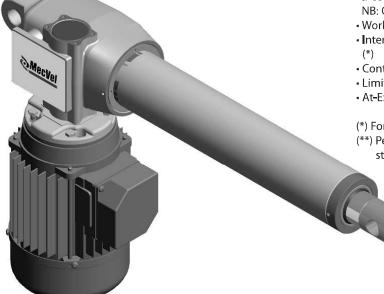


ALI5-Model C€

- Three phase or single phase motor CE
- Worm gearbox (ALI5)
- Acme lead screw or ballscrew (VRS)
- Chrome plated steel push road
- Grease (standard) or oil (VRS continuous duty S1) lubricated on request
- IP65, tested according to rule CEI EN 60529 NB: Only for brake motors Standard IP54, IP65 on request
- Working temperature range -10°C +60°C
- Intermittent duty S3 30% (5min) a +30°C acme lead screw version
- Continuous duty S1 +30°C ballscrew version on request (**)
- Limit switch, potentiometer, encoder on request
- At-Ex | 3 D T4 version (A.C.motor) on request

(*) For any special duty, please contact our technical department (**) Performance are related to ball screw, lifetime of 2000 hours with steady load and without shocks or vibrations



	ALI 5 VRS (Vac 3-phase ballscrew)									
	Fmax (N)	Speed (mm/s)	Version	Motor size	Motor power (KW)	Motor speed (rpm)				
*	4800	93	M45	IEC71	0.55	2800				
*	6000	47	M46	IEC71	0.37	2800				
	7500	23	M47	IEC71	0.37	2800				
	9500	12	M48	IEC71	0.25	1400				
	12000	6	M49	IEC71	0.25	1400				

	ALI5 (Vac 3-phase Acme lead screw)									
	Fmax (N)	Speed (mm/s)	Version	Motor size	Motor power (KW)	Motor speed (rpm)				
*	4300	93	M01	IEC80	1,1	2800				
*	7200	47	M02	IEC80	1,1	2800				
	11000	23	M03	IEC71	0,75	2800				
	18000	12	M04	IEC71	0,37	2800				
	18000	6	M05	IEC71	0,37	1400				
	18000	3	M06	IEC71	0,37	1400				

With single-phase motors type M (see motor choice guideline in paragraph ACCESSORIES) performances are 20% lower than the three-phase motor.

* When speed is more than 40 mm/s and/or strokes longer than 350mm, check STROKE SETUP section; BRAKEMOTOR IS RECOMMENDED

BEFORE OPERATING ACTUATOR MAKE SURE YOU READ AND UNDERSTOOD BASIC OPERATIONAL INSTRUCTIONS SHOWN ON USERMANUALS, AVAILABLE FROM WEBSITE.

THIS DOCUMENT DISPLAYS MOST TYPICAL STANDARD FEATURES AND SETUPS: CONTACT OUR OFFICES FOR MORE.

ACTUATOR SHALL NOT COME TO MECHANICAL STROKE-END, TO AVOID FAILURES.

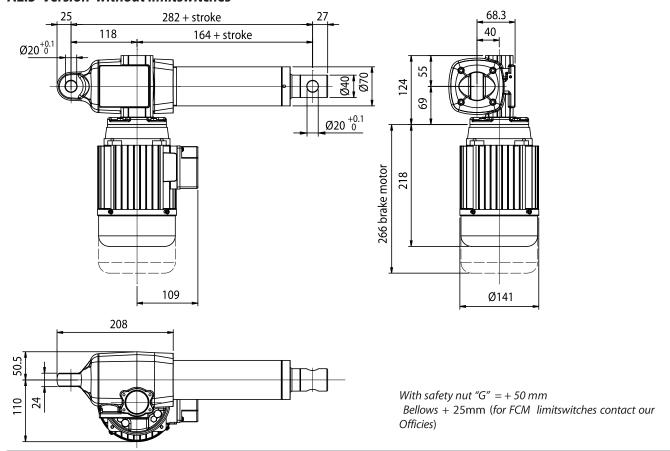
CONSIDER MECVEL'S LIMITSWITCHES (MODEL ALI5-F or ALI5-FCM) OR PUT THEM ON MACHINE/FRAME.

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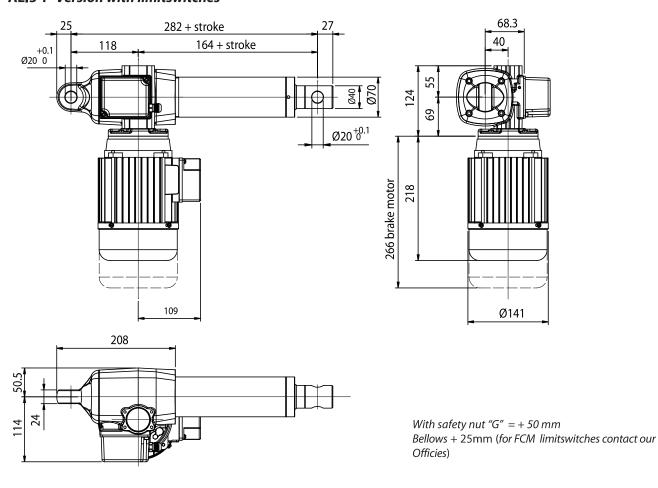
MecVel reserves the right to change products information and/or features without notice; all data contained in this catalogue are purely indicative and not binding for the company.



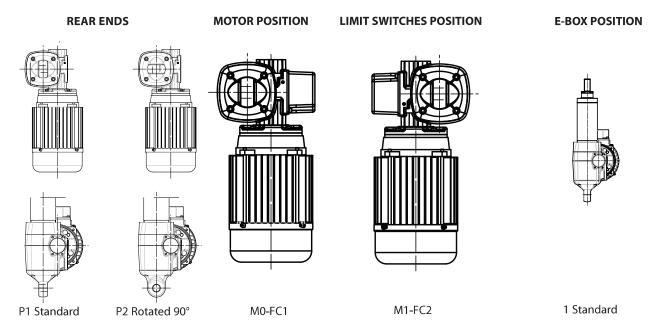
ALI5 Version without limitswitches



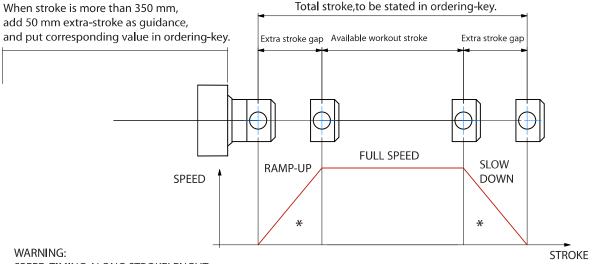
ALI5-F Version with limitswitches







STROKE SETUP: Useful tips for handling stroke and avoid run-on-block collision.

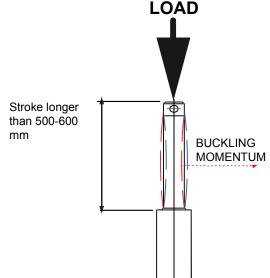


SPEED-TIMING ALONG STROKELENGHT:

ramps are extremely important when speed is > 40mm/s !!! Inverter or PWM drive recommended!

* The more speed raises the more extra stroke has to raise too.

BUCKLING: When stroke is longer than 500mm, BUCKLING can be a risk: please check mounting with our offices and/or see usermanuals.



IMPORTANT:

Long strokes, even if load is low, can generate significant buckling momentums, as sketch slows.

This happens when actuator is in its all-opened position: that's the reason why we recommend 100 mm extra-stroke.

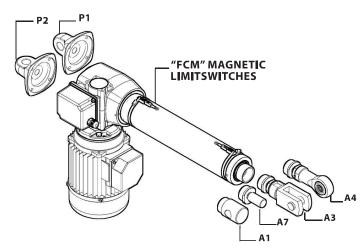
Pushtube will have this 100 mm-portion always inside the overtube, improving guidance against buckling.

For more information on this, contact our office.



ORDERING KEY

ALI5/0300/M01/CA-400-50-T-71-2-0,55/AB/M0-FC1/1/E05/2FC2/P0T01A/P1/A1 MODEL: ALI5 / ALI5-F / ALI5-FCM / ALI5-FCI ALI5-VRS / ALI5-F-VRS ALI5-VRS-FCM / ALI5-VRS-FCI STROKE: es. 300 mm = 0300 VERSION: (pag.41)-Advise: choose among Flanged Version = Rpm Advise reduction ratio and screw pitch (ALI5) **MOTOR:** (pag. ACCESSORIES) Advise only if with motor: version, voltage, type, size, n°pole, power With motorflange only put 0 With special motorflange put: PD **AC MOTOR OPTIONS:** (pag. ACCESSORIES) Motorflange: for motorflange version only advise size - i.e.for IEC71 B14 put 71B14 No motor: leave all following parameters blank Protection Degree: IP65, for selfbrake motor IP54 standard Brake type: for brakemotors only: ES. FECA Options: Advise if needed (ES. AB 2'shaft) MOTOR LIMIT SWITCHES POSITION: M0-FC1 / M1-FC2 None: Leave blank **E-BOX POSITION:** No Motor: Leave blank **ENCODER:** (pag. ACCESSORIES) None: Leave blank **LIMIT SWITCHES: (pag. ACCESSORIES)** None: Leave blank **POTENTIOMETER:** (pag. ACCESSORIES) POT01A (1Kohm) POT10A (10Kohm) None: Leave blank REAR END: **P1** = Eyelet **P2** = Eyelet (90°) FRONT END: A1 = Eyelet (Std pag. 42)A3 = Yoke + ClipA4 = Rod endA7 = M20x1.5 male



Note: "B" dimension variations depending on model

ALI5 / ALI5-F = See pictures ALI5 / ALI5-F stroke > 500 = + 20 mmALI5-FCM stroke < 500 = +40 mmALI5-FCM stroke > 500 = +60 mmALI5-FCI stroke > 500 = +50 mmALI5-FCI stroke < 500 = +30 mm

ALI5-VRS ALI5-F-VRS stroke < 500 = +88 mmALI5-VRS ALI5-F-VRS stroke > 500 = +108 mmALI5-VRS-FCM corsa stroke < 500 = + 128 mm ALI5-VRS-FCM stroke > 500 = + 148 mmALI5-VRS-FCI stroke < 500 = + 118 mmALI5-VRS-FCI stroke > 500 = + 138 mm

with safety nut "G'' = +50 mm (Es. ALI5-F opzione "G'' = +50) / (i.e. ALI5-F "G'' option = +50) antirotation device "L" = + 15 mm

Bellows = +25 (excluding FCM and FCI version, for version FCM and FCI contact MecVel)

