

D.C. Motors

Series G 42 · Motortypes G 42x25 and G 42x40

Standard programme

Motors with nominal voltages 12 V and 24 V represent our standard motor programme and should preferably be used.

Load characteristics

The curves represent an example of the possible winding designs – and of those featured under the „standard range“ – of the G 42x25 and G 42x40 series.

Designation	Motor G 42x25			
	12	24	40	V
Nominal voltage	12	24	40	V
Winding	8.43.0355	8.88.025	8.140.020	Nr.
Nominal speed	3450	3600	3700	1/min
No load speed	4350	4200	4400	1/min
Nominal torque	3,9	3,8	3,9	Ncm
Nominal current	≤1,85	≤0,86	≤0,55	A
No load current	≤0,34	≤0,170	≤0,110	A
Rated output power	14,1	14,3	15,1	W
Starting torque	19	20	21,6	Ncm
Efficiency	63,5	69	68,6	%
Moment of inertia	71	71	71	gcm ²
Weight	390	390	390	g

Designation	Motor G 42x40			
	12	24	40	V
Nominal voltage	12	24	40	V
Winding	8.26.045	8.61.030	8.100.0236	Nr.
Nominal speed	3750	3100	3400	1/min
No load speed	4550	3800	3950	1/min
Nominal torque	5,3	5,7	5,7	Ncm
Nominal current	≤2,65	≤1,22	≤0,8	A
No load current	≤0,440	≤0,175	≤0,12	A
Rated output power	20,8	18,5	20,3	W
Starting torque	31,9	33	35,6	Ncm
Efficiency	65,4	63	63,5	%
Moment of inertia	110	110	110	gcm ²
Weight	490	490	490	g

Shaft load capacity

Axial load 25 N max.

Radial load applied 12 mm from mounting surface 25 N max.

All output data are referred to an ambient temperature of 20°C.