

4.1 ACME SCREW LINEAR ACTUATORS Series UAL with AC 3-PHASE MOTORS
PERFORMANCE with: Duty Cycle Fi = 30 % over 10 min. at 25 °C environment

UAL 1				
LINEAR SPEED [mm/s]	DYNAMIC LOAD [N]	RATIO	MOTOR POWER [kW] NUMBER OF POLES SPEED [rpm]	SELF-LOCKING COEFFICIENT
280	300	RV2	0.12 kW 2 poles 2800	0.51
170	450	RN2	0.12 kW 2 poles 2800	0.51
120	600	RL2	0.12 kW 2 poles 2800	0.51
105	600	RV1	0.12 kW 2 poles 2800	0.32
85	600	RN2	0.09 kW 4 poles 1400	0.51
60	860	RL2	0.09 kW 4 poles 1400	0.51
50	800	RV1	0.09 kW 4 poles 1400	0.32
45	1200	RL1	0.12 kW 2 poles 2800	0.32
32	1200	RN1	0.09 kW 4 poles 1400	0.32
23	1600	RL1	0.09 kW 4 poles 1400	0.32

UAL 2				
LINEAR SPEED [mm/s]	DYNAMIC LOAD [N]	RATIO	MOTOR POWER [kW] NUMBER OF POLES SPEED [rpm]	SELF-LOCKING COEFFICIENT
265	650	RV2	0.25 kW 2 poles 2800	0.48
175	950	RN2	0.25 kW 2 poles 2800	0.48
130	1200	RL2	0.25 kW 2 poles 2800	0.48
87	1300	RN2	0.18 kW 4 poles 1400	0.48
65	1950	RL1	0.25 kW 2 poles 2800	0.35
43	2000	RN1	0.18 kW 4 poles 1400	0.35
32	2500	RL1	0.18 kW 4 poles 1400	0.35

UAL 3				
LINEAR SPEED [mm/s]	DYNAMIC LOAD [N]	RATIO	MOTOR POWER [kW] NUMBER OF POLES SPEED [rpm]	SELF-LOCKING COEFFICIENT
360	1000	RV2	0.55 kW 2 poles 2800	0.46
180	1850	RN2	0.55 kW 2 poles 2800	0.46
130	2600	RL2	0.55 kW 2 poles 2800	0.46
90	3000	RN1	0.55 kW 2 poles 2800	0.32
64	4100	RL1	0.55 kW 2 poles 2800	0.32
46	3650	RN1	0.37 kW 4 poles 1400	0.32
32	5100	RL1	0.37 kW 4 poles 1400	0.32

UAL 4				
LINEAR SPEED [mm/s]	DYNAMIC LOAD [N]	RATIO	MOTOR POWER [kW] NUMBER OF POLES SPEED [rpm]	SELF-LOCKING COEFFICIENT
450	1700	RV2	1.1 kW 2 poles 2800	0.46
230	3000	RN2	1.1 kW 2 poles 2800	0.46
160	4300	RL2	1.1 kW 2 poles 2800	0.46
115	5000	RN1	1.1 kW 2 poles 2800	0.32
80	6800	RL1	1.1 kW 2 poles 2800	0.32
58	6200	RN1	0.75 kW 4 poles 1400	0.32
40	8500	RL1	0.75 kW 4 poles 1400	0.32

4.1 ACME SCREW LINEAR ACTUATORS Series UAL with AC 1-PHASE MOTORS
PERFORMANCE with: Duty Cycle Fi = 30 % over 10 min. at 25 °C environment

UAL 1				
LINEAR SPEED [mm/s]	DYNAMIC LOAD [N]	RATIO	MOTOR POWER [kW] NUMBER OF POLES SPEED [rpm]	SELF-LOCKING COEFFICIENT
265	300	RV2	0.12 kW 2 poles 2800	0.51
165	450	RN2	0.12 kW 2 poles 2800	0.51
115	600	RL2	0.12 kW 2 poles 2800	0.51
100	600	RV1	0.12 kW 2 poles 2800	0.32
85	600	RN2	0.09 kW 4 poles 1400	0.51
60	860	RL2	0.09 kW 4 poles 1400	0.51
50	800	RV1	0.09 kW 4 poles 1400	0.32
45	1200	RL1	0.12 kW 2 poles 2800	0.32
32	1200	RN1	0.09 kW 4 poles 1400	0.32
23	1600	RL1	0.09 kW 4 poles 1400	0.32

UAL 2				
LINEAR SPEED [mm/s]	DYNAMIC LOAD [N]	RATIO	MOTOR POWER [kW] NUMBER OF POLES SPEED [rpm]	SELF-LOCKING COEFFICIENT
265	600	RV2	0.25 kW 2 poles 2800	0.48
175	850	RN2	0.25 kW 2 poles 2800	0.48
130	1100	RL2	0.25 kW 2 poles 2800	0.48
87	1200	RN2	0.18 kW 4 poles 1400	0.48
65	1800	RL1	0.25 kW 2 poles 2800	0.35
43	2000	RN1	0.18 kW 4 poles 1400	0.35
32	2500	RL1	0.18 kW 4 poles 1400	0.35

UAL 3				
LINEAR SPEED [mm/s]	DYNAMIC LOAD [N]	RATIO	MOTOR POWER [kW] NUMBER OF POLES SPEED [rpm]	SELF-LOCKING COEFFICIENT
360	900	RV2	0.55 kW 2 poles 2800	0.46
180	1650	RN2	0.55 kW 2 poles 2800	0.46
130	2350	RL2	0.55 kW 2 poles 2800	0.46
90	2700	RN1	0.55 kW 2 poles 2800	0.32
64	3700	RL1	0.55 kW 2 poles 2800	0.32
46	3300	RN1	0.37 kW 4 poles 1400	0.32
32	4600	RL1	0.37 kW 4 poles 1400	0.32

UAL 4				
LINEAR SPEED [mm/s]	DYNAMIC LOAD [N]	RATIO	MOTOR POWER [kW] NUMBER OF POLES SPEED [rpm]	SELF-LOCKING COEFFICIENT
450	1550	RV2	1.1 kW 2 poles 2800	0.46
230	2700	RN2	1.1 kW 2 poles 2800	0.46
160	3900	RL2	1.1 kW 2 poles 2800	0.46
115	4500	RN1	1.1 kW 2 poles 2800	0.32
80	6100	RL1	1.1 kW 2 poles 2800	0.32
58	5600	RN1	0.75 kW 4 poles 1400	0.32
40	7650	RL1	0.75 kW 4 poles 1400	0.32

4.1 ACME SCREW LINEAR ACTUATORS Series UAL with DC MOTORS
PERFORMANCE with: Duty Cycle Fi = 30 % over 10 min. at 25 °C environment

UAL 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
300	350	RV2	14	0.51
185	500	RN2	13	0.51
130	700	RL2	12	0.51
112	700	RV1	14	0.32
70	1000	RN1	12	0.32
50	1400	RL1	12	0.32

UAL 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
285	700	RV2	25	0.48
185	1050	RN2	24	0.48
140	1350	RL2	24	0.48
93	1700	RN1	26	0.35
70	2200	RL1	25	0.35

UAL 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
384	900	RV2	41	0.46
200	1600	RN2	38	0.46
137	2300	RL2	38	0.46
100	2600	RN1	41	0.32
68	3600	RL1	38	0.32

UAL 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
480	1100	RV2	18	0.46
250	2000	RN2	17	0.46
170	2750	RL2	16	0.46
125	3250	RN1	18	0.32
85	4450	RL1	17	0.32