



# DMA SERIES + ACCESORIES

Stroke: 102 - 610mm  
3500 - 7000N

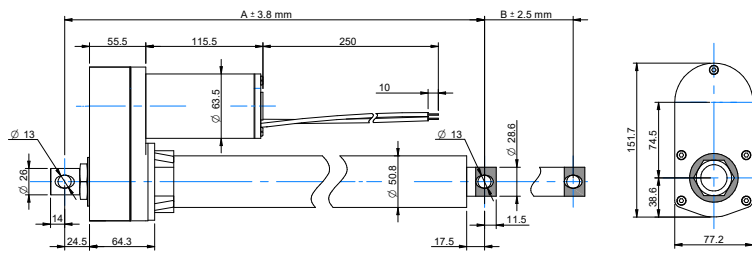
Transmotec sell a broad range of linear actuators in standard and customized configurations. Transmotec is the ideal supplier source especially to instrument and apparatus builders. We keep a high number of actuators in stock for immediate delivery.

## Customizations include:

- ✓ Customized stroke length
- ✓ Customized clevis
- ✓ Customized cabling
- ✓ And more...

# DMA Series / ACME / 102 - 610mm / 3500N

## DRAWING (mm)



## PHOTO



## MODEL NO. DESIGNATION

DMA - VOLTAGE - REDUCTION - A - STROKE - IP65

Example: DMA-12-20-A-305-IP65

## ACTUATOR DATA

	10	20	40
Reduction	10	20	40
Voltage (VDC)	12/24	12/24	12/24
Current at max. dynamic load (A)	18/9	13/6.5	11/5.5
Max. dynamic load (N)	1500	2500	3500
Max. static load (N)	4500	4500	4500
Speed at max. dynamic load (mm/s)	26.7	14.3	7.4
Speed at no load (mm/s)	33.5	16.8	8.4

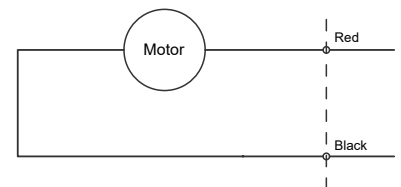
## ACTUATOR STROKE DATA

	102	153	203	305	457	610
Stroke length B (mm)	102	153	203	305	457	610
Retracted length A (mm)	262	313	364	465	668	821
Life time number single strokes	39.000	26.000	20.000	12.000	8.700	6.500
Weight (kg)	4.3	4.6	4.9	5.4	6.2	7.8

## ACTUATOR FEATURES AND STANDARD DATA

	STANDARD	CUSTOMIZATION OPTIONS
Type	Electric linear actuator	
Motor type	Brush PM DC motor	
Cable	Flying wire 250 mm	Length, type and connector
Voltage	12 or 24 VDC	36 or 48 VDC
Screw type	ACME	
Noise level	≤ 70 dB (A)	
Life time	4 million mm total stroke	
Limit switches	N/A	
Overload protection	By clutch	
Direction movement	By reversing voltage polarity	
Stroke tolerance	±2.5 mm	
Duty cycle	25%	
Max. duty operational time	2 min. max. dynamic load	
Protection class	IP65	
Insulation class	F	
Max. motor winding temp.	155 °C	
EMC	EN55014 IEC61000	
Gear box	Metal spur gears	
Gear box material	Aluminum alloy	
Rod and house material	Steel 12L14 STKM11A	
Feedback options	Potentiometer	
Operating and storage temperature	-26°C~+65°C	-50°C~+65°C
Manufacturing quality standards	ISO 9001:2008	
RoHS	Yes	
CE label	Yes	

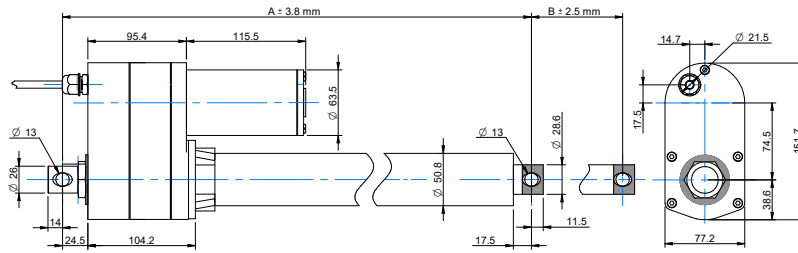
## Motor wiring



	Red	Black
Extend	+	-
Retract	-	+

# DMA Series / ACME / 102 - 610mm / 3500N / potentiometer (POT)

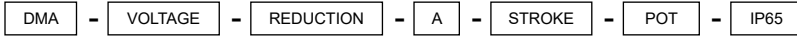
**DRAWING**  
(mm)



**PHOTO**



**MODEL NO. DESIGNATION**



Example: DMA-12-20-A-305-POT-IP65

**ACTUATOR DATA**

Reduction	10	20	40
Voltage (VDC)	12/24	12/24	12/24
Current at max. dynamic load (A)	18/9	13/6.5	11/5.5
Max. dynamic load (N)	1500	2500	3500
Max. static load (N)	4500	4500	4500
Speed at max. dynamic load (mm/s)	26.7	14.3	7.4
Speed at no load (mm/s)	33.5	16.8	8.4

**ACTUATOR STROKE DATA**

Stroke length B (mm)	102	153	203	305	457	610
Retracted length A (mm)	302	353	404	505	708	861
Feedback (Ω/mm)	100	67	50	33	22	17
Life time number single strokes	39.000	26.000	20.000	13.000	8.700	6.500
Weight (kg)	4.3	4.6	4.9	5.4	6.2	7.8

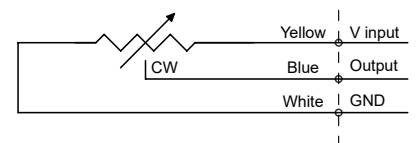
**ACTUATOR FEATURES AND STANDARD DATA**

	STANDARD	CUSTOMIZATION OPTIONS
Type	Electric linear actuator	
Motor type	Brush PM DC motor	
Cable	Flying wire 250 mm	Length, type and connector
Voltage	12 or 24 VDC	36 or 48 VDC
Screw type	ACME	
Noise level	≤ 70 dB (A)	
Life time	4 million mm total stroke	
Limit switches	N/A	
Overload protection	By clutch	
Direction movement	By reversing voltage polarity	
Stroke tolerance	±2.5 mm	
Duty cycle	25%	
Max. duty operational time	2 min. max. dynamic load	
Protection class	IP65	
Insulation class	F	
Max. motor winding temp.	155 °C	
EMC	EN55014 IEC61000	
Gear box	Metal spur gears	
Gear box material	Aluminum alloy	
Rod and house material	Steel 12L14 STKM11A	
Feedback	Potentiometer	
Operating and storage temperature	-26°C~+65°C	-50°C~+65°C
Manufacturing quality standards	ISO 9001:2008	
RoHS	Yes	
CE label	Yes	

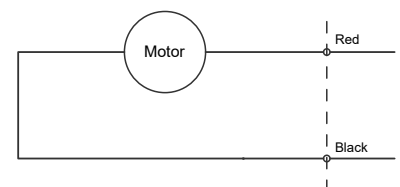
**POTENTIOMETER FEATURES AND DATA**

Type	Wire wound
Resistance	0.3 - 9.7 kΩ
Resolution	0.025%
Resistance tolerance	±5%
Linearity	±0.25%
Cable	3+2 wires flying wire

Potentiometer wiring



Motor wiring



	Red	Black
Extend	+	-
Retract	-	+



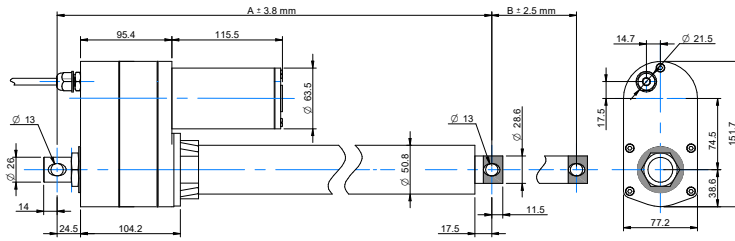






# DMA Series / ball screw / 102 - 610mm / 7000N / adjustable limit switches (LT)

## DRAWING (mm)



## PHOTO



## MODEL NO. DESIGNATION

DMA	-	VOLTAGE	-	REDUCTION	-	B	-	STROKE	-	LT	-	IP65
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Example: DMA-12-20-B-305-LT-IP65

## ACTUATOR DATA

Reduction	5	10	20	30	40
Voltage (VDC)	12/24	12/24	12/24	12/24	12/24
Current at max. dynamic load (A)	28/14	18/9	13/7	13/7	11/5.5
Max. dynamic load (N)	2600	3500	4500	6000	7000
Max. static load (N)	13600	13600	13600	13600	13600
Speed at max. dynamic load (mm/s)	47.2	26.7	14.3	9.8	7.4
Speed at no load (mm/s)	67.1	33.5	16.8	11.2	8.4

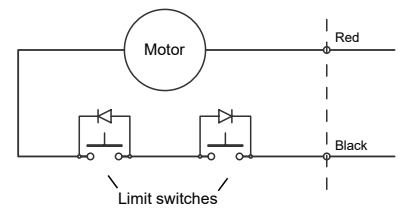
## ACTUATOR STROKE DATA

Stroke length B (mm)	102	153	203	305	457	610
Retracted length A (mm)	399	450	501	680	832	985
Life time number single strokes	39.000	26.000	20.000	13.000	8.700	6.500
Weight (kg)	4.3	4.6	4.9	5.4	6.2	7.8

## ACTUATOR FEATURES AND STANDARD DATA

	STANDARD	CUSTOMIZATION OPTIONS
Type	Electric linear actuator	
Motor type	Brush PM DC motor	
Cable	Flying wire 250 mm	Length, type and connector
Voltage	12 or 24 VDC	36 or 48 VDC
Screw type	Ball screw	
Noise level	≤ 70 dB (A)	
Life time	4 million mm total stroke	
Limit switches	Yes	
Overload protection	By clutch	
Direction movement	By reversing voltage polarity	
Stroke tolerance	± 2.5 mm	
Duty cycle	25%	
Max. duty operational time	2 min. max. dynamic load	
Protection class	IP65	
Insulation class	F	
Max. motor winding temp.	155 °C	
EMC	EN55014 IEC61000	
Gear box	Metal spur gears	
Gear box material	Aluminum alloy	
Rod and house material	Steel 12L14 STKM11A	
Feedback options	Potentiometer	
Operating and storage tem-	-26°C~+65°C	-50°C~+65°C
Manufacturing quality stand-	ISO 9001:2008	
RoHS	Yes	
CE label	Yes	

## Motor wiring

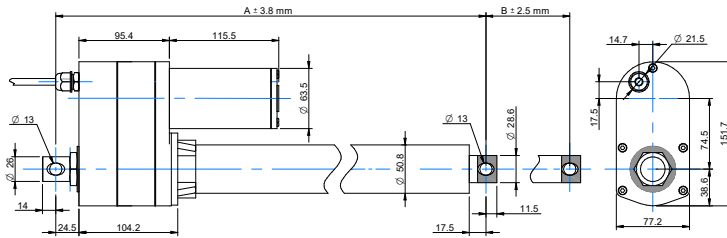


	Red	Black
Extend	+	-
Retract	-	+



# DMA Series / ball screw / 102 - 610mm / 3500N / adjustable limit switch (LT) & potentiometer (POT)

**DRAWING**  
(mm)



**PHOTO**



**MODEL NO. DESIGNATION**

DMA	-	VOLTAGE	-	REDUCTION	-	B	-	STROKE	-	LT	-	POT	-	IP65
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Example: DMA-12-20-B-305-LT-POT-IP65

**ACTUATOR DATA**

Reduction	5	10	20	30	40
Voltage (VDC)	12/24	12/24	12/24	12/24	12/24
Current at max. dynamic load (A)	28/14	18/9	13/7	13/7	11/5.5
Max. dynamic load (N)	2600	3500	4500	6000	7000
Max. static load (N)	13600	13600	13600	13600	13600
Speed at max. dynamic load (mm/s)	47.2	26.7	14.3	9.8	7.4
Speed at no load (mm/s)	67.1	33.5	16.8	11.2	8.4

**ACTUATOR STROKE DATA**

Stroke length B (mm)	102	153	203	305	457	610
Retracted length A (mm)	399	450	501	680	832	985
Feedback (Ω/mm)	100	67	50	33	22	17
Life time number single strokes	39.000	26.000	20.000	13.000	8.700	6.500
Weight (kg)	4.3	4.6	4.9	5.4	6.2	7.8

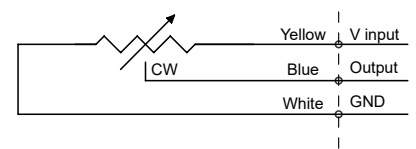
**ACTUATOR FEATURES AND STANDARD DATA**

	STANDARD	CUSTOMIZATION OPTIONS
Type	Electric linear actuator	
Motor type	Brush PM DC motor	
Cable	Flying wire 250 mm	Length, type and connector
Voltage	12 or 24 VDC	36 or 48 VDC
Screw type	Ball screw	
Noise level	≤ 70 dB (A)	
Life time	4 million mm total stroke	
Limit switches	Yes	
Overload protection	By clutch	
Direction movement	By reversing voltage polarity	
Stroke tolerance	± 2.5 mm	
Duty cycle	25%	
Max. duty operational time	2 min. max. dynamic load	
Protection class	IP65	
Insulation class	F	
Max. motor winding temp.	155 °C	
EMC	EN55014 IEC61000	
Gear box	Metal spur gears	
Gear box material	Aluminum alloy	
Rod and house material	Steel 12L14 STKM11A	
Feedback	Potentiometer	
Operating and storage temperature	-26°C~+65°C	-50°C~+65°C
Manufacturing quality standards	ISO 9001:2008	
RoHS	Yes	
CE label	Yes	

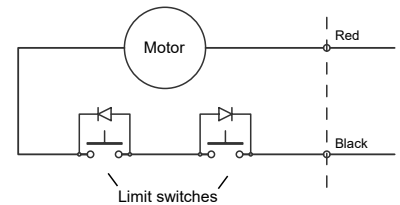
**POTENTIOMETER FEATURES AND DATA**

Type	Wire wound
Resistance	0.3 - 9.7 kΩ
Resolution	0.025%
Resistance tolerance	±5%
Linearity	±0.25%
Cable	3+2 wires 250 mm

Potentiometer wiring



Motor wiring



	Red	Black
Extend	+	-
Retract	-	+