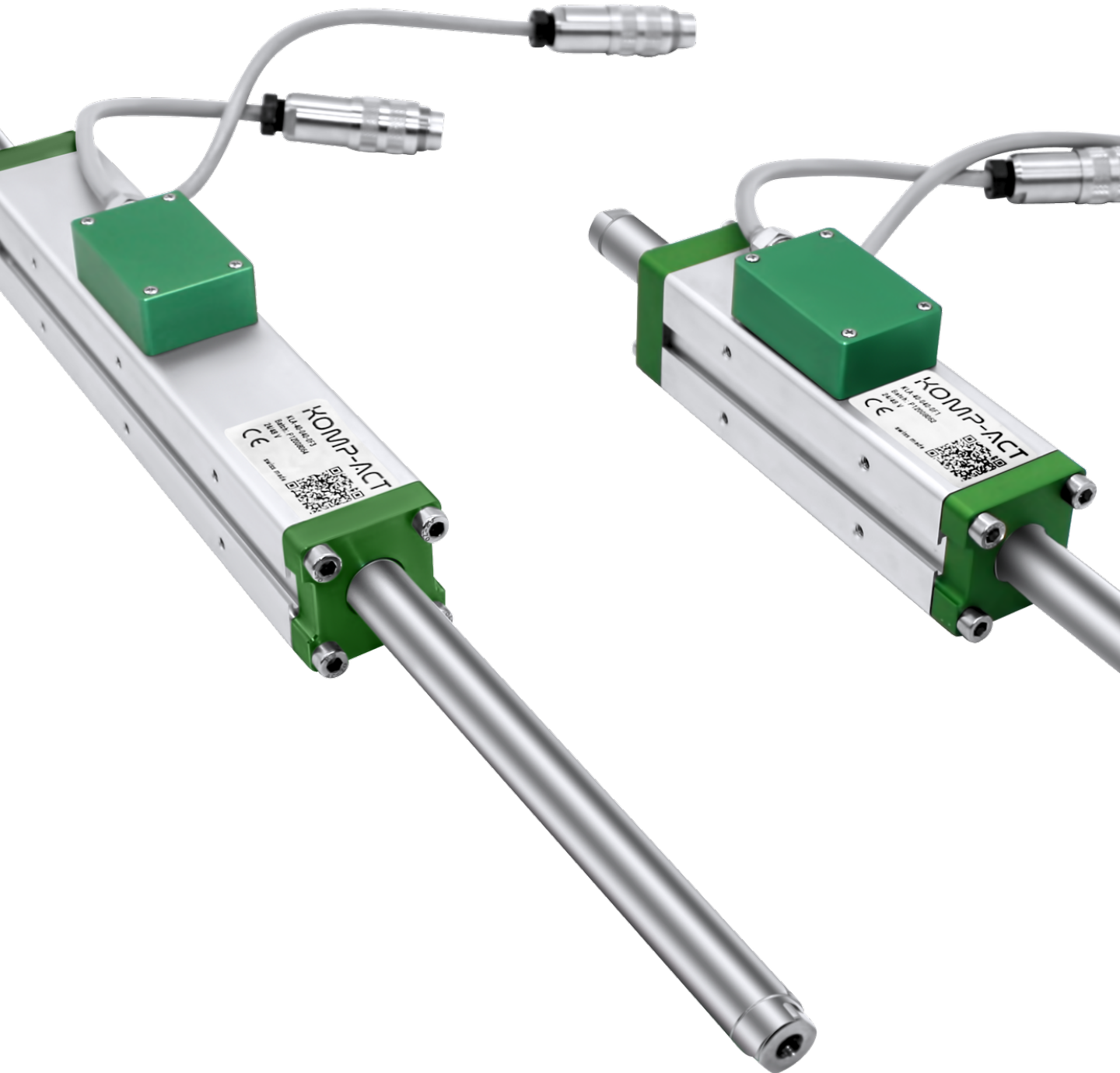


KOMP-ACT

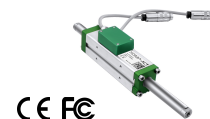


KLM

KOMP-ACT LINEAR MOTOR

KLM-40-0F2 KOMP-ACT LINEAR MOTOR

With programmable strokes and automatic calibration



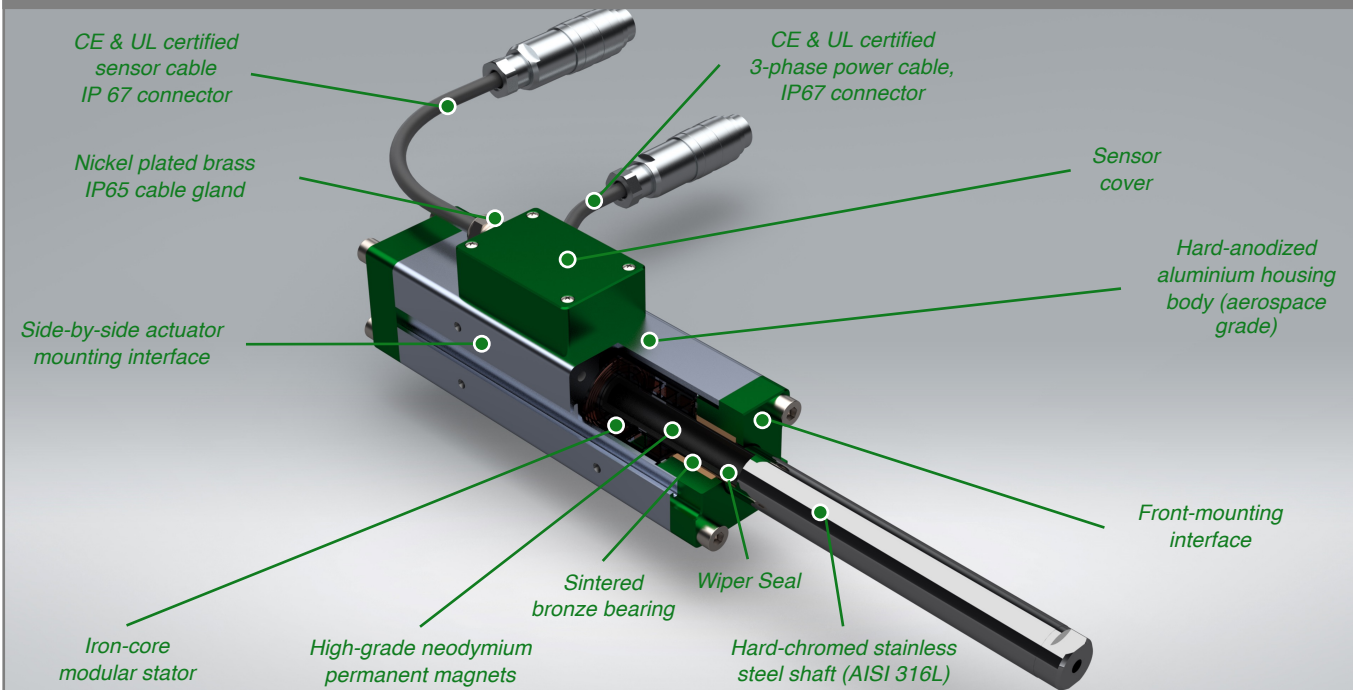
KLM-40-0F2 - TECHNICAL DATA

Continuous force	F_c	[N]	15
Peak Force	F_p	[N]	45
Continuous current	I_c	[A]	2
Peak current	I_p	[A]	6
Phase resistance	R_p	[Ohm]	3.3
Stroke length	S_{max}	[mm]	40, 80, 120, 160, 200, 240
Repeatability		[mm]	± 0.150
Accuracy		[mm]	± 0.5
Acceleration	Acc_{max}	[m/s ²]	22.5
Max. Average Speed	V_{max}	[m/s]	2
Power supply	DC	[V]	24 or 48
Operating temperature	T_{op}	[°C]	-20...+45
Slider mass	M_s	[g]	200 + 1 gram / stroke
Stator body mass	M_T	[g]	825
Rod bearings	Sintered bronze		
Housing Material	Hard-anodized aluminium (aerospace grade)		
Shaft Material	Hard chrome plated stainless steel (AISI 316L)		

Notes:

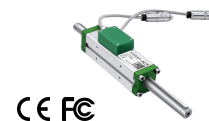
- KLM actuators shall be used with KOMP-ACT's electronic controller KDRV-1-MK

KLM-40-0F2 - PRODUCT DESCRIPTION



KLM-40-0F2 KOMP-ACT LINEAR MOTOR

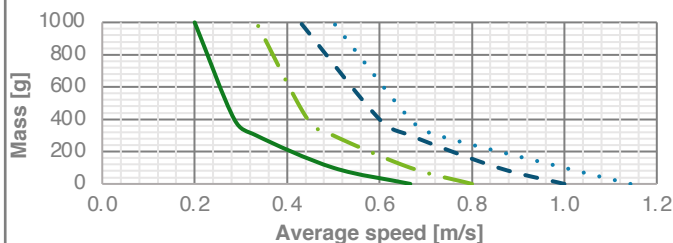
With programmable strokes and automatic calibration



KLM-40-0F2 - OPERATION PERFORMANCE

Actuator speed VS. attached mass: various strokes

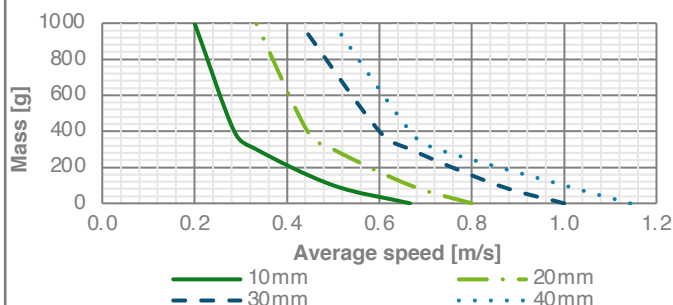
Horizontal Operation



Transfer time in ms for an applied mass

Mass [g]	Stroke [mm]					
	40	80	120	160	200	240
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

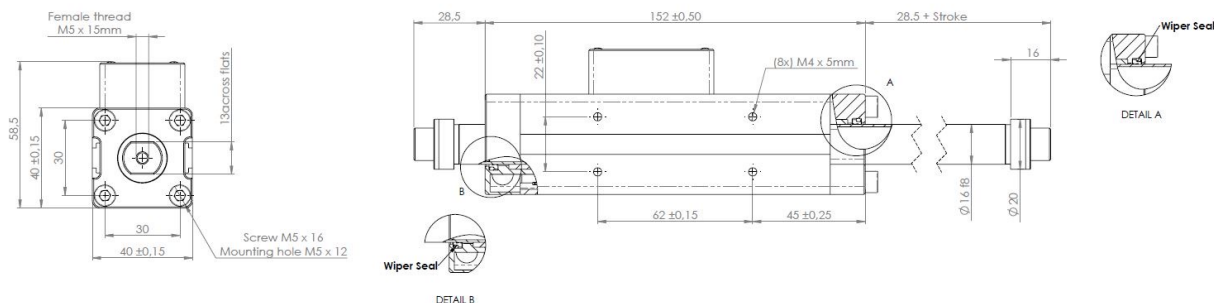
Vertical Operation



Transfer time in ms for an applied mass

Mass [g]	Stroke [mm]					
	40	80	120	160	200	240
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

KLM-40-0F2 - MOUNTING INTERFACE



KLM-40-0F2 - ORDERING DATA

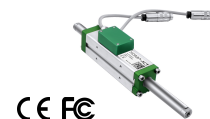
BODY TYPE	STROKE (mm)	ORDERING CODE	CABLE TYPE	LENGTH	ORDERING CODE
KLM-40-0F2	40	KLM-40-0F2-040	Power cable	3 m	KLA-PWR-X-03-HF-A
	80	KLM-40-0F2-080		5 m	KLA-PWR-X-05-HF-A
	120	KLM-40-0F2-120		10 m	KLA-PWR-X-10-HF-A
	160	KLM-40-0F2-160	Sensor cable	3 m	KLA-SNR-X-03-HF-A
	200	KLM-40-0F2-200		5 m	KLA-SNR-X-05-HF-A
	240	KLM-40-0F2-240		10 m	KLA-SNR-X-10-HF-A

Notes:

- Both power and sensors cables are shielded cables which Outer sheath made of PVC, Outer Diameter is 6 mm.
- 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.

KLM-40-0F4 KOMP-ACT LINEAR MOTOR

With programmable strokes and automatic calibration



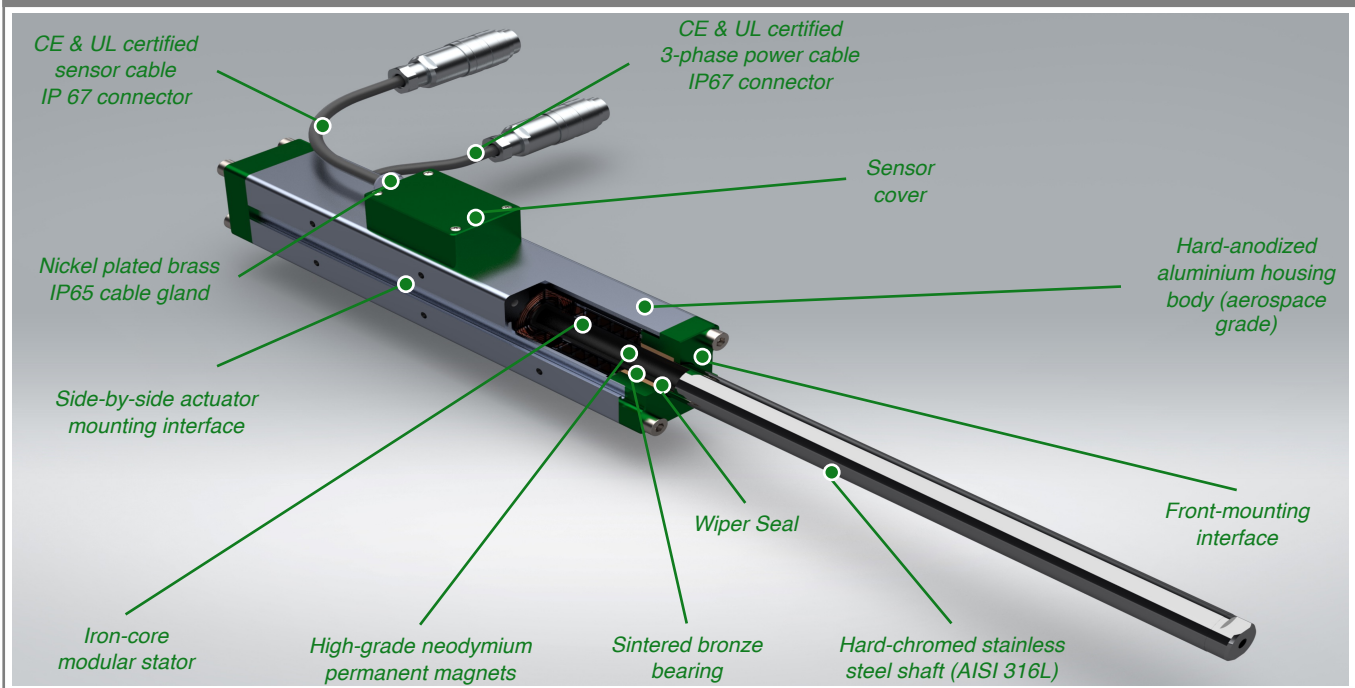
KLM-40-0F4 - TECHNICAL DATA

Continuous force	F_c	[N]	27.6
Peak Force	F_p	[N]	83
Continuous current	I_c	[A]	2
Peak current	I_p	[A]	6
Phase resistance	R_p	[Ohm]	6.6
Stroke length	S_{max}	[mm]	40, 80, 120, 160, 200, 240
Repeatability		[mm]	± 0.150
Accuracy		[mm]	± 0.5
Acceleration	Acc_{max}	[m/s ²]	22.5
Top speed	V_{max}	[m/s]	2
Power supply	DC	[V]	24 or 48
Operating temperature	T_{op}	[°C]	-20...+45
Slider mass	M_s	[g]	240 + 1 gram / stroke
Stator body mass	M_T	[g]	1125
Rod bearings	Sintered bronze		
Housing Material	Hard-anodized aluminium (aerospace grade)		
Shaft Material	Hard chrome plated steel		

Notes:

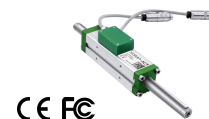
- KLM actuators shall be used with KOMP-ACT's electronic controller KDRV-1-MK

KLM-40-0F4 - PRODUCT DESCRIPTION



KLM-40-0F4 KOMP-ACT LINEAR MOTOR

With programmable strokes and automatic calibration

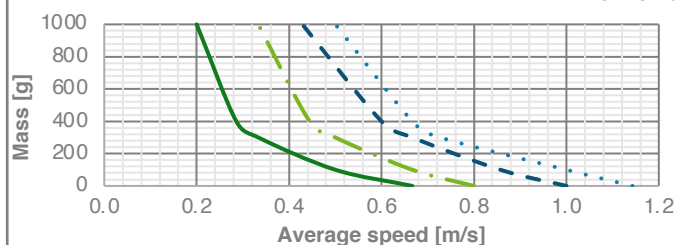


CE FC

KLM-40-0F4 - OPERATION PERFORMANCE

Actuator speed VS. attached mass: various strokes

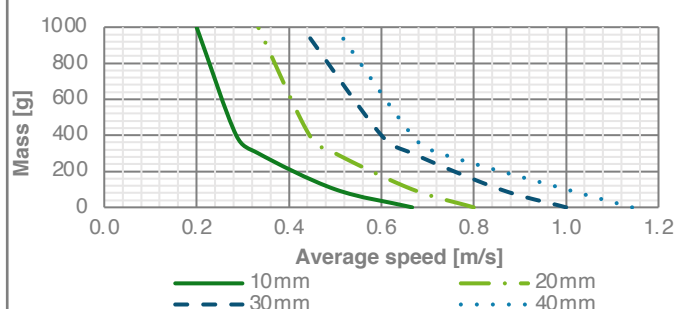
Horizontal Operation



Transfer time in ms for an applied mass

Mass [g]	Stroke [mm]					
	40	80	120	160	200	240
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

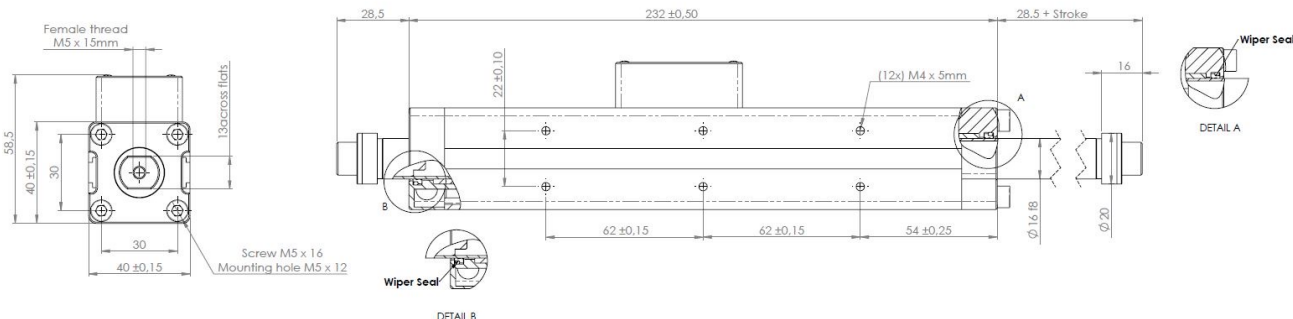
Vertical Operation



Transfer time in ms for an applied mass

Mass [g]	Stroke [mm]					
	40	80	120	160	200	240
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

KLM-40-0F4 - MOUNTING INTERFACE



KLM-40-0F4 - ORDERING DATA

BODY TYPE	STROKE (mm)	ORDERING CODE	CABLE TYPE	LENGTH	ORDERING CODE
KLM-40-0F4	40	KLM-40-0F4-040	Power cable	3 m	KLA-PWR-X-03-HF-A
	80	KLM-40-0F4-080		5 m	KLA-PWR-X-05-HF-A
	120	KLM-40-0F4-120		10 m	KLA-PWR-X-10-HF-A
	160	KLM-40-0F4-160	Sensor cable	3 m	KLA-SNR-X-03-HF-A
	200	KLM-40-0F4-200		5 m	KLA-SNR-X-05-HF-A
	240	KLM-40-0F4-240		10 m	KLA-SNR-X-10-HF-A

Notes:

- Both power and sensors cables are shielded cables which Outer sheath made of PVC, Outer Diameter is 6 mm.
- 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.
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