

[illegible]

DLB - VOLTAGE - REDUCTION - A - STROKE - FEEDBACK - IP65



ACTUATOR DATA							C
Reduction		10	20	30	40	50	
Voltage	V	12 24	12 24	12 24	12 24	12 24	
Current at nominal dynamic load	A	4.4 2.4	4.6 2.3	4.3 2.3	4.5 2	4.1 2.2	
Nominal dynamic load	N	500	1000	1500	2000	2500	
Max. static load	N	1500	4500	4500	4500	4500	
Speed at nominal dynamic load	mm/s	19	11	6.8 7.2	5.1 5.7	4.4	

Stroke length B	mm	100	150	200	250	300	
Retracted length A	mm	242	292	342	392	442	
Resistance	kΩ	0.3 - 8.8	0.3 - 9.6	0.3 - 8.9	0.3 - 9.5	0.3 - 9.5	
Feedback	Ω/mm	95	55	46	36	30	
Life time number single strokes		40000	27000	20000	16000	13000	
Weight	kg	1.3	1.4	1.5	1.6	1.7	

Motor wiring

Limit switches

	Red	Black
Extend	+	-
Retract	-	+

Potentiometer wiring

CW

Type	Electric linear actuator		
Motor type	Brush PM DC motor		
Cable type	Flying wire (3+2 wires)		
Cable length	mm	900	
Voltage	V	12 24	
Screw type	ACME		
Screw pitch	mm	4.23	
Noise level	dB(A)	≤ 70	
Life time	4 million mm total stroke		
Limit switches	Yes, integrated non-adjustable		
Direction movement	By reversing voltage polarity		
Stroke tolerance	mm	± 2.5	
Duty cycle	%	25	
Max. duty operational time	s	60 nominal dynamic load	
IP rating	IP66		
Insulation class	F		
Max. motor winding temp.	°C	155	
EMC	EN55014 IEC61000		
Gearbox	Metal spur gears		
Motor pinion gear	Metal SMF5030		
Gearbox material	Aluminum die cast		
Rod and house material	Aluminum 6061		
Feedback	Potentiometer		
Operating and storage temperature	°C	-25 to 65	
Manufacturing quality standards	ISO 9001:2008		
General actuator tolerance	%	± 15	

Potentiometer type	Wire wound
Resistance	kΩ
Resolution	%
Resistance tolerance	%
Linearity	%

Speed VS. Load

Load (N)	10:1 Speed (mm/s)	20:1 Speed (mm/s)	30:1 Speed (mm/s)	50:1 Speed (mm/s)
0	26	14	9	6
500	19	11	7.5	5.5
1000	16	9	6.5	5
1500	14	7.5	5.5	4.5
2000	12	6.5	4.5	4
2500	10	5.5	3.5	3.5
3000	8	4.5	3	3

Load (N)	10:1	20:1	30:1	40:1	50:1
0	1.0	1.0	1.0	1.0	1.0
500	4.5	3.0	2.25	1.8	1.5
1000	8.0	4.5	3.5	2.7	2.0
1500	11.5	6.0	4.75	3.6	2.5
2000	15.0	7.5	6.0	4.5	3.0
2500	18.5	9.0	7.25	5.4	3.5
3000	22.0	10.5	8.5	6.3	4.0

Speed VS. Load

Load (N)	10:1 (mm/s)	20:1 (mm/s)	30:1 (mm/s)	40:1 (mm/s)	50:1 (mm/s)
250	27	15	10	7	6
500	19	12	8	6	5
1000	11	8	6	5	4
1500	8	6	5	4	3
2000	6	5	4	3	2
2500	5	4	3	2	1
3000	4	3	2	1	0