

Hybrid Stepper Motors Hybride Schrittmotoren

NEMA format 17 / NEMA Format (42x42 mm)

42BYGH

General Specifications / allgemeine Spezifikationen:

Step Accuracy Schrittgenauigkeit ± 5%

Insulation Resistance Isolationswiderstand $100M\Omega$ min. 500V DC

Dielectric Strength Spannungsfestigkeit 500V AC/1 min.

Step Angle..... Schrittwinkel..... 0.9°

Electrical Specifications / elektrische Spezifikationen:

Model		Motor	Holding	Lead	Rated	Phase	Phase	Rotor	Detent	Shaft	Motor
		Length	Torque	Wire	Current	Resistance	Inductance	Inertia	Torque	\emptyset d	Weight
Modell		Motor	Halte-	Anzahl	Nenn-	Widerstand	Induktivität	Masse-	Rast-	Achs-	Motor
		Länge	kraft	Litzen	strom	Phase	Phase	trägheit	moment	\emptyset d	Gewicht
		(mm)	(N·cm)		(A)	(Ω)	(mH)	(g·cm ²)	(N·cm)	(mm)	(kg)
42BYGH2100A	В	26	12	4	0.8	7.9	7.5	21	1.37	5	0.17
42BYGH2100A-02	В	26	11	4	0.5	10.3	11.5	21	1.37	5	0.17
42BYGH2100A1A	В	30	28	4	0.8	14.6	22.1	26	1.57	5	0.19
42BYGH2100B	В	34.1	14	4	1.0	4.7	4.9	34	1.96	5	0.22
42BYGH2100B-01	В	34.1	20	4	1.0	7.0	9.6	34	1.96	5	0.22
42BYGH2100C	В	40.1	28	4	1.0	4.6	8.7	54	2.16	5	0.28
42BYGH2100C-01A	В	40.1	34	4	0.8	17.6	41	54	2.16	5	0.28
42BYGH4100C	U	40.1	25	6	0.4	30	30	54	2.16	5	0.28
	BS		35		0.28	60	120				0.28
42BYGH2100D	В	44	34	4	1.0	6.3	9.8	61	2.45	5	0.32

Step Angle...... Schrittwinkel...... 1.8°

Electrical Specifications / elektrische Spezifikationen:

Model		Motor	Holding	Lead	Rated	Phase	Phase	Rotor	Detent	Shaft	Motor
		Length	Torque	Wire	Current	Resistance	Inductance	Inertia	Torque	\emptyset d	Weight
Modell		Motor	Halte-	Anzahl	Nenn-	Widerstand	Induktivität	Masse-	Rast-	Achs-	Motor
		Länge	kraft	Litzen	strom	Phase	Phase	trägheit	moment	\emptyset d	Gewicht
		(mm)	(N·cm)		(A)	(Ω)	(mH)	(g·cm ²)	(N·cm)	(mm)	(kg)
42BYGH250A	В	32	24	4	1.4	2.2	2.48	25	1.81	5	0.19
42BYGH450A	J	32	15	6	1.0	3.4	2.3	25	1.81	5	0.19
	BS		21		0.7	6.8	9.2				
42BYGH250B	В	34	12	4	0.4	6.0	6.5	34	1.96	5	0.22
42BYGH250B-06	В	34	24	4	0.8	5.5	7.17	34	1.96	5	0.22
42BYGH450B-01	U	2.4	17	6	0.28	44	30	34	1.96	5	0.22
	BS	34	24		0.2	88	120				
42BYGH450B-02	J	34	20	6	0.8	7.2	4.4	34	1.96	5	0.22
	BS	34	28		0.6	14.4	17.6				
42BYGH250C	В	40	39	4	0.8	15.6	24.5	54	2.16	5	0.28

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Model			Holding Torque	Lead Wire	Rated	Phase Resistance	Phase Inductance	Rotor Inertia	Detent Torque	Shaft ∅ d	Motor Weight
		Motor	Halte-	Anzahl		Widerstand/		Masse-	Rast-	Achs-	Motor
Modell		Länge	kraft	Litzen	strom	Phase	Phase		moment		Gewicht
		(mm)	(N·cm)		(A)	(Ω)	(mH)	(g·cm ²)	(N⋅cm)	(mm)	(kg)
42BYGH250C-04	В	40	40	4	1.6	2.32	3.87	54	2.16	5	0.28
42BYGH250C-06	В	40	43	4	1.0	8.55	13	54	2.16	5	0.28
42BYGH250C-08	В	40	39	4	1.0	5.72	11.1	54	2.16	5	0.28
42BYGH450C	U BS	40	28 39	6	0.4 0.28	30 60	24 96	54	2.16	5	0.28
42BYGH450C-08	U BS	40	28 39	6	0.8	5.4 10.8	4.38 17.5	54	2.16	5	0.28
42BYGH450C-99*	В	40	27	4	1.8	1.1	1.85	57	2.16	5	0.3
42BYGH250D-01	В	44	49	4	1.0	5.2	8.6	61	2.45	5	0.32
42BYGH250D-02	В	44	39	4	0.5	27	51	61	2.45	5	0.32
42BYGH250D-08	В	44	22	4	1.5	0.68	0.85	61	2.45	5	0.32
42BYGH250D-09	В	44	39	4	1.2	3.5	4.9	61	2.45	5	0.32
42BYGH450D	U BS	44	31 44	6	0.5 0.35	18.5 37	18.5 74	61	2.45	5	0.32
42BYGH450D-20	U BS	44	33 47	6	1.0 0.7	5.0 10	5.4 21.6	61	2.45	5	0.32
42BYGH450D-21	U BS	46.5	39 55	6	0.8	8.9 17.8	8.5 34	68	2.65	5	0.33
42BYGH450D-22	U BS	46.5	38 53	6	1.0	7.0 14	5.6 22.4	68	2.65	5	0.33
42BYGH250E-06	В	48	40	4	0.8	6.35	8.9	68	2.75	5	0.35
42BYGH250E-07	В	48	40	4	0.8	6.35	8.9	68	2.75	5	0.35
42BYGH450E-01	U BS	48	37 52	6	0.4	32 64	27 108	68	2.75	5	0.35
42BYGH450E-14	U BS	48	36 51	6	0.8	7.5 15	6.4 25.6	68	2.75	5	0.35
42BYGH450E-17	U	48	46 65	6	1.2	5.0	4.75 19	68	2.75	5	0.35
	U		34		1.0	4.6	4				
42BYGH450E-24	BS	48	47	8	0.7	9.2	16	82	3	5	0.35
	BP		47		1.4	2.3	4				
42BYGH250F	В	60	49	4	0.5	23	35.7	102	3.63	5	0.46
42BYGH450F	U BS	60	48 68	6	0.5 0.35	24 48	25 100	102	3.63	5	0.46
42BYGH450FA	U BS	60	48 68	6	0.5 0.35	24 48	25 100	102	3.63	5	0.46

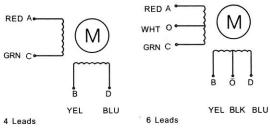
- U = Unipolar Connection / unipolarer Anschluss
- B = Bipolar Connection / bipolarer Anschluss;
- BS = Bipolar Series Connection / bipolar serieller Anschluss
- BP = Bipolar Parallel Connection / bipolar paralleler Anschluss
- * = Stepper Motor with 2. shaft / Motor mit 2. Welle (Ø mm x 13.5 mm)

All stepper motors are available with double shaft. / Alle Motoren sind auf Kundenwunsch mit Doppelwelle lieferbar.

Mechanical Dimensions / mechanische Abmessungen:

42.3Max 31±0.2 Z 0 WE C Z Y EWE C

Wiring Diagram / Verdrahtungsschema:



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Right of techn. modifications is reserved

www.mecheltron.com

Technische Änderungen vorbehalten