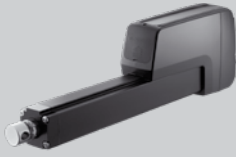








Specifications

	Electrak® HD	Electrak GX DC	Electrak GX AC	
				
Screw type	ball	acme or ball	acme or ball	
Manual operation	yes	optional	optional	
Static load holding	yes	yes	yes	
End-of-stroke protection	internal limit switches	clutch	clutch	
Overload protection	yes	yes	yes	
Available input voltages	[Vdc] [Vac]	12, 24 -	- 1 × 115, 1 × 230, 3 × 400	
Max. static load	[N (lbf)]	18000 (4000)	18000 (4000)	18000 (4000)
Max. dynamic load (Fx)	[N (lbf)]	16000 (3584)	9000 (2000)	9000 (2000)
Max. speed @ no load/max. load	[mm/s (in/s)]	71/58 (2.80/2.28)	61/37 (2.40/1.40)	53/43 (2.10/1.70)
Max. ordering stroke (S) length	[mm] / [in]	1000 / -	- / 24	- / 24
Restraining torque	[Nm (lbf-in)]	0	11.3 (100)	11.3 (100)
Operating temperature limits	[°C (F)]	- 40 – 85 (- 40 – 185)	- 25 – 65 (- 15 – 150)	- 25 – 65 (- 15 – 150)
Full load duty cycle @ 25 °C (77 °F)	[%]	25	25	25
Ingress protection rating - static		IP67 / IP69K	IP66 / IP69K	IP45
Control options	<ul style="list-style-type: none"> • End-of-stroke output • Analog position feedback • Digital position feedback • Low-level switching • Synchronization • CANopen or SAE J1939 CAN bus 	<ul style="list-style-type: none"> • Analog position feedback 	<ul style="list-style-type: none"> • Analog position feedback 	
Page	20	34	44	

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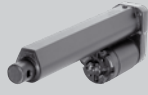

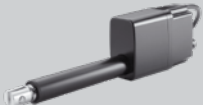
Linear Actuators

	Electrak LA14	Electrak LA24	Electrak PPA	Max Jac	Electrak 050
					
	acme or ball	acme or ball	ball	worm or ball	worm
	optional	optional	no	no	no
	yes	yes	yes	worm yes, ball no	yes
	clutch	clutch	clutch	no	clutch
	yes	yes	yes	no	yes
	12, 24, 36 -	- 1 x 115, 1 x 230, 3 x 400	12, 24, 36 -	12, 24 -	12, 24, 36 -
	18000 (4000)	18000 (4000)	13350 (3000)	2000 (450)	1020 (224)
	6800 (1500)	4500 (1000)	6670 (1500)	800 (180)	510 (112)
	61/37 (2.40/1.40)	53/43 (2.10/1.70)	32/28 (1.26/1.10)	60 / 30 (2.4 / 1.2)	48 / 37 (1.9 / 1.5)
	600 / -	600 / -	- / 36	300 / -	200 / -
	0	0	22 (200)	2 (1.48)	0
	-25 – 65 (- 15 – 150)	-25 – 65 (- 15 – 150)	-25 – 65 (- 15 – 150)	- 40 – 85 (- 40 – 185)	-30 – 80 (-22 – 176)
	25	25	30	25	25
	IP65	IP45	IP54	IP66/IP69K	IP56
	<ul style="list-style-type: none"> • Analog position feedback 	<ul style="list-style-type: none"> • Analog position feedback 	<ul style="list-style-type: none"> • End-of-stroke limit switches • Analog position feedback 	<ul style="list-style-type: none"> • Analog position feedback • Digital position feedback 	<ul style="list-style-type: none"> • End-of-stroke limit switches • Analog position feedback
	56	64	74	82	88

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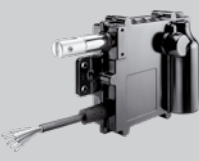







Performance Overview

Specifications				
	Electrak® 1 S	Electrak 1 SP	Electrak MD	
				
Screw type	acme	acme	acme	
Manual operation	no	no	yes	
Static load holding	yes	yes	no (self-locking)	
End-of-stroke protection	internal limit switches	no	internal limit switches	
Overload protection	yes	yes	yes (optional)	
Available input voltages	[Vdc] [Vac]	12, 24 -	12, 24 -	12, 24 -
Max. static load	[N (lbf)]	1300 (300)	1300 (300)	2000 (450)
Max. dynamic load (Fx)	[N (lbf)]	340 (75)	340 (75)	2000 (450)
Speed @ no load/max. load	[mm/s (in/s)]	78/64 (3.1/2.5)	78/64 (3.1/2.5)	52/43.8 (2.04/1.72)
Max. ordering stroke (S) length	[mm] / [in]	- / 8	- / 8	300 / -
Restraining torque	[Nm (lbf-in)]	2.3 (1.7)	2.3 (1.7)	0
Operating temperature limits	[°C (F)]	- 25 – 65 (- 13 – 150)	- 25 – 65 (- 13 – 150)	- 40 – 85 (- 40 – 185)
Full load duty cycle @ 25 °C (77 °F)	[%]	25	25	25
Ingress protection rating - static		IP66	IP66	IP67 / IP69K
Control options	-	<ul style="list-style-type: none"> • Analog position feedback 	<ul style="list-style-type: none"> • End-of-stroke output • Analog position feedback • Digital position feedback • Low-level switching • Synchronization • CAN bus J1939 	
Page		94	100	106

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Linear Actuators

	Electrak Throttle	DMHD	DMD	DMA	LM80H	LM80V
						
	worm	ball	acme or ball	acme or ball	trapezoidal or ball	trapezoidal or ball
	no	yes	optional	optional	no	no
	yes	yes	yes	yes	no	no
	current sensing	internal limit switches	clutch	clutch	spring loaded soft stop	spring loaded soft stop
	yes	yes	yes	yes	no	no
	12, 24 -	12, 24 -	12, 24 -	- 1 × 230	12, 24 -	12, 24 -
	260 (60)	18000 (4000)	18000 (4000)	18000 (4000)	2000 (450)	2000 (450)
	130 (30)	16000 (2248)	6800 (1500)	6800 (1500)	750 (169)	750 (169)
	196/83 (3.7/3.3)	71/58 (2.80/2.28)	61/37 (2.40/1.40)	53/43 (2.10/1.70)	110/73 (4.3/2.9)	110/83 (4.3/3.3)
	- / 2	600 / -	600 / -	600 / -	1500 / -	1500 / -
	0	0	0	0	0	0
	-40 – 125 (-40 – 257)	-40 – 85 (-40 – 185)	-25 – 85 (-15 – 185)	-25 – 65 (-15 – 150)	0 – 40 (32 – 104)	0 – 40 (32 – 104)
	50	25	25	25	15	15
	IP69K, IP67	IP65	IP65	IP45	IP44	IP44
	<ul style="list-style-type: none"> • Analog position feedback • Internal-end-of- stroke limit switches • CAN bus J1939 	<ul style="list-style-type: none"> • End-of-stroke output • Analog position feedback • Digital position feedback • Low-level switching • Synchronization • CAN bus J1939 	<ul style="list-style-type: none"> • Analog position feedback 	<ul style="list-style-type: none"> • Analog position feedback 	-	-
	116	124	136	142	148	154

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