

Q SERIES

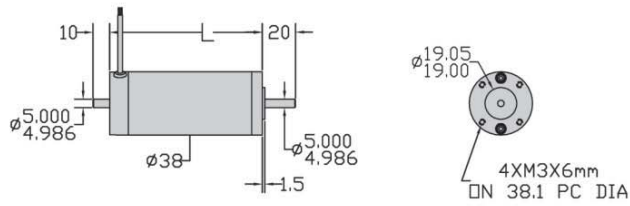
ISSUE 1



Brushed DC Servomotors

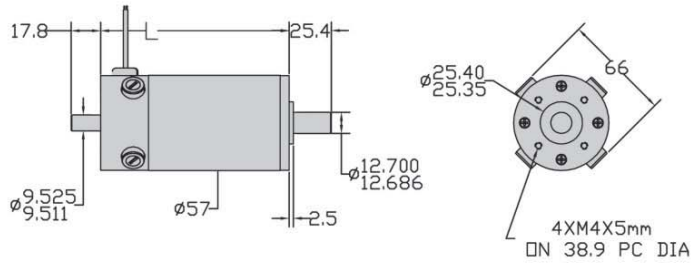
MYG

Q38



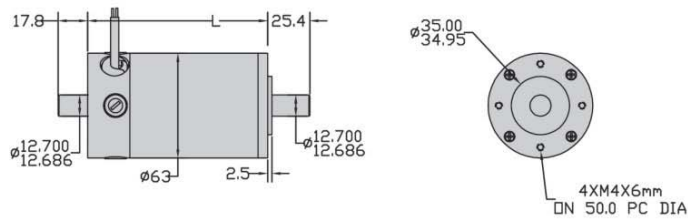
MODEL	L		
	LENGTH	WITH ENCODER	WITH ENCODER AND BRAKE
Q38-04	66.3	84.3	
Q38-06	79.0	97.0	
Q38-08	91.7	109.7	
Q38-10	104.4	122.4	

Q58



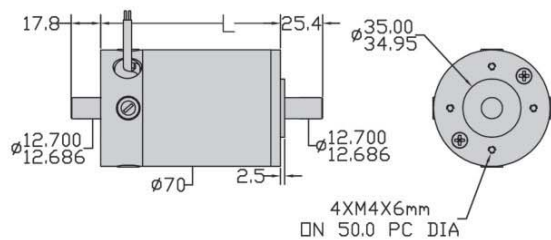
MODEL	L		
	LENGTH	WITH ENCODER	WITH ENCODER AND BRAKE
Q58-02	75.1	101.6	132.6
Q58-04	87.8	114.3	145.3
Q58-06	100.5	127.0	158.0
Q58-08	113.2	139.7	170.7
Q58-11	134.8	161.3	192.3

Q62



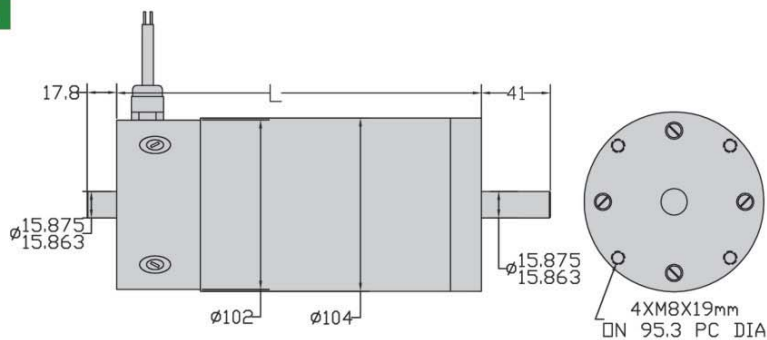
MODEL	L		
	LENGTH	WITH ENCODER	WITH ENCODER AND BRAKE
Q62-04	82.6	125.4	165.8
Q62-06	95.3	138.1	178.5
Q62-08	108.0	150.8	191.2
Q62-12	133.4	176.2	216.6
Q62-16	158.9	201.6	242.0

Q70



MODEL	L		
	LENGTH	WITH ENCODER	WITH ENCODER AND BRAKE
Q70-04	82.6	125.4	165.8
Q70-06	95.3	138.1	178.5
Q70-08	108.0	150.8	191.2
Q70-12	133.4	176.2	216.6
Q70-16	158.9	201.6	242.0

Q104



MODEL	L		
	LENGTH	WITH ENCODER	WITH ENCODER AND BRAKE
Q104-20	219.6		

Q SERIES

Motor type	Winding	Voltage gradient +15% - 5%	Net weight (no brake fitted)	Body Length	Cont. stall torque	Cont. stall current (rms)	Max. Cogging torque	Peak torque	Max. Peak current	Resistance	Inductance	Max. Mechanical speed	Rotor inertia (no brake fitted)	Torque constant (3x Ktrms)	Max. EMF speed	Nominal speed	Nominal torque	Nominal power	
		V/Krpm	kg	mm	Nm	Amps	mNm	Nm	Amps	Ohms	mH	R.P.M.	kg.cm ²	mNm/A	V	rpm	Nm	W	
Q38-04	H		1.10	0.5	66.3	0.08	8.81	7.8	0.25	24.9	0.11	0.02	10000	0.019	10.5	11	6100	0.08	51.11
	K		2.20	0.5	66.3	0.13	6.76	7.8	0.4	19.5	0.42	0.09	10000	0.019	21.0	22	7000	0.13	95.32
	N		4.00	0.5	66.3	0.14	3.9	7.8	0.42	11.3	1.66	0.35	10000	0.019	38.2	40	6900	0.14	101.18
	P		6.10	0.5	66.3	0.16	2.8	7.8	0.47	8.1	4.14	0.87	10000	0.019	58.3	61	5400	0.16	90.50
Q38-06	I		2.20	0.6	79.0	0.14	7.56	17.7	0.42	21	0.3	0.09	10000	0.028	21.0	22	5000	0.14	73.32
	L		4.10	0.6	79.0	0.18	4.96	17.7	0.53	14	1	0.35	10000	0.028	39.2	41	5900	0.18	111.24
	N	●	6.20	0.6	79.0	0.2	3.64	17.7	0.59	10.3	2.5	0.89	10000	0.028	59.2	62	4100	0.2	85.89
	P		9.40	0.6	79.0	0.2	2.4	17.7	0.59	6.8	5.8	2.21	10000	0.028	89.8	94	3700	0.2	77.51
Q38-08	H		2.05	0.7	91.7	0.16	8.69	14.8	0.47	24.6	0.2	0.17	10000	0.037	19.6	21	5700	0.16	95.53
	K		3.91	0.7	91.7	0.19	5.5	14.8	0.57	15.7	0.9	0.41	10000	0.037	37.3	39	6600	0.19	131.35
	M		5.77	0.7	91.7	0.2	3.99	14.8	0.61	11.4	2.1	0.62	10000	0.037	55.1	58	7100	0.2	148.74
	O		8.94	0.7	91.7	0.2	2.57	14.8	0.61	7.4	5.3	1.56	10000	0.037	85.4	89	6900	0.2	144.55
Q38-10	G		2.09	0.8	104.4	0.16	8.7	18.4	0.47	24.3	0.22	0.13	10000	0.042	20.0	21	6700	0.16	112.28
	I	●	3.26	0.8	104.4	0.2	7.17	18.4	0.61	20.3	0.43	0.33	10000	0.042	31.1	33	7700	0.2	161.30
	M	●	7.21	0.8	104.4	0.25	3.96	18.4	0.76	11.3	2.66	2.07	10000	0.042	68.9	72	5000	0.25	130.93
	O		11.17	0.8	104.4	0.25	2.56	18.4	0.76	7.3	6.64	5.16	10000	0.042	106.7	112	3600	0.25	94.27
Q58-04	G2	●	3.10	0.9	87.8	0.08	4.3	55.08	0.23	9.5	0.08	0.09	8000	0.424	29.60	25	3800	0.08	31.84
	F	●	4.70	0.9	87.8	0.11	3.43	55.08	0.32	8.1	0.2	0.22	8000	0.424	44.88	38	3600	0.11	41.48
	I	●	9.60	0.9	87.8	0.18	2.53	55.08	0.55	6.5	0.8	0.92	8000	0.424	91.68	77	3000	0.18	56.56
Q58-06	F2		3.60	1.1	100.5	0.11	4.7	55.79	0.32	10.9	0.07	0.07	8000	0.530	34.38	29	3000	0.11	34.57
	F		7.20	1.1	100.5	0.16	3.07	55.79	0.47	7.6	0.28	0.27	8000	0.530	68.76	58	3000	0.16	50.28
	H		11.20	1.1	100.5	0.23	2.7	55.79	0.7	7.1	0.7	0.68	8000	0.530	106.96	90	2500	0.23	60.23
	J		17.80	1.1	100.5	0.32	2.24	55.79	0.97	6.1	2.4	1.9	8000	0.530	169.99	142	2000	0.32	67.04
Q58-08	F2		4.80	1.3	113.2	0.14	4.5	67.08	0.42	10.7	0.1	0.16	8000	0.706	45.84	38	2800	0.14	41.06
	E		7.10	1.3	113.2	0.18	3.59	67.08	0.53	8.8	0.26	0.28	8000	0.706	67.80	57	2900	0.18	54.68
	K	●	29.50	1.3	113.2	0.42	1.74	67.08	1.27	4.7	4	3.45	8000	0.706	281.72	236	2000	0.42	87.98
Q58-11	E	●	10.10	1.7	134.8	0.21	3.06	83.33	0.64	7.5	0.38	0.27	8000	0.989	96.45	81	2800	0.21	61.59
	G	●	16.80	1.7	134.8	0.3	2.37	83.33	0.89	6.1	0.95	0.76	8000	0.989	160.44	134	2200	0.3	69.13
	I	●	26.80	1.7	134.8	0.56	2.53	83.33	1.69	6.9	2.37	1.89	8000	0.989	255.94	214	1500	0.56	87.98
Q62-04	D2		3.00	0.9	82.6	0.45	8.36	47.31	0.915	27	0.07	0.11	8000	0.70667	0.04	24	4800	0.25	125.69
	E	●	6.00	0.9	82.6	0.52	5.18	47.31	1.1712	17.2	0.28	0.44	8000	0.70667	0.07	48	4900	0.32	164.24
	G		10.40	0.9	82.6	0.57	3.39	47.31	1.3542	11.4	0.66	1.11	8000	0.70667	0.12	83	4700	0.37	182.15
	K		23.60	0.9	82.6	0.64	1.75	47.31	1.6104	6	4.1	5.5	8000	0.70667	0.28	189	3300	0.44	152.09
Q62-06	E3		3.20	1.2	95.3	0.43	7.7	63.55	0.8418	23.7	0.04	0.08	8000	1.06	0.04	26	4700	0.23	113.23
	F		10.40	1.2	95.3	0.55	3.41	63.55	1.281	11.1	0.45	0.74	8000	1.06	0.12	83	5000	0.35	183.30
	I	●	20.40	1.2	95.3	0.61	1.97	63.55	1.5006	6.5	1.81	2.92	8000	1.06	0.24	163	4700	0.41	201.84
	K		32.40	1.2	95.3	0.64	1.32	63.55	1.6104	4.4	4.53	7.28	8000	1.06	0.38	259	3700	0.44	170.52
Q62-08	D4		2.10	1.5	108.0	0.34	10.02	105.92	0.5124	25.2	0.02	0.04	8000	1.41	0.02	17	4100	0.14	60.12
	D		9.10	1.5	108.0	0.47	3.5	105.92	0.9882	10.2	0.25	0.38	8000	1.41	0.11	73	5200	0.27	147.06
	E	●	11.40	1.5	108.0	0.5	3.01	105.92	1.098	8.9	0.4	0.6	8000	1.41	0.13	91	5200	0.3	163.40
	G		17.50	1.5	108.0	0.59	2.4	105.92	1.4274	7.4	0.95	1.03	8000	1.41	0.21	140	4700	0.39	191.99

Motor type	Winding	Voltage gradient +15% -5%	Net weight (no brake fitted)	Body Length	Cont. stall torque	Cont. stall current (rms)	Max. Cogging torque	Peak torque	Max. Peak current	Resistance	Inductance	Max. Mechanical speed	Rotor inertia (no brake fitted)	Torque constant (3x Ktrms)	Max. EMF speed	Nominal speed	Nominal torque	Nominal power	
		V/Krpm	kg	mm	Nm	Amps	mNm	Nm	Amps	Ohms	mH	R.P.M.	kg.cm ²	mNm/A	V	rpm	Nm	W	
Q62-012	D4		3.20	2.1	133.4	0.62	15.33	152.53	1.5372	45.3	0.04	0.06	8000	2.12	0.04	26	4300	0.42	189.17
	D2	●	8.00	2.1	133.4	0.73	7.26	152.53	1.9398	22.3	0.15	0.24	8000	2.12	0.09	64	5300	0.53	294.22
	F		20.80	2.1	133.4	0.87	3.37	152.53	2.4522	10.7	0.93	1.25	8000	2.12	0.24	166	5200	0.67	364.93
	H		30.40	2.1	133.4	0.94	2.5	152.53	2.7084	8	2.33	2.44	8000	2.12	0.36	243	4400	0.74	341.04
Q70-04	E3		2.60	1.0	82.6	0.04	4.21	69.20	0.13	7.9	0.03	0.04	6000	0.71	24.83	16	3600	0.04	15.08
	E		6.50	1.0	82.6	0.13	3.16	69.20	0.38	7.3	0.2	0.28	6000	0.71	62.07	39	3200	0.13	43.57
	G	●	10.40	1.0	82.6	0.18	2.55	69.20	0.55	6.2	0.73	0.7	6000	0.71	99.32	62	3200	0.18	60.33
	J		20.10	1.0	82.6	0.32	2.02	69.20	0.95	5.3	2.85	2.66	6000	0.71	191.95	121	2500	0.32	83.79
Q70-06	E4	●	2.9	1.2	95.3	0.03	4.0	83.33	0.08	6.1	0.04	0.04	6000	1.06	27.69	17	3400	0.03	10.68
	D2	●	4.9	1.2	95.3	0.09	3.74	83.33	0.28	7.7	0.09	0.11	6000	1.06	46.79	29	3000	0.09	28.28
	D	●	8.1	1.2	95.3	0.15	2.99	83.33	0.44	6.8	0.23	0.3	6000	1.06	77.35	49	3000	0.15	47.13
	G	●	16.1	1.2	95.3	0.35	2.65	83.33	1.06	7.2	0.89	1.11	6000	1.06	153.75	97	2700	0.35	98.98
Q70-08	E4		3.9	1.8	108.0	0.14	6.2	88.27	0.42	13.7	0.04	0.04	6000	1.41	37.24	23	3100	0.14	45.46
	D	●	10.3	1.8	108.0	0.35	4.49	88.27	1.06	11.7	0.25	0.3	6000	1.41	98.36	62	2800	0.35	102.65
	G	●	20.6	1.8	108.0	0.56	3.32	88.27	1.69	9.1	1.04	1.2	6000	1.41	196.73	124	2000	0.56	117.31
	K	●	52.6	1.8	108.0	0.88	1.93	88.27	2.65	5.4	5.92	6.82	6000	1.41	502.33	316	1000	0.88	92.17
Q70-12	E4		5.8	2.4	133.4	0.17	5.1	112.28	0.51	11.2	0.06	0.06	6000	2.12	55.39	35	3200	0.17	56.98
	F2		11.5	2.4	133.4	0.34	4.11	112.28	1.02	10.3	0.22	0.19	6000	2.12	109.82	69	2900	0.34	103.28
	F	●	24	2.4	133.4	0.62	3.2	112.28	1.86	8.6	0.87	1	6000	2.12	229.20	144	1900	0.62	123.39
	H		38.5	2.4	133.4	0.95	2.9	112.28	2.86	8.1	2.2	2.47	6000	2.12	367.67	231	1600	0.95	159.21
Q70-16	D4	●	5	3.2	158.9	0.13	5.9	154.65	0.38	11.2	0.03	0.03	6000	2.83	47.75	30	3000	0.13	40.85
	D2	●	12.7	3.2	158.9	0.35	4.19	154.65	1.06	10	0.22	0.2	6000	2.83	121.28	76	2600	0.35	95.32
	D	●	20.3	3.2	158.9	0.53	3.53	154.65	1.59	9	0.56	0.5	6000	2.83	193.86	122	2300	0.53	127.68
	G	●	40.5	3.2	158.9	0.85	2.59	154.65	2.54	7	1.9	2.05	6000	2.83	386.77	243	1600	0.85	142.45
Q104-20	Z		35.5	7.6	219.6	3.18	10.5	382.73	9.53	29.2	0.18	1.64	5000	26.13	339.02	178	2100	3.18	699.48
	C		71.2	7.6	219.6	4.38	7	382.73	13.13	19.9	0.73	3.28	5000	26.13	679.96	356	2000	4.38	917.55

● Preferred motor type

MOTOR TYPE DEFINITION(For brushed types)

For example: **Q70-08F-001FB**

Q: Q series Brushed servomotor

70: 70mm frame servomotor

08F: Number of armature, 08: Rotor stack: F: Winding

001:The serial number

F: Square flange

B: Accessory part(e.g. C-tacho, M-encoder, B-brake, J-gearbox)

Frame Size	Voltage gradient availability																						
	1.4	1.9	2.3	2.9	3.8	4.5	6	7.2	9.4	11.4	15.0	20.0	24.0	32.0	40.0	50.0	67.0	85.0	115	145	180	224	
Q38	04																						
	06																						
	08																						
	10																						
Q58	02																						
	04																						
	06																						
	08																						
	11																						
Q62	04																						
	06																						
	08																						
	12																						
Q70	04																						
	06																						
	08																						
	12																						
	16																						
Q104	20																						

STANDARD/OPTIONAL FEATURES		SERVOMOTOR TYPE				
DESCRIPTION OPTIONS		Q38	Q58	Q62	Q70	Q104
MECHANICAL	FLANGE MOUNTED	■	■	■	■	■
	KEYWAY	○	■	■	■	■
	PLAIN SHAFT	●	●	●	●	●
	OUTPUT SHAFT OD (mm)	5	6-12.7	8-12.7	8-12.7	8-15.88
	IP44(AT SHAFT WITH SEAL FITTED)	●	●	●	●	●
ELECTRICAL CONNECTION	VERTICAL CONNECTORS	●	●	●	●	●
	CUSTOMER SPECIFIED CONNECTION	●	●	●	●	●
	FLYING LEADS	●	●	●	●	●
HOLDING BRAKE	24 VDC SPRING APPLIED	○	●	●	●	●
FEEDBACK DEVICE	INCREMENTAL ENCODER WITH BLOCK COMMUTATION	■	■	■	■	■
	RESOLVER	●	●	●	●	●
	SINGLE OR MULTITURN ABSOLUTE ENCODER	●	●	●	●	●
	ENCODER MOUNTING KIT TO SUIT CUSTOMER SPECIFIED ENCODER	●	●	●	●	●
CE APPROVAL	UL CERTIFICATION	●	●	●	●	●



■ STANDARD FEATURE ● OPTION ○ NOT AVAILABLE

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