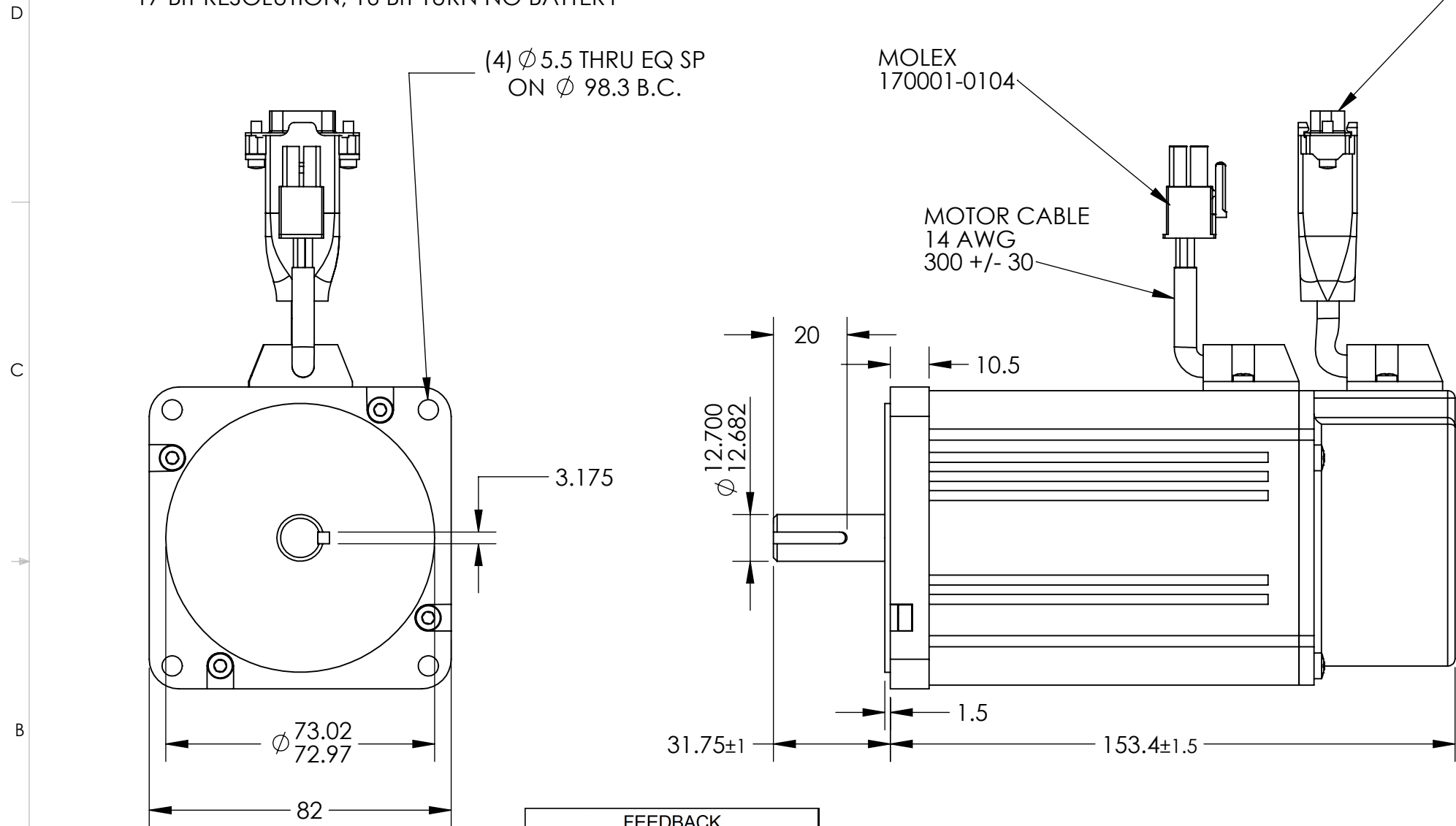


- NOTES:
1. K_t AND K_e BASED ON RMS SINE WAVE DRIVE
 2. 8 POLE DESIGN
 3. OPTION 1.7 N-m FAIL SAFE BRAKE
 4. OPTIONAL MULTI-TURN ABSOLUTE BISS-C
17 BIT RESOLUTION, 16 BIT TURN NO BATTERY

PART REVISION HISTORY					
REV.	DESCRIPTION	ECO	DWN	CHKD	DATE



FEEDBACK
15 POS MALE
D-SUB HD
T-E 748364-1

MOLEX
170001-0104

MOTOR CABLE
14 AWG
300 +/- 30

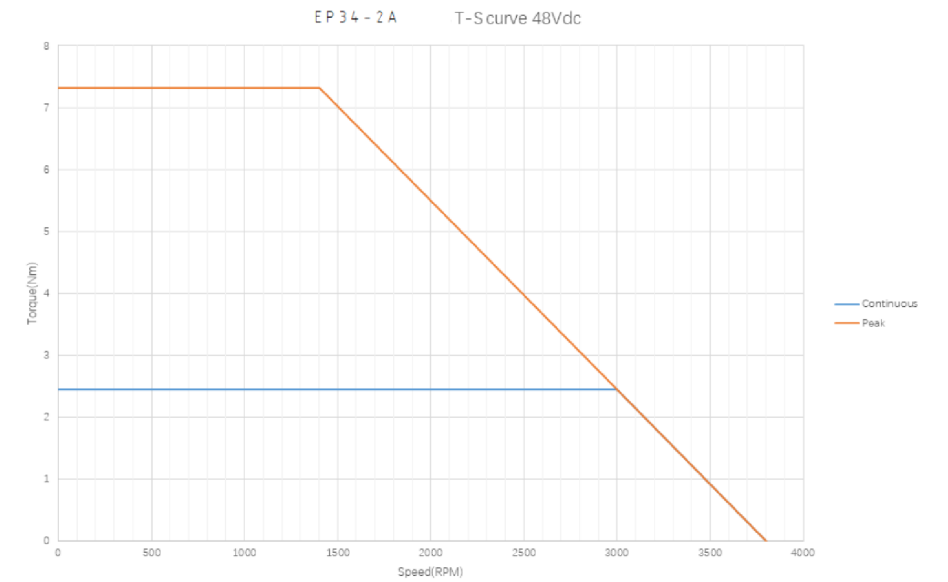
(4) ϕ 5.5 THRU EQ SP
ON ϕ 98.3 B.C.

FEEDBACK		
Pin	Color	Function
1	Red	5 vdc
2	Black	GND
3	Brown	Chl A
4	White	Chl A/
5	Blue	Chl B
6	Green	Chl B/
7	Orange	Index
8	Yellow	Index/
9		
10		
11	Violet	COMM A
12	WHT/BRN	COMM B
13	WHT/ORG	COMM C
14		
15	Shield	Shield

Motor leads MOLEX 170001-0104		
Pin	Color	Function
1	Yellow	Phase U
2	Green	Phase V
3	Blue	Phase W
4		

ENCODER SPECIFICATIONS	
TYPE	OPTICAL
OUTPUT TYPE	LINE DRIVER
LINE COUNT	2500
GATED	A / B AT 90 DEGREE
INPUT VOLTAGE	5 VDC +/- 5%
CURRENT	55 mA TYPICAL

MOTOR PARAMETERS		
		EP80-2A
BUS VOLTAGE	VDC	48
RATE SPEED	RPM	3000
RATED TORQUE @ 3000 RPM	N-m	2.44
POWER @ RATED SPEED	WATTS	765
PEAK TORQUE	N-m	7.2
CONTINUOUS CURRENT 0-p	AMPS	21
PEAK CURRENT 0-p	AMPS	63
VOLTAGE CONSTANT, K_e rms	V/KRPM	8.5
TORQUE CONSTANT, K_t rms	N-m/A	0.116
RESISTANCE	OHM	0.12
INDUCTANCE	mH	0.27
MOMENT OF INERTIA	Kg-cm ²	1.45
INSULATION CLASS		F
WEIGHT	Kg	2.8



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TOLERANCES UNLESS OTHERWISE SPECIFIED (U.O.S.)

DECIMALS	C'BREAKS	FRAC.	MACH. FIN.
.XX = ± .01	.010/.020	1/64	125
.XXX = ± .005	FILLETS	ANGLES	
.XXXX = ± .0005	.020 MAX	1°	



MATERIAL		TITLE: BL MOTOR, NEMA 34, 48 VDC, 2500 PPR	
FINISH		PART NO. EP34-2A-MX2500-CN-001	
DRAWN: JPB	DATE: 10/21/21	SIZE: B	THIRD ANGLE
CHECKED: TPB	DATE: 10/21/21	SCALE: NONE	SHEET 1 OF 1
		DWG. NO. R	