

6.1 BALL SCREW LINEAR ACTUATORS Series UBA with AC 3-PHASE MOTORS
PERFORMANCE with: Duty Cycle Fi = 100 % at 25 °C environment temp.

The following actuators performances are related to ball screw rated lifetime $L_{10} = 2000$ hours, without shock-loads or vibrations. For different lifetime requirements refer to graphs on page 23.

UBA 1				
LINEAR SPEED [mm/s]	DYNAMIC LOAD [N]	RATIO	MOTOR POWER [kW] NUMBER OF POLES SPEED [rpm]	SELF-LOCKING COEFFICIENT
175	550	RV1	0.12 kW 2 poles 2800	0.72
105	900	RN1	0.12 kW 2 poles 2800	0.72
85	800	RV1	0.09 kW 4 poles 1400	0.72
75	1250	RL1	0.12 kW 2 poles 2800	0.72
55	1250	RN1	0.09 kW 4 poles 1400	0.72
40	1750	RL1	0.09 kW 4 poles 1400	0.72

UBA 2				
LINEAR SPEED [mm/s]	DYNAMIC LOAD [N]	RATIO	MOTOR POWER [kW] NUMBER OF POLES SPEED [rpm]	SELF-LOCKING COEFFICIENT
165	1200	RV1	0.25 kW 2 poles 2800	0.71
110	1800	RN1	0.25 kW 2 poles 2800	0.71
80	2300	RL1	0.25 kW 2 poles 2800	0.71
55	2450	RN1	0.18 kW 4 poles 1400	0.71
40	2900	RL1	0.18 kW 4 poles 1400	0.71

UBA 3				
LINEAR SPEED [mm/s]	DYNAMIC LOAD [N]	RATIO	MOTOR POWER [kW] NUMBER OF POLES SPEED [rpm]	SELF-LOCKING COEFFICIENT
225	1800	RV1	0.55 kW 2 poles 2800	0.70
110	2300	RV1	0.37 kW 4 poles 1400	0.70
80	2600	RL1	0.55 kW 2 poles 2800	0.70
60	2800	RN1	0.37 kW 4 poles 1400	0.70
40	3200	RL1	0.37 kW 4 poles 1400	0.70

UBA 4				
LINEAR SPEED [mm/s]	DYNAMIC LOAD [N]	RATIO	MOTOR POWER [kW] NUMBER OF POLES SPEED [rpm]	SELF-LOCKING COEFFICIENT
265	3000	RV1	1.1 kW 2 poles 2800	0.70
135	3600	RV1	0.75 kW 4 poles 1400	0.70
96	4000	RL1	1.1 kW 2 poles 2800	0.70
70	4500	RN1	0.75 kW 4 poles 1400	0.70
48	5000	RL1	0.75 kW 4 poles 1400	0.70

6.1 BALL SCREW LINEAR ACTUATORS Series UBA with AC 1-PHASE MOTORS
PERFORMANCE with: Duty Cycle Fi = 100 % at 25 °C environment temp.

The following actuators performances are related to ball screw rated lifetime $L_{10} = 2000$ hours, without shock-loads or vibrations. For different lifetime requirements refer to graphs on page 23.

UBA 1				
LINEAR SPEED [mm/s]	DYNAMIC LOAD [N]	RATIO	MOTOR POWER [kW] NUMBER OF POLES SPEED [rpm]	SELF-LOCKING COEFFICIENT
175	500	RV1	0.12 kW 2 poles 2800	0.72
105	800	RN1	0.12 kW 2 poles 2800	0.72
85	750	RV1	0.09 kW 4 poles 1400	0.72
75	1150	RL1	0.12 kW 2 poles 2800	0.72
55	1250	RN1	0.09 kW 4 poles 1400	0.72
40	1750	RL1	0.09 kW 4 poles 1400	0.72

UBA 2				
LINEAR SPEED [mm/s]	DYNAMIC LOAD [N]	RATIO	MOTOR POWER [kW] NUMBER OF POLES SPEED [rpm]	SELF-LOCKING COEFFICIENT
165	1100	RV1	0.25 kW 2 poles 2800	0.71
110	1600	RN1	0.25 kW 2 poles 2800	0.71
80	2150	RL1	0.25 kW 2 poles 2800	0.71
55	2400	RN1	0.18 kW 4 poles 1400	0.71
40	2900	RL1	0.18 kW 4 poles 1400	0.71

UBA 3				
LINEAR SPEED [mm/s]	DYNAMIC LOAD [N]	RATIO	MOTOR POWER [kW] POLES SPEED [rpm]	SELF-LOCKING COEFFICIENT
225	1800	RV1	0.55 kW 2 poles 2800	0.70
110	2300	RV1	0.37 kW 4 poles 1400	0.70
80	2600	RL1	0.55 kW 2 poles 2800	0.70
60	2800	RN1	0.37 kW 4 poles 1400	0.70
40	3200	RL1	0.37 kW 4 poles 1400	0.70

UBA 4				
LINEAR SPEED [mm/s]	DYNAMIC LOAD [N]	RATIO	MOTOR POWER [kW] NUMBER OF POLES SPEED [rpm]	SELF-LOCKING COEFFICIENT
265	2900	RV1	1.1 kW 2 poles 2800	0.70
135	3600	RV1	0.75 kW 4 poles 1400	0.70
96	4000	RL1	1.1 kW 2 poles 2800	0.70
70	4500	RN1	0.75 kW 4 poles 1400	0.70
48	5000	RL1	0.75 kW 4 poles 1400	0.70

6.1 BALL SCREW LINEAR ACTUATORS Series UBA with DC MOTORS
PERFORMANCE with: Duty Cycle Fi = 100 % at 25 °C environment temp.

The following actuators performances are related to ball screw rated lifetime $L_{10} = 2000$ hours, without shock-loads or vibrations. For different lifetime requirements refer to graphs on page 23.

UBA 1 with DC motor 24 V 8.4 A 150 W 3000 rpm				
LINEAR SPEED [mm/s]	DYNAMIC LOAD [N]	RATIO	RUNNING CURRENT [A]	SELF-LOCKING COEFFICIENT
185	650	RV1	9	0.72
115	1100	RN1	9.5	0.72
80	1400	RL1	8.5	0.72

UBA 2 with DC motor 24 V 15.6 A 300 W 3000 rpm				
LINEAR SPEED [mm/s]	DYNAMIC LOAD [N]	RATIO	RUNNING CURRENT [A]	SELF-LOCKING COEFFICIENT
180	1400	RV1	17.5	0.71
120	2000	RN1	16.5	0.71
90	2250	RL1	14	0.71

UBA 3 with DC motor 24 V 25 A 500 W 3000 rpm				
LINEAR SPEED [mm/s]	DYNAMIC LOAD [N]	RATIO	RUNNING CURRENT [A]	SELF-LOCKING COEFFICIENT
240	1600	RV1	26	0.70
125	2200	RN1	20	0.70
85	2500	RL1	15.5 NOTE (1)	0.70

NOTE (1): Performance achievable with DC motor 24 V 15.6 A 300 Watts 3000 r/min.

UBA 4 with DC motor 90 V 10.6 A 750 W 3000 rpm				
LINEAR SPEED [mm/s]	DYNAMIC LOAD [N]	RATIO	RUNNING CURRENT [A]	SELF-LOCKING COEFFICIENT
290	1900	RV1	11	0.70
150	3400	RN1	11	0.70
100	4000	RL1	8.5	0.70