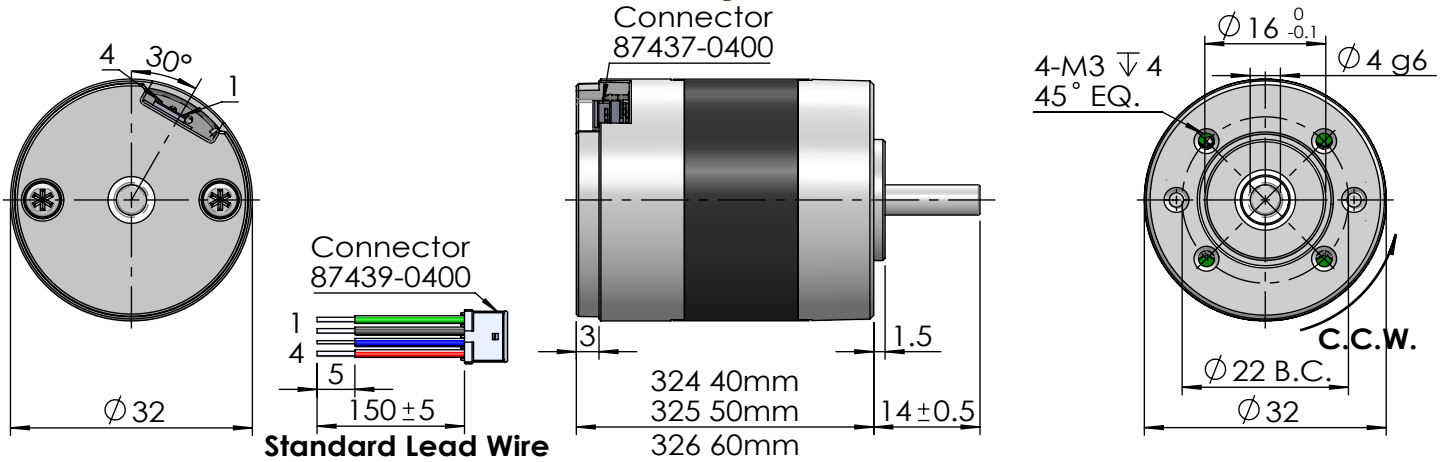


ER32 B-Class Insulation / IP5X Protection Brushless Motor Internal Easy-Use Driver



ER324 Motor Data										10W		Weight		Inertia		Cogging	
Item	Volt	No Load	Rated at Max. Eff.					Stall		Pmax	Rt	La	Kt	Ke	Ks	Tm	Te
Unit	V	rpm	mA	rpm	mA	g-Cm	W	%	g-Cm	mA	W	Ω	mH	Kg-cm/A	V/krpm	rpm/V	mS
-119	12	1900	70	1430	216	99	1.5	56.08	400	660	2.0	18	8.7	0.678	6.96	144	3.5
-140	12	4000	150	3229	642	162	5.4	69.75	840	2700	8.6	4.1	2.0	0.329	3.38	296	3
-160	12	6040	370	4766	1418	232	11.4	66.73	1100	5340	17.1	1.9	0.9	0.221	2.27	440	3.5
-196	12	9600	450	7952	2261	230	18.8	69.24	1340	11000	33.0	1.0	0.4	0.127	1.30	767	5.5
-225	24	2550	60	1888	179	135	2.6	60.79	520	520	3.4	46	19.0	1.130	11.60	86	3.2
-238	24	3730	130	2824	414	209	6.1	60.95	860	1300	8.2	18	8.7	0.735	7.55	133	3.0
-265	24	6500	160	5321	757	254	13.9	76.41	1400	3450	23.4	6.8	3.1	0.426	4.37	229	3.3
-294	24	9400	250	7876	1360	308	24.9	76.31	1900	7100	3.3	3.3	1.4	0.277	2.85	351	3.8
ER325 Motor Data										15W		Weight		Inertia		Cogging	
Item	Volt	No Load	Rated at Max. Eff.					Stall		Pmax	Rt	La	Kt	Ke	Ks	Tm	Te
Unit	V	rpm	mA	rpm	mA	g-Cm	W	%	g-Cm	mA	W	Ω	mH	Kg-cm/A	V/krpm	rpm/V	mS
-122	12	2160	75	1725	306	131	2.3	63.24	650	1220	3.6	9.7	4.8	0.568	5.83	172	2.7
-139	12	3900	140	3286	767	189	6.4	69.31	1200	4120	12.0	2.9	1.2	0.302	3.09	323	3
-162	12	6240	190	5348	1192	193	10.6	74.10	1350	7200	21.6	1.4	0.59	0.193	1.98	506	3.4
-225	24	2560	80	1988	285	201	4.1	59.91	900	1000	5.9	25	13.7	0.978	10.04	100	2.3
-236	24	3650	100	2935	441	235	7.1	66.97	1200	1840	11.2	13	6.7	0.690	7.08	141	2.5
-263	24	6260	150	5277	844	267	14.5	71.42	1700	4570	27.3	4.9	2.3	0.385	3.95	253	2.9
-282	24	8140	190	7052	1254	294	21.3	70.77	2200	8150	46.0	2.9	1.2	0.276	2.84	352	3.4
-298	24	9770	220	8541	1576	327	28.7	75.85	2600	11000	65.2	2.2	0.97	0.241	2.48	404	3.4
ER326 Motor Data										20W		Weight		Inertia		Cogging	
Item	Volt	No Load	Rated at Max. Eff.					Stall		Pmax	Rt	La	Kt	Ke	Ks	Tm	Te
Unit	V	rpm	mA	rpm	mA	g-Cm	W	%	g-Cm	mA	W	Ω	mH	Kg-cm/A	V/krpm	rpm/V	mS
-123	12	2270	90	1861	427	180	3.4	67.22	1000	1960	5.8	6.1	3	0.535	5.49	182	1.9
-135	12	3500	140	2949	795	225	6.8	71.48	1430	4300	12.9	2.6	1.3	0.344	3.53	283	2.0
-157	12	5700	210	4919	1374	233	11.8	71.41	1700	8700	24.9	1.2	0.48	0.200	2.06	487	2.7
-170	12	6990	260	6102	1878	254	15.9	70.64	2000	13000	35.9	0.8	0.32	0.157	1.61	621	2.9
-226	24	2650	85	2101	337	265	5.7	70.81	1280	1300	8.7	17.8	9	1.053	10.81	92	1.4
-240	24	3950	110	3322	601	299	10.2	70.67	1880	3200	19.1	7.2	3.9	0.608	6.25	160	1.7
-260	24	6040	150	5260	1022	323	17.4	71.13	2500	6900	38.8	3.2	1.7	0.370	3.80	263	2.1
-291	24	9100	210	8077	1704	354	29.4	71.83	3150	13500	73.6	1.6	0.78	0.237	2.43	411	2.5

Pin No.	Symbol	Function	Standard condition	Coller of wire
1	F / R	H:CCW L:CW	H:GND open L:Connector to GND	Green
2	GND	Power GND	DC7~30V MAX.	Black
3	Brake	BEMF Brake operates	Connector to GND	Blue
4	VM+	Power positive for drive (Enable)	DC7~30V MAX. (Voltage speed control)	Red

Warning: Reversing the polarity will cause damage to the driver.