

# KLA-40-040-0F3-2 ELECTRIC LINEAR ACTUATOR

# KOMP-ACT



With programmable motion and automatic calibration

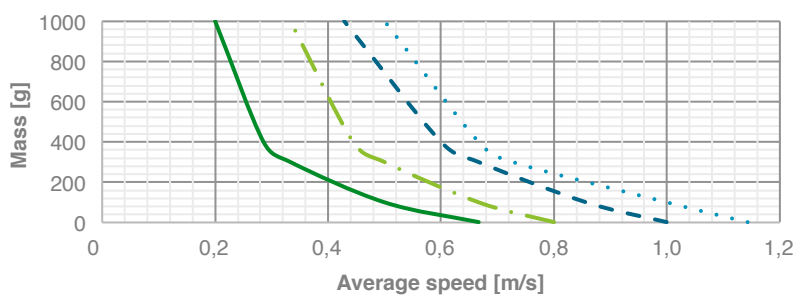
## TECHNICAL DATA

Continuous force	$F_c$	[N]	30
Peak Force	$F_p$	[N]	90
Continuous current	$I_c$	[A]	1.8
Peak current	$I_p$	[A]	6
Phase resistance	$R_p$	[Ohm]	6.6
Stroke length	$S_{max}$	[mm]	40
Repeatability		[mm]	$\pm 0.1$
Precision		[mm]	$\pm 0.5$
Acceleration	$Acc_{max}$	[m/s <sup>2</sup> ]	100
Top speed	$V_{max}$	[m/s]	2.0
Max cycles per minute (*)			200
Lifecycle (**)	Max cycles		20 Mio.
Power supply	DC	[V]	24 or 48
Operating temperature	$T_{op}$	[°C]	-20...+45
Slider mass	$M_s$	[kg]	0.26
Total mass	$M_T$	[kg]	1.46
Rod bearings	Sintered bronze		
Housing Material	Hard-anodized aluminium (aerospace grade)		
Shaft Material	Hard chrome plated steel		
<b>Notes:</b>			
• KLA actuators shall be used with KOMP-ACT's electronic controller KDRV-1-MK			
• (*) For horizontal applications (unsupported)			
• (**) Horizontally tested, unsupported, with a mass of 500 grams at 200 cycles per min at 0.4 m/s speed			

## OPERATION PERFORMANCE

### Actuator speed VS. attached mass: various strokes

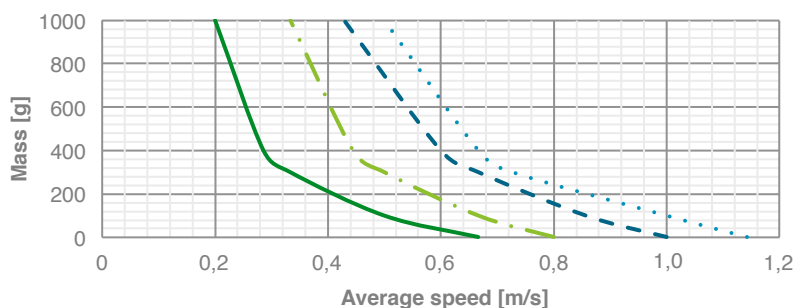
#### Horizontal Operation



Transfer time in ms for an applied mass

Mass [g]	Stroke [mm]			
	10	20	30	40
0	15	25	30	35
100	20	30	35	40
300	30	40	45	50
400	35	45	50	60
1000	50	60	70	80

#### Vertical Operation



Transfer time in ms for an applied mass

Mass [g]	Stroke [mm]			
	10	20	30	40
0	15	25	30	35
100	20	30	35	40
300	30	40	45	50
400	35	45	50	60
1000	50	60	70	80

Stroke — 10mm — 20mm — 30mm — 40mm

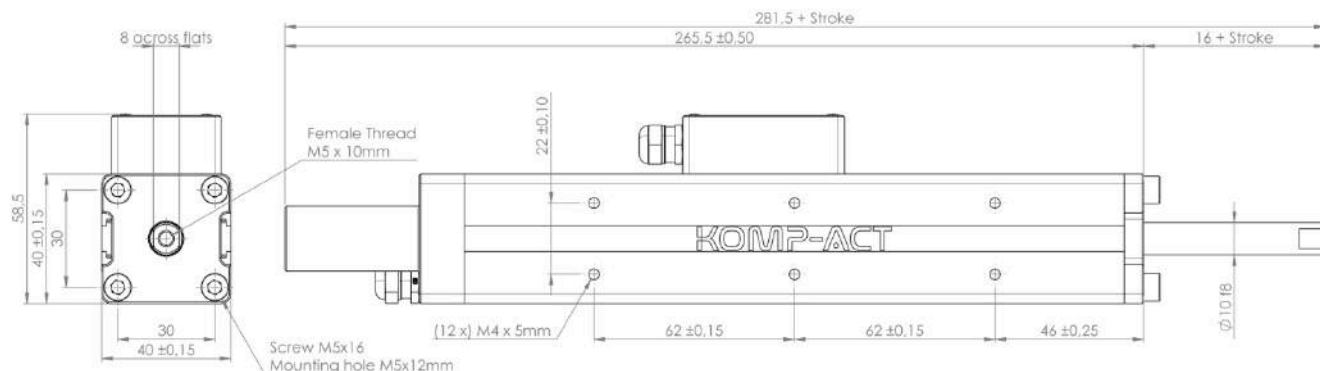
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## MOUNTING INTERFACE



## POWER AND SENSOR CABLES

CABLE TYPE	NOMENCLATURE	DESCRIPTION	LENGTH	EXTERNAL DIAMETER
Power cable	KLA-PWR-X-03-HF-A	3 x 0.50 mm <sup>2</sup>	3 m	6 mm
	KLA-PWR-X-05-HF-A	Shielded cable	5 m	
	KLA-PWR-X-10-HF-A	Outer sheath made of PVC	10 m	
Sensor cable	KLA-SNR-X-03-HF-A	7 x 0.25 mm <sup>2</sup>	3 m	6 mm
	KLA-SNR-X-05-HF-A	Shielded cable	5 m	
	KLA-SNR-X-10-HF-A	Outer sheath made of PVC	10 m	

### Notes:

- On both extremities of each cable, there is one ferrite with 16 mm of outer diameter and 52 mm length.
- Operating temperature of both cables is in the range of -20° C to + 75° C.
- Cables are furnished with required connectors.
- Custom length of cables is available on request.

## PRODUCT DESCRIPTION

