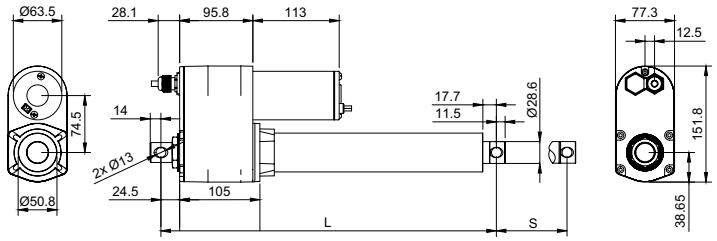
DHA SERIES | 102 - 610 mm | ACME | LIMIT SWITCH | POTENTIOMETER

DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

DHA - VOLTAGE - GEAR RATIO - A - STROKE - LT - POT - IP69K

Example: DHA-12-40-A-102-LT-POT-IP69K

ACCESSORIES



● C = customizations are offered on demand even for smaller quantities. Typical customizations are indicated with a green dot at column end. Please contact us for any customization request.

ACTUATOR DATA			C
Gear ratio		40:1	●
Voltage	V	12 | 24	
No load current	A	1.6 | 0.8	
Current at nominal dynamic load	A	22 | 11	
Nominal dynamic load	N	9000	
Max. static load	N	18000	
Speed at nominal dynamic load	mm/s	10	
Speed at no load	mm/s	14	

ACTUATOR STROKE DATA									C
Stroke length | S	mm	102	153	203	254	305	457	610	●
Retracted length | L	mm	399	450	501	552	680	832	985	
Lifetime number of single strokes		39000	26000	20000	16000	13000	8700	6600	
Weight	kg	5	5.4	5.8	6.1	6.4	7.8	8.8	

ACTUATOR WIRING CONFIGURATION

Wire	Definition	Description
Red	DC power	Connect red wire to “V+” and black wire to “V-” of DC power to extend the actuator. Switch the polarity of DC input to retract it. Input voltage is according to actuator voltage specification.
Black		
Yellow	Vin	Input voltage 70 V max.
Blue	POT output	Potentiometer specification is 10 kΩ, 10 turns, tolerance ±5 %. The potential value can be measured through the POT output and GND wires.
White	GND	Signal GND. Both for POT output and customer signal receiving device

POTENTIOMETER RESOLUTION								
Stroke length | S	mm	102	153	203	254	304	457	610
Resolution	Ω/mm	48	34	28	28	17	12	10

NOTES

1. At nominal dynamic load.

ACTUATOR FEATURES			C
Type		Electric linear actuator	
Motor type		Brushed PM DC motor	
Power cable		AWG14	●
Signal cable		AWG22	●
Cable length	mm	250	●
Voltage	V	12 | 24	●
Screw type		ACME	
Noise level	dB(A)	≤ 70	
Service life		4 million mm total stroke	
Limit switch		Yes	
Limit switch type		Non-adjustable	
Overload protection		By clutch	
Direction movement		By reversing voltage polarity	
Stroke tolerance	%	± 5	
Duty cycle	%	10	
Max. duty operational time1=	s	120	
IP rating		IP69K static	
Insulation class		F	
Max. motor winding temperature	°C	155	
EMC		2014/30/EU | IEC 61000	
Gearbox		Metal spur gears	
Gearbox material		Aluminum alloy	
Rod and house material		Stainless steel	
Feedback		Potentiometer	
Operating and storage temperature	°C	-25 to 65	●
Manufacturing standard		ISO 9001:2015	
Performance tolerances	%	15	

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