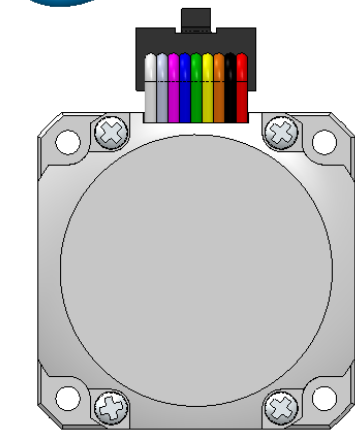
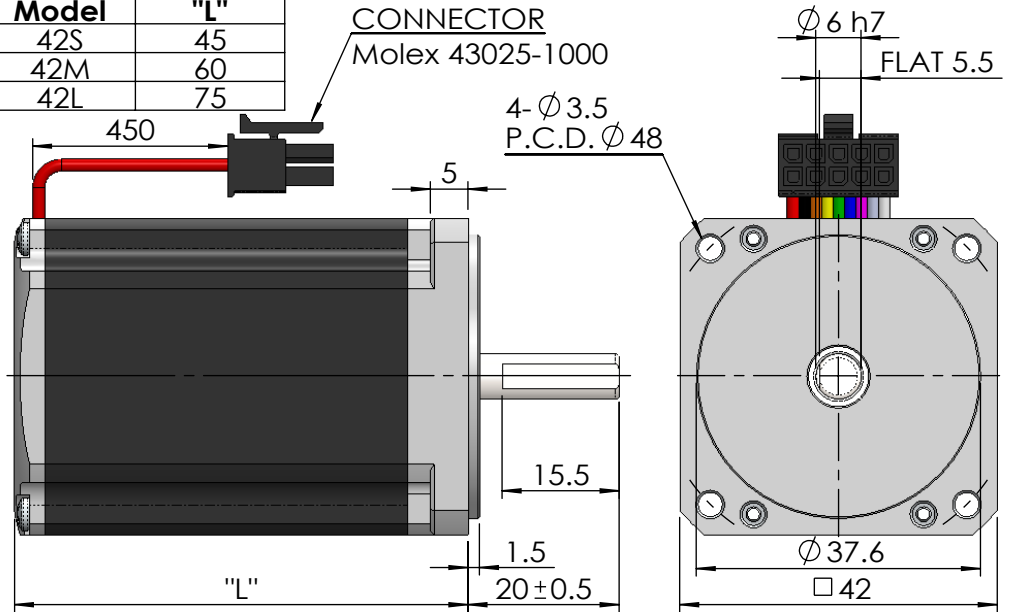


Brushless
BF42



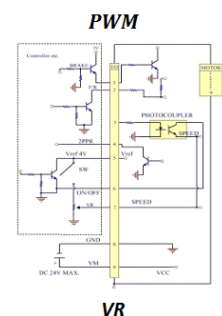
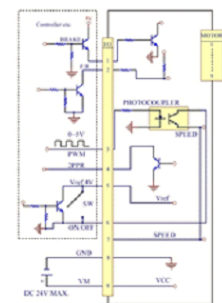
Model	"L"
42S	45
42M	60
42L	75



ITEM	PARAMETER	SYMBOLS	UNITS	BF42S	BF42M	BF42L
1	Voltage	Vr	V D.C.	24	24	24
2	No load speed	No	R.P.M.	5300	5200	4800
3	No load current	Io	mA	130	140	250
4	Rated speed at max. efficiency	Nr	R.P.M.	4423	4619	4172
5	Rated current at max. efficiency	Ir	mA	754	1186	1723
6	Rated torque at max. efficiency	Tr	Gr-Cm	273	447	720
7	Rated power at max. efficiency	Pr	W	12.4	21.2	30.8
8	Efficiency	η	%	68.6	74.5	74.6
9	Stall torque	Ts	Gr-Cm	1650	4000	5500
10	Stall current	Is	mA	3900	9500	11500
11	Peak output power	Pmax	Watts	22.5	53.4	67.8
12	Terminal resistance	Rt	Ohms	6.15	2.53	2.09

F Series Integrated Full Function Driver

Item	Pin No.	Color of Wire	Symbol	Input or Output	Function	Standard Condition
I/O	1	White	Brake	Input	H: Brake operates L: Brake releases	H: $\geq 2.4V$ L: $\leq 0.4V$
	2	Gray	F/R	Input	H: CCW L: CW	H: $\geq 2.4V$ L: $\leq 0.4V$
	3	Purple	0~5V PWM	Input	Power Supply Positive for External Speed Setter	Power Supply Positive Pulse-width modulation
	4	Blue	2 PPR	Output	Make a full circle 2 Pulse	Open collector
	5	Green	VREF 4V	Output	Driver 4V Output	Provide for high signal
	6	Yellow	On/Off	Input	Motor rotates: 4V~5V Motor stops: $\leq 0.4V$	A semiconductor element Or a switch gear On/Off
	7	Orange	VR	-	Power Supply Positive for External Speed Setter	Variable Resistor 5K~10K
Power Supply	8	Black	GND	-	Power Supply GND	DC12~24V MAX.
	9	Red	VM	Input	Power Supply Positive for drive	



Note: To select one of the PWM (Pin 3) or the VR (Pin 7) for speed control and connect both simultaneously is not allowed.