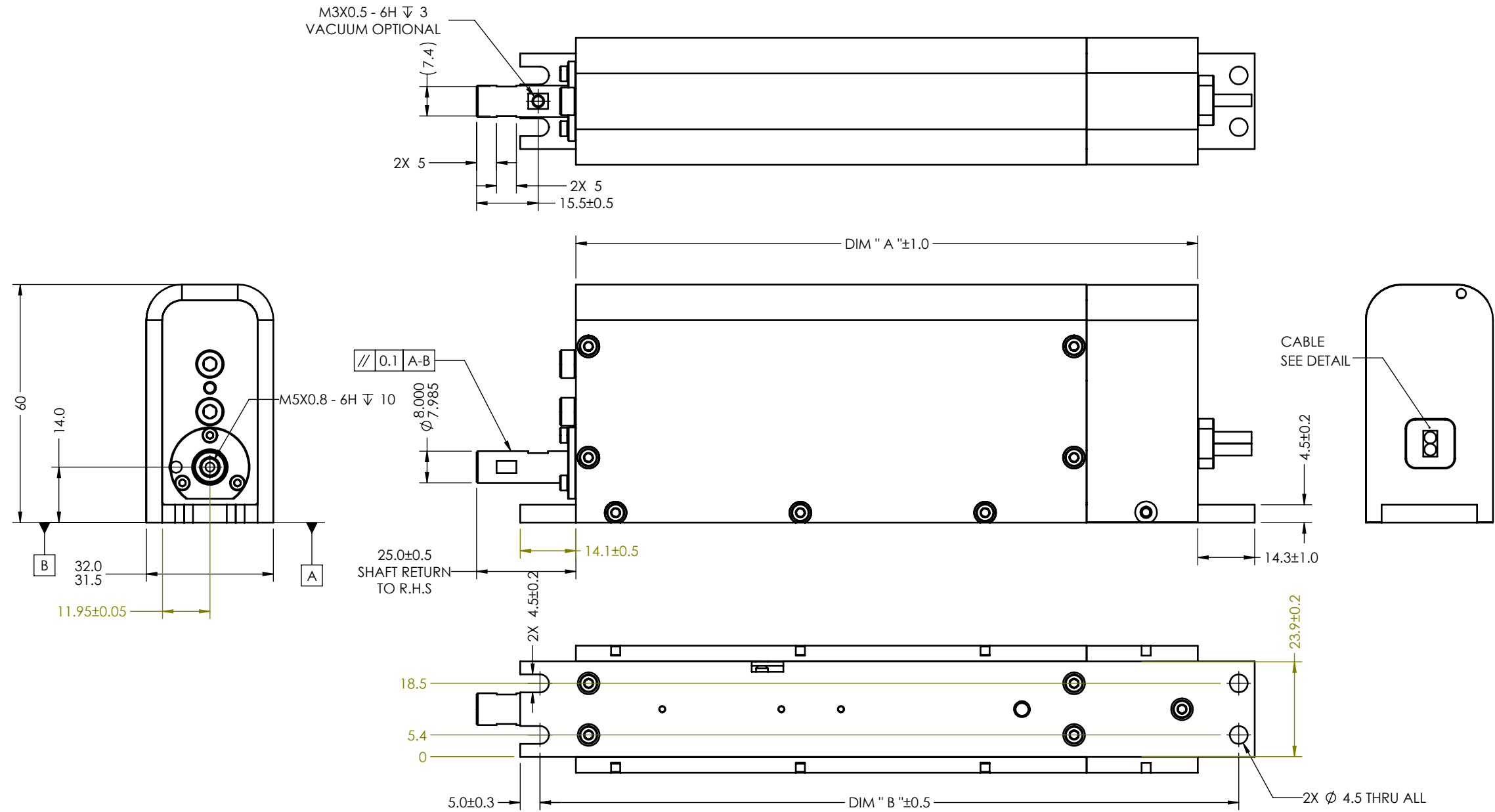


NOTES (UNLESS OTHERWISE SPECIFIED)

- 1. LINEAR SPECIFICATIONS:
 ENCODER REPEATABILITY: ± 2 ENCODER COUNTS
 INDEX LOCATION(+Z/-Z): 2 - 4 mm (R.H.S)
 POLE PITCH: 46.8 mm
- 2. VACUUM OPTION: OPTIONAL
- 3. SPRING OPTION: OPTIONAL
- 4. OPERATING TEMPERATURE: 0°C TO 40°C
- 5. PLATING: BLACK CERAKOTE

REVISIONS				
REV	ECR	DESCRIPTION	DATE	APPROVED



No	UNIT	DETAILS	LPL32-008-7X-4F LPL32C-008-7X-4F	LPL32-025-3X-6F LPL32C-025-3X-6F	LPL32-050-3X-6F LPL32C-050-3X-6F	LPL32-075-3X-6F LPL32C-075-3X-6F	LPL32-100-3X-6F LPL32C-100-3X-6F	LPL32-150-3X-6F LPL32C-150-3X-6F	LPL32-200-3X-6F LPL32C-200-3X-6F	LPL32-250-3X-6F LPL32C-250-3X-6F
1	mm	LINEAR STROKE	8	25	50	75	100	150	200	250
2	N	PEAK FORCE	55	55	55	55	55	55	55	55
3	N/A	FORCE CONSTANT	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
4	um	ENCODER RESOLUTION	5, 0.1, 0.5	5, 0.1, 0.5	5, 0.1, 0.5	5,0.5,0.1	5,0.1, 0.5	5,0.1, 0.5	5,0.1, 0.5	5,0.1, 0.5
5	Amp	PEAK CURRENT	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
6	Ohm	TERMINAL RESISTANCE	15	15	15	15	15	15	15	15
7	mH	TERMINAL INDUCTANCE	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
8	kg	MOVING MASS	0.110	0.150	0.150	0.175	0.180	0.200	0.210	0.240
9	kg	TOTAL MASS	1.250	1.410	1.700	2.100	2.320	2.850	3.730	4.480
10		VACUUM OPTION	YES	YES	YES	YES	YES	YES	YES	YES
11		SPRING OPTION	YES	YES	YES	YES	YES	YES	TBD	TBD
12	mm	DIM "A"	141.6	156.7	181.6	221.6	251.6	316.6	411.6	496.6
13	mm	DIM "B"	161	176.0	200.9	241	271	336	431	516

UNLESS OTHERWISE SPECIFIED

ALL DIMENSIONS ARE IN MM
 BREAK EDGES AND REMOVE BURRS

TOLERANCES
 X: ±0.5 X.X: ±0.1
 X.XX: ±0.03 ANGLE: ±0.1°
 CONCENTRICITY: ±0.025
 ROUNDNESS: ±0.025
 EDGE BREAKS: 0.2 MAX
 ALL DIMENSIONS AND TOLERANCES ARE FINAL

MATERIAL: _____

FINISH: _____

MACHINE FINISH: 1.6 ✓

INTERPRET PER: ASME Y14.5-2009

THIRD ANGLE PROJECTION

NAME	DATE
DWN BY: TV	03/22/24
CHK BY: TV	03/22/24
ENG APP: TV	11/07/25
MFG APP: _____	
QA APP: _____	

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SMAC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SMAC IS PROHIBITED.

SMAC
 MOVING COIL ACTUATORS
 5807 VAN ALLEN WAY
 CARLSBAD CA, 92008
 (760) 929-7588

TITLE: LPL32-XXX-YZ

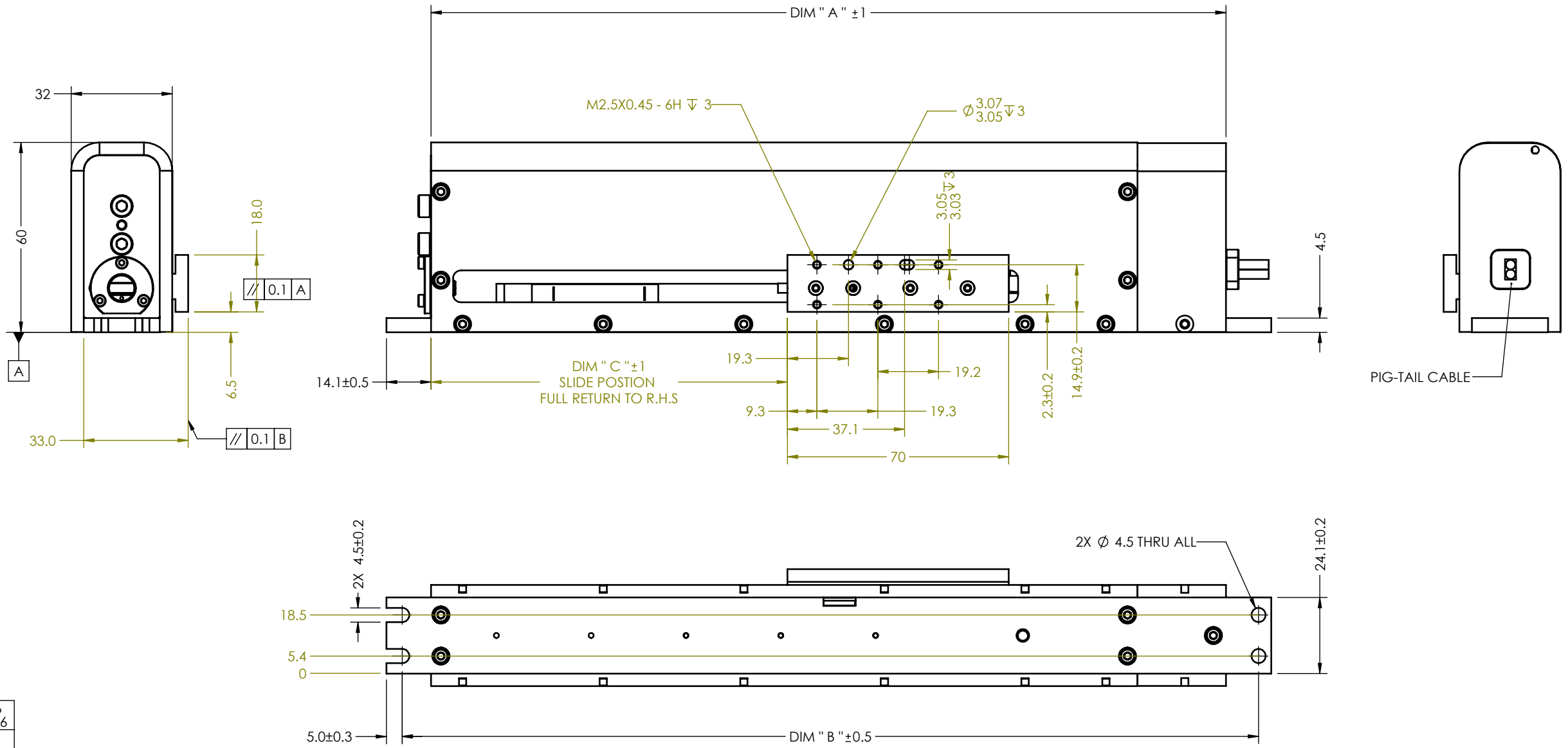
SIZE: B PART NO: LPL32-XXX-YZ REV: H1

SCALE: 1:1 DO NOT SCALE SHEET: 1 / 3

NOTES (UNLESS OTHERWISE SPECIFIED)

- 1. LINEAR SPECIFICATIONS:
 ENCODER REPEATABILITY: ± 2 ENCODER COUNTS
 INDEX LOCATION(+Z/-Z): 2 - 4 mm (R.H.S)
 POLE PITCH: 46.8 mm
- 2. VACUUM OPTION: OPTIONAL
- 3. SPRING OPTION: OPTIONAL
- 4. OPERATING TEMPERATURE: 0°C TO 40°C
- 5. PLATING: BLACK CERAKOTE

REVISIONS				
REV	ECR	DESCRIPTION	DATE	APPROVED



No	UNIT	DETAILS	LPS32-100-3X-6 LPS32C-100-3X-6
1	mm	LINEAR STROKE	100
2	N	PEAK FORCE	55
3	N/A	FORCE CONSTANT	19.3
4	um	ENCODER RESOLUTION	5,0.1, 0.5
5	Amp	PEAK CURRENT	2.9
6	Ohm	TERMINAL RESISTANCE	15
7	mH	TERMINAL INDUCTANCE	7.7
8	kg	MOVING MASS	0.185
9	kg	TOTAL MASS	2.300
10		VACUUM OPTION	NO
11		SPRING OPTION	YES
12	mm	DIM "A"	223.7
13	mm	DIM "B"	270
14	mm	DIM "C"	113

REF. NUMBER	LPL32-050(60)
CONTRACT	LPL32-050(60)

UNLESS OTHERWISE SPECIFIED
 ALL DIMENSIONS ARE IN MM
 BREAK EDGES AND REMOVE BURRS
 TOLERANCES
 X: ±0.5 X.X: ±0.1
 X.XX: ±0.03 ANGLE: ±0.1°
 CONCENTRICITY: ±0.025
 ROUNDNESS: ±0.025
 EDGE BREAKS: 0.2 MAX
 ALL DIMENSIONS AND TOLERANCES ARE FINAL

MATERIAL:
 FINISH:
 MACHINE FINISH: 1.6
 INTERPRET PER: ASME Y14.5-2009
 THIRD ANGLE PROJECTION

NAME: TV
 DATE: 03/22/24
 DWN BY: TV
 CHK BY: TV
 ENG APP: TV
 MFG APP: TV
 QA APP: TV

SMAC 5807 VAN ALLEN WAY
 CARLSBAD CA, 92008
 (760) 929-7588

TITLE: MOVING COIL ACTUATORS

PART NO: LPS32-XXX-YZ

SIZE: B

SCALE: 1:1 DO NOT SCALE

SHEET: 2 / 3

REV: H1

REVISIONS				
REV	ECR	DESCRIPTION	DATE	APPROVED

**PIG-TAIL (LG= 0.5 M)
BUIL-IN CONTROLLER.**

VLCI-R3

No	D-SUB 26(MALE)	No	D-SUB 9(FEMALE)
1	GPI1	2	TX
2	GPI2	3	RX
3	GPI3	5	GND_CAN
4	GPI4	8	
5	GPI_COMMON	9	
10	GPO1		
11	GPO2		
12	GPO3		
13	GPO4		
14	GPO_COMMON (+24V)		
19	STO_IN1		
20	STO_IN2		
21	STO_COMMON		
22	AN_IN1		
23	GND		
24	+5V		

COLOR	POWER LEAD WIRE
RED	+24V
BLACK	GND

PIG-TAIL (0.5 MLG)

PIN No	HDB-26P
1	(L) PH. A+
2	(L) PH. B+
3	(L) PH. Z+
4	NC
5	NC
6	NC
7	NC
8	NC
9	NC
10	(L) PH. A-
11	(L) PH. B-
12	(L) PH. Z-
13	NC
14	NC
15	NC
16	NC
17	NC
18	NC
19	+5 VDC
20	5V RTN
21	NC
22	L. COIL (U)
23	L. COIL (V)
24	L. COIL (W)
25	NC
26	NC

FLYING LEAD (3 MLG)

PIN No	DB-15P
1	PH. A+
2	PH. Z+
3	PH. B+
4	+5 Vdc
5	NC
6	NC
7	HALL A
8	HALL B
9	PH. A -
10	PH. Z -
11	PH. B -
12	5V RTN
13	NC
14	NC
15	HALL C

PIN No	PHOENIX. 4P
1	GND
2	+V
3	MOTOR +
4	MOTOR -

REF. NUMBER	LPL32-050(60)
CONTRACT	LPL32-050(60)

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MM BREAK EDGES AND REMOVE BURRS TOLERANCES X: ±0.5 X.X: ±0.1 X.XX: ±0.03 ANGLE: ±0.1° CONCENTRICITY: ±0.025 ROUNDNESS: ±0.025 EDGE BREAKS: 0.2 MAX ALL DIMENSIONS AND TOLERANCES ARE FINAL	MATERIAL:	NAME	DATE	SMAC 5807 VAN ALLEN WAY CARLSBAD CA, 92008 (760) 929-7588
	FINISH:	DWN BY	TV 03/22/24	
	MACHINE FINISH: 1.6/√	CHK BY	TV 03/22/24	
	INTERPRET PER: ASME Y14.5-2009	ENG APP	TV 11/07/25	
	PROPRIETARY AND CONFIDENTIAL	MFG APP	QA APP	TITLE: MOVING COIL ACTUATORS
	THIRD ANGLE PROJECTION	SIZE: B PART NO:		REV: H1
		SCALE: 1:1 DO NOT SCALE		SHEET: 3 / 3