



Miniature Linear Actuator

Patented Technology

Model	DC105		
Lead (Nut)	Available in: Self-Locking (not possible to back drive)		
	or		
	Back-drivable		
Typical Applications	Wide ranging applications including in the Automotive, Rail, Marine, Automation, Defence,		
	and Aviation, etc. Typical applications include: Linear traction (forward or backwards) of loads up to 500N - for inaccessible locations or		
	where inadequate space envelope is available		
	Valve and vent control (open and close)		
	Actuation of rotary arms or linear sliders		
	Block or lock action (Fuel Filler Cap Lock and other Locking and Latch mechanisms)		

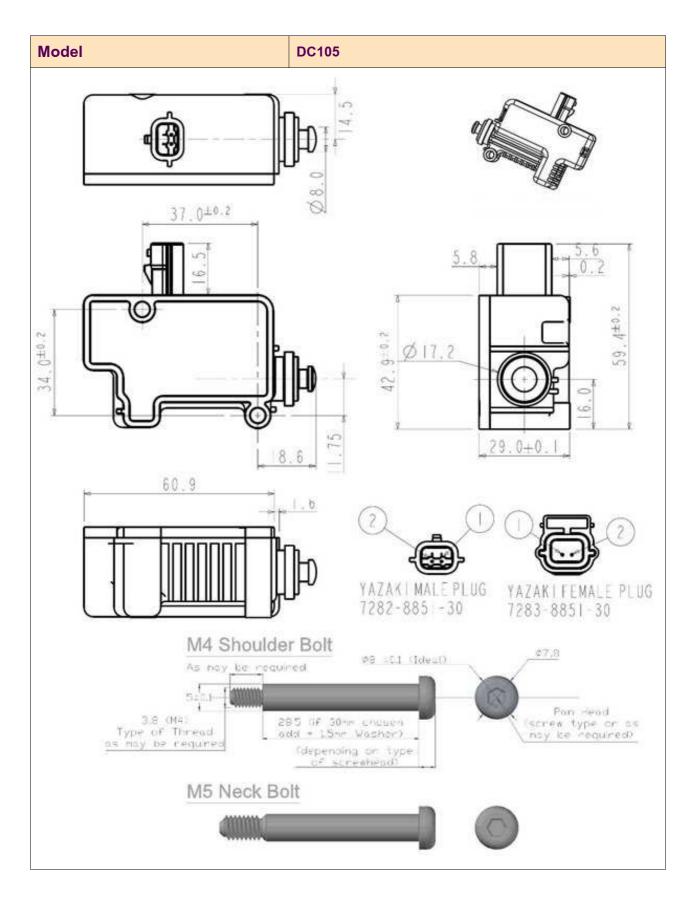
Feature	Value	Notes
Linear Travel	20mm max.	Forward (push) and return (Pull) – available also with longer
		travel (as may be required)
Stall Current	8.3 Amp (12VDC @ 25°C)	
	5.1 Amp (9VDC @ 85°C)	
	14.9 Amp (16VDC @ -40°C)	
Current Draw	3 Amp	@ Maximum Load
Nominal Operating Voltage	12 Volt Direct Current	Also available in 24 Volt DC
Operating Voltage Range	6 to 16 V Direct Current	
Continuous Load	200N	
Impulse	up to 500N	Peak Load @ 12VDC (under nominal conditions)
Operating Speed @ Full Load	0.15mm/millisecond	Driving 200N continuous load over 20mm Travel (under
	(300 millisecond/20mm @ 12VDC)	nominal conditions)
Operating Speed @ No Load	0.09 mm/millisecond	Driving no load over 20mm Travel (at nominal conditions)
	(180 millisecond/20mm @ 12VDC)	
Operating Temperature	-40°C to +120°C	Available also for -50°C to +150°C
Overload Protection	PTC (Thermal)	Cut off at Overload Conditions
Performance Under Load	100,000 cycles	100,000 cycle over 20mm Travel (at nominal conditions):
		Incremental load from 0N to 200N
		Constant Load of 200N
		Toggle Load of up to 500N
Performance @ No Load	1 million cycles	For applications requiring no load such as in a Fuel Filler
		Сар
IP Rating	IP56	Also available to IP67
Motor Driver (MOSFIT) Rating	5A	Direct drive may be possible without H-bridge
Weight	83 grams	Standard

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