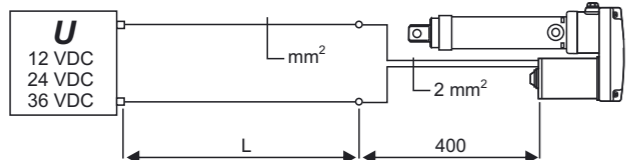
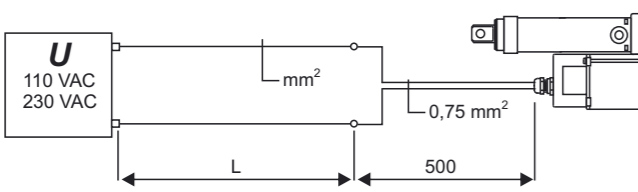


Wire cross section



12 VDC				24 VDC			36 VDC	
Current [A]	mm ²			Current [A]	mm ²		Current [A]	mm ²
	L = 3 m	L = 6 m	L = 10 m		L = 6 m	L = 10 m		L = 10 m
0 – 15	1,5	2,5	4	0 – 10	1,5	1,5	0 – 12	1,5
16 – 20	2,5	4	6	11 – 15	2,5	2,5		
21 – 28	4	6	10					

The tables are based on ambient temperature = 30 °C or less.

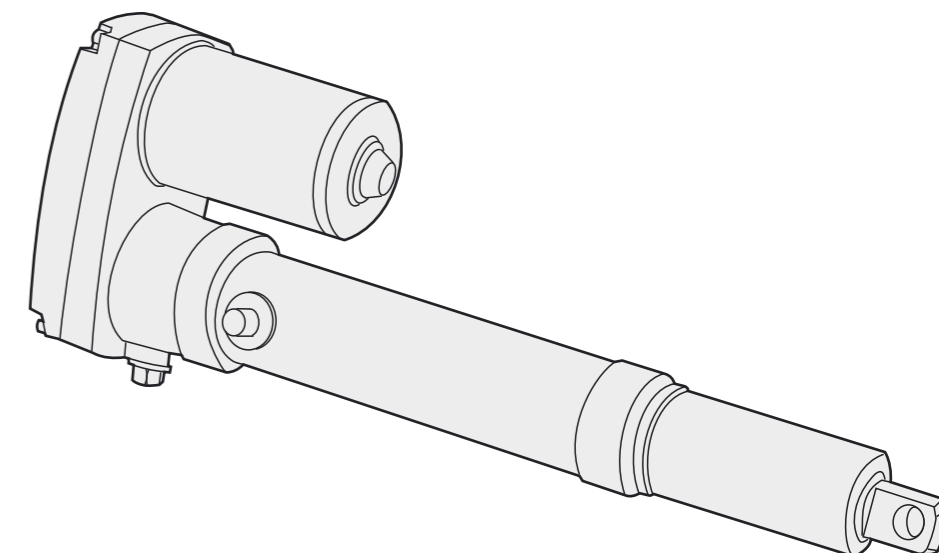


110 / 230 VAC		
Current [A]	L [m]	mm ²
0 – 2	0 – 20	1,5

Technical data

	PPA 12, 24, 36 Vdc	PPA 110, 230 Vac
Motor	DC-motor	AC-motor with auto reset thermal switch
Supply voltage	see label on actuator	
Max. current	see label on actuator	
Max. static load @ fully retracted	13 350 N	
End play max.	1 mm	
Duty cycle	30 % @ 20° C	
Restraining torque	5 Nm	
Ambient temperature	– 25 to + 65° C	
Lubrication	for life	
Protection class	IP44	IP44
Slip clutch	yes	
Brake options*	<ul style="list-style-type: none"> • No brake option (code N–) • Anti coast brake (code SB) • Electrical brake (code EB) 	
Options**	<ul style="list-style-type: none"> • No option (code XX) • Limit switches (code LS) • Potentiometer feedback (code PO) • Hall effect sensor feedback (code HS) • Hall effect sensor feedback + limit switches (code HL) 	

Installation manual for linear actuator Electrak PPA



12 VDC
24 VDC
36 VDC
110 VAC
230 VAC

CAUTION!
Always turn the power off before working on the actuator.

* See position 15 and 16 on the actuator's type designation label, e.g. PPA22–58B65–06SBXXX

** See position 17 and 18 on the actuator's type designation label, e.g. PPA22–58B65–06SBLSX

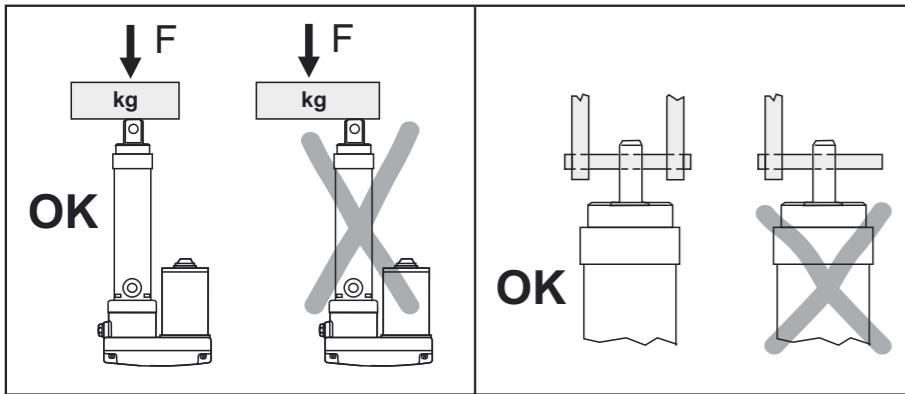
Always install fuse and / or thermal breaker between motor and power supply to protect actuator, wiring and other items.

TOLLO LINEAR AB

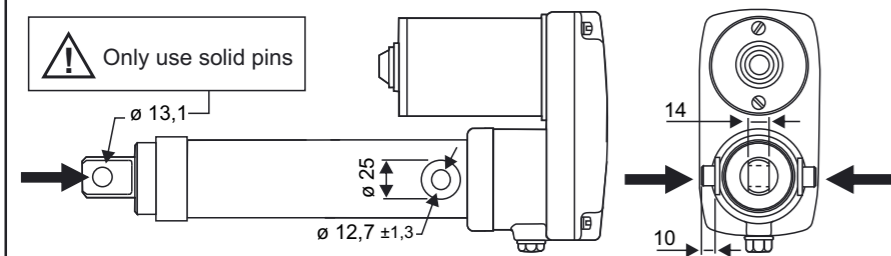
PRINTED IN SWEDEN © 2009 DW110503gb-0946
Printed on recycled paper

Box 9053, SE-291 09 Kristianstad, Sweden
Tel. +46 (0)44-246700 Fax. +46 (0)44-244085

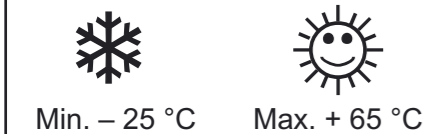
Basic mounting rules



Only install the actuator in these points!

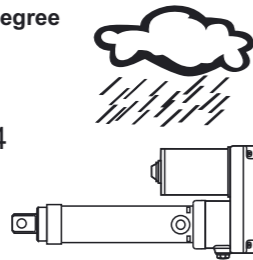


Temperature limits



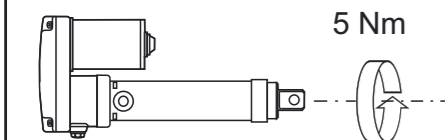
Protection degree

IP44

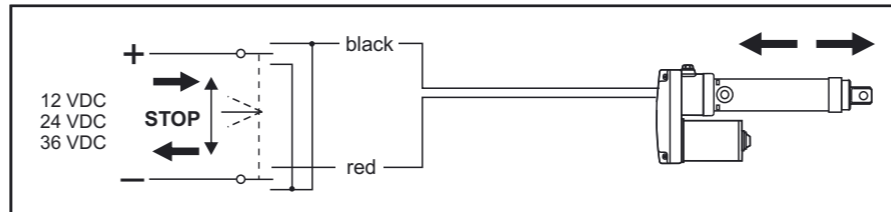


Restraining torque

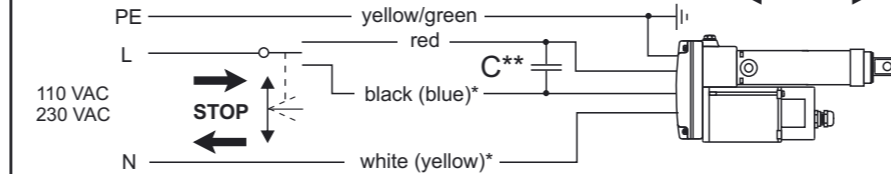
Torque needed to prevent the extension tube from rotating.



Connection of actuator motor



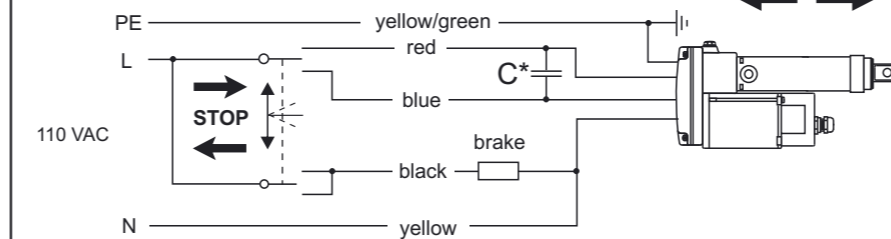
Without electrical brake



* Old(new motor).

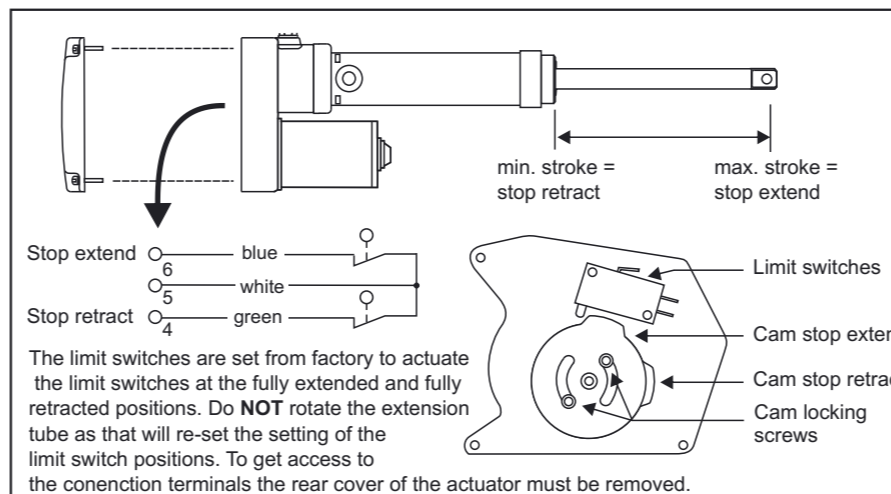
**Capacitor comes installed in the actuator from factory: 110 VAC = 25 μ F, 230 VAC = 6 μ F

With electrical brake

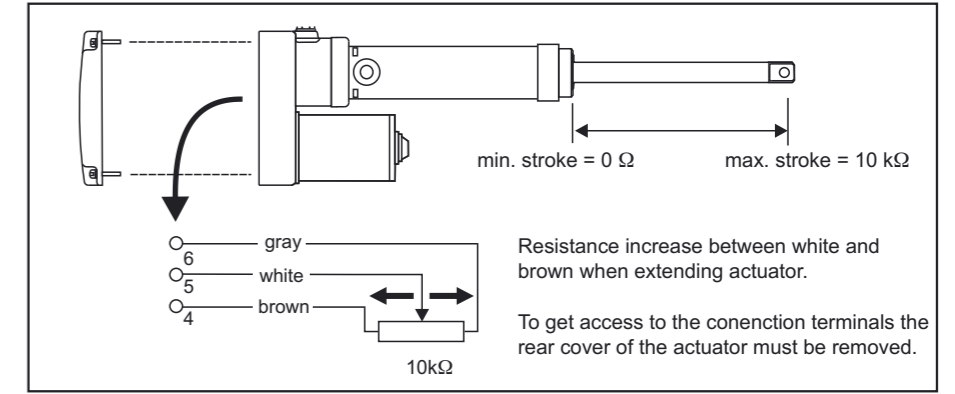


*Capacitor comes installed in the actuator from factory: 110 VAC = 25 μ F

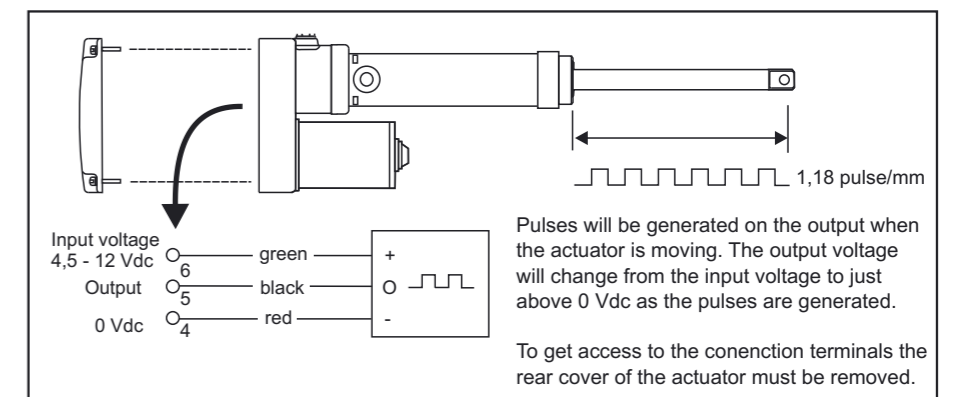
Connection of limit switches (option**)



Connection of potentiometer (option**)



Connection of hall effect sensor (option**)



Connection of limit switches + hall effect sensor (option**)

