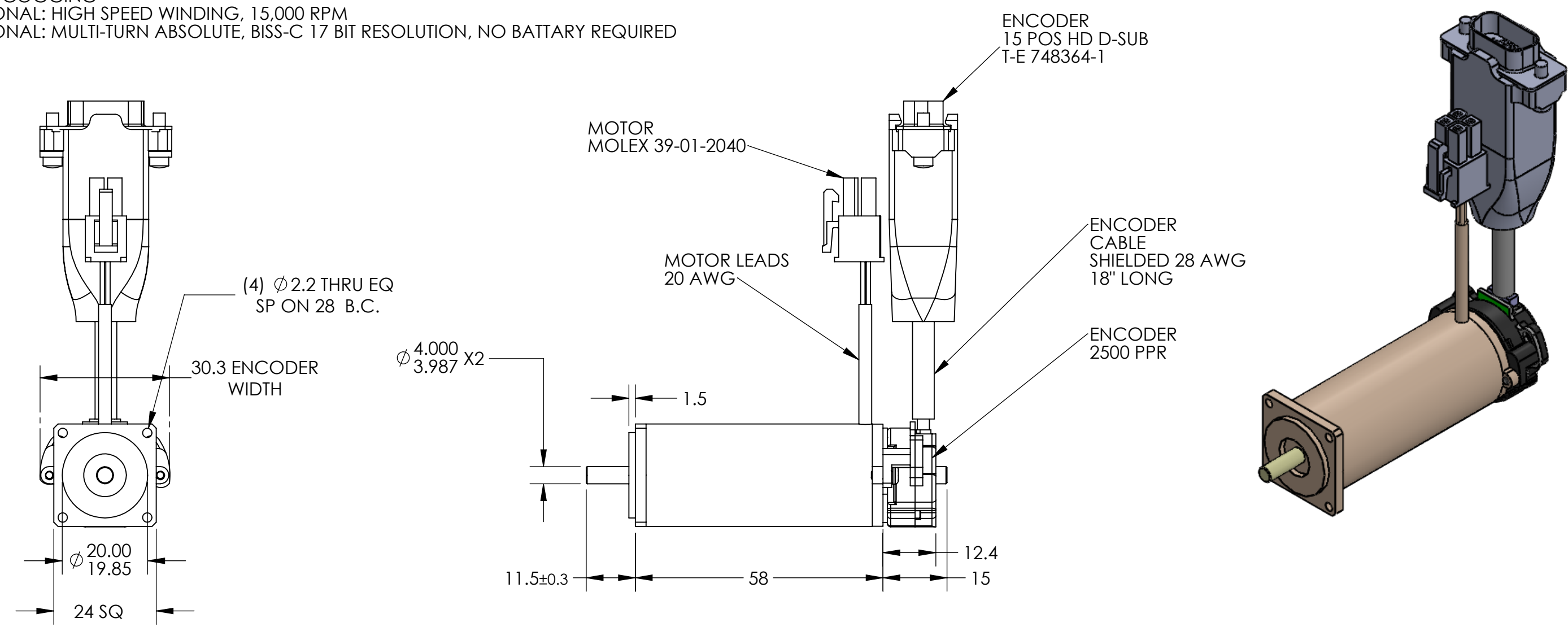


PART REVISION HISTORY					
REV.	DESCRIPTION	ECO	DWN	CHKD	DATE

- NOTES:
1. Kt AND Ke BASED PEAK SINE WAVE DRIVE
 2. 4 POLE DESIGN
 3. ZERO COGGING
 4. OPTIONAL: HIGH SPEED WINDING, 15,000 RPM
 5. OPTIONAL: MULTI-TURN ABSOLUTE, BISS-C 17 BIT RESOLUTION, NO BATTERY REQUIRED



MOTOR PARAMETERS		
		MP24-2B
NOMINAL VOLTAGE	VDC	24
NO LOAD SPEED	RPM	4615
RATE SPEED	RPM	2875
RATED TORQUE	Nm	0.1
PEAK TORQUE	Nm	0.3
CONTINUOUS CURRENT	AMPS	2
PEAK CURRENT	AMPS	6
VOLTAGE CONSTANT, Ke	V/KRPM	5.2
TORQUE CONSTANT, Kt	Nm/A	.049
RESISTANCE	OHM	3.02
INDUCTANCE	mH	0.177
MOMENT OF INERTIA	gm-cm ²	TBD
WEIGHT	kg	0.16

ENCODER WIRING		
POS	COLOR	FUNCTION
1	RED	5 VDC
2	BLACK	COMMON
3	BROWN	CHANNEL A
4	WHITE	CHANNEL A/
5	BLUE	CHANNEL B
6	GREEN	CHANNEL B/
7	ORANGE	INDEX
8	YELLOW	INDEX /
9		
10		
11	VIOLET	CHANNEL U
12	WHT/BRN	CHANNEL V
13	WHT/ORG	CHANNEL W
14		
15	SHIELD	SHIELD

MOTOR CONNECTOR		
POS	COLOR	VALUE
1	RED	PHASE R
2	BLACK	PHASE S
3	WHITE	PHASE T
4		

ENCODER SPECIFICATIONS	
TYPE	OPTICAL
OUTPUT TYPE	LINE DRIVER
LINE COUNT	2500
INPUT VOLTAGE	5 +/- 5%
CURRENT	50 mA
MAX FREQ	500 KHz *

NOTICE ON REPRODUCTIONS
 THIS DRAWING THE DESIGN AND THE PATENTS IT COVERS ARE THE PROPERTY OF CYMATIX, INC., OR THEIR CUSTOMERS. THEY WILL NOT BE REPRODUCED, COPIED, LOANED, EXHIBITED NOR USED EXCEPT IN THE LIMITED WAY AND THE PRIVATE USE PERMITTED BY THE CONSENT GIVEN BY THE LENDER TO THE BORROWER.



MATERIAL	TITLE: BL MOTOR, 24mm, 24 VDC 2500 ppr ENCODER	
FINISH	PART NO. MP24-2B-MX2500-NN-001	
DRAWN JPB	DATE 07/07/20	SIZE B
CHECKED TPB	DATE 07/07/20	THIRD ANGLE
SCALE: NONE		SHEET 1 OF 1
DWG. NO. R		PART REV. A