

## LS8 Motors Specification Parameters:

### Performance:

Maximum Allowable Velocity:	20 [mm/sec]
Dynamic Stall Force:	9 to 11 [N]
Static Holding Force	8 [N] (reference value)
Non-Energized Stiffness	3.3 to 3.8 [N/ $\mu$ ]
Nominal Preload on Stage	72 [N]
Kf	3 to 5 [N/Volt command] – driver & command dependant
Kfv	60 to 80 [N • sec/m]
Offset	1 to 2 [V] – Driver dependant
Attainable Resolution	Better than 100 nm – see application notes.
Nominal Lifetime	20,000 hours under nominal operating conditions

### Electrical:

Maximal Voltage:	125 Vrms, 39.6KHz, sine wave
Maximal Current consumption :	250 mA rms
Maximal Power Consumption :	6.0 W

### Environmental:

Ambient Temperature:	0 - 50°C
Storage:	-20°C - +70°C
Humidity:	0 - 80% non condensing

### Motor + Brush Physical Dimensions:

Length:	42 mm
Width:	60 mm
Height:	28 mm
Weight:	175 gr

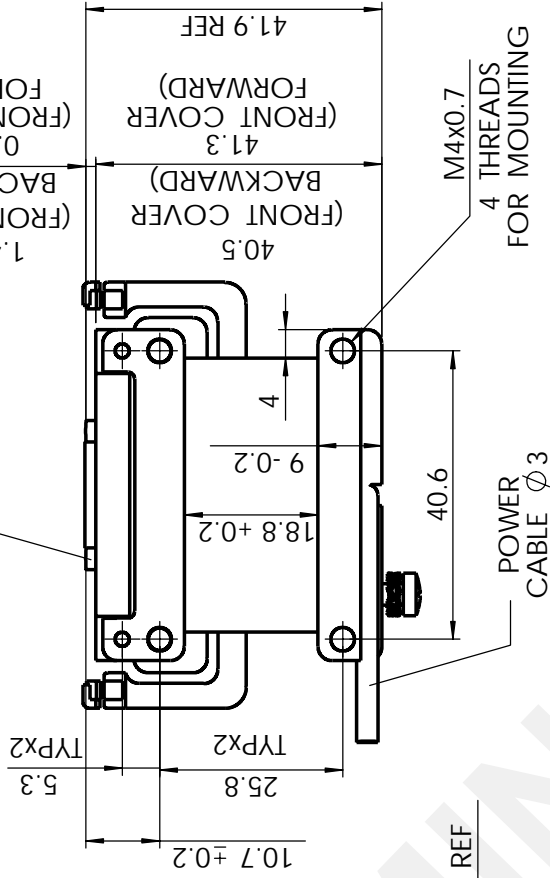
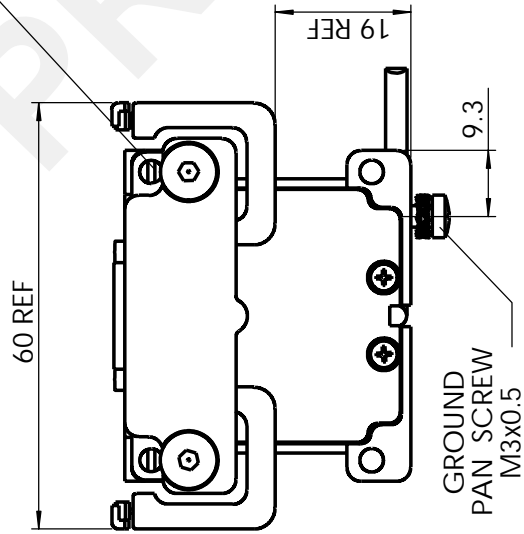
Instead of

DESCRIPTION	DATE	VER/REV	ECO #

DIRECTION OF MOTION

PRELIMINARY

PRELOAD RELEASE ECCENTRICS

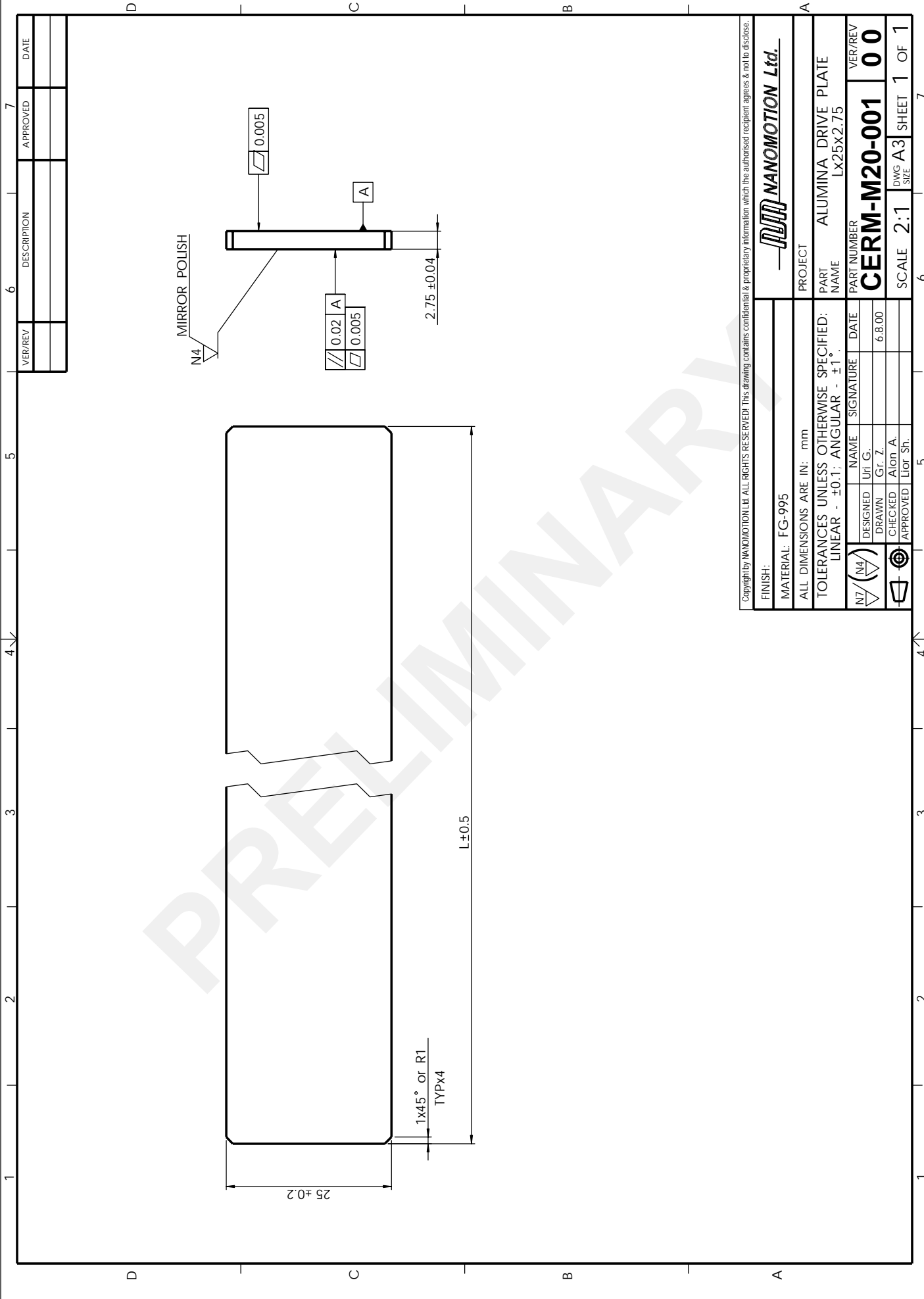


NOTES

1. PRELOAD RELEASE ECCENTRICS SHOULD REMAIN ACCESSIBLE AFTER MOUNTING.
2. ALL DIMENSIONS REFER TO A MOTOR CORRECTLY MOUNTED AGAINST ALUMINA STRIP.

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FINISH:		NANOMOTION Ltd.	
MATERIAL:			
ALL DIMENSIONS ARE IN: mm			
TOLERANCES UNLESS OTHERWISE SPECIFIED: LINEAR - ±0.1; ANGULAR - ±1°			
DESIGNED	NAME	SIGNATURE	DATE
DRAWN	Gil S.		26.10.99
CHECKED	Alon A.		
APPROVED	Lior Sh.		
PART NAME		PART NUMBER	
LS8S-M10-L00-00		LS8S-M10-L00-00	
SCALE 1:1		DWG A4	
		SHEET 1 OF 1	



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FINISH:		NANOMOTION Ltd.	
MATERIAL: FG-995		PROJECT	
ALL DIMENSIONS ARE IN: mm		PART NAME	
TOLERANCES UNLESS OTHERWISE SPECIFIED: LINEAR - ±0.1; ANGULAR - ±1°		ALUMINA DRIVE PLATE Lx25x2.75	
N7 (N4)	DESIGNED	NAME	DATE
Urf G.	DRAWN	Gr. Z.	6.8.00
Alon A.	CHECKED	Liqr St.	
	APPROVED		
PART NUMBER		VER/REV	
<b>CERM-M20-001</b>		<b>0 0</b>	
SCALE: 2:1		DWG A3 SHEET 1 OF 1	

1 2 3 4 5 6 7

A B C D

PRELIMINARY