

BRUSHLESS

- Golf Car
- Tractor
- Minivan
- Forklift
- LSV
- Go Cart
- Pedicab
- Scooter
- Bike

DC MOTOR & DRIVES



ADLEEPOWER
SINCE 1974. ISO 9001

www.adlee.com

BRUSHLESS DC MOTOR & DRIVES

Driver Functions

- Re-Generated braking
- Speed control / torque control
- Buzzer signals
- Key switch
- Safety switch
- Forward / Reverse
- Fault LED

Driver protections

- Over current protection
- Motor over heat protection
- Low voltage protection
- Stall protection
- Driver over heat protection
- Motor phase to phase short circuit protection
- Accelerator initial detection

Brushless DC Motor Specification

Motor Model No.		BM-180	BM-370	BM-400E	BM-750E	BM-1500E
Drive Model No.		SW02	SW02	SW05A	SW06B	SW06A
Input Voltage	VDC	24	24	48	48	48
Rate Power	W	180	370	400	750	1500
Rate Torque	Kg-cm	9.0	12.0	9.0	16.2	34.0
Max. Torque	Kg-cm	27	40	35	70	130
Rate Current	A	9.0	19.0	9.7	18.6	36.0
Max. Current	A	25	50	29	57	106
Rate Speed	RPM	2000	3000	4300	4500	4300
Max. Speed	RPM	2500	3700	4700	4800	4600
Max. Power	W	280	650	800	2100	3700
Motor Dimensions		Fig 1	Fig 3	Fig 5	Fig 7	Fig 8
Drive Dimensions		Fig A	Fig A	Fig C	Fig D	Fig E

Motor Model No.		BM-2200E	BM-3700E	BM-5000ES	BM-5000ER	BM-5500E
Drive Model No.		SW06A/SW08A	SW08A/SW08B	SW08B	SW08B	SW08C
Input Voltage	VDC	48	48	48	48	72
Rate Power	W	2200	3700	5000	5000	5500
Rate Torque	Kg-cm	48.7	90	72	250	134
Max. Torque	Kg-cm	124/180	150/215	130	350	300
Rate Current	A	48	87	140	114	89
Max. Current	A	106/140	140/200	200	350	200
Rate Speed	RPM	4400	4000	6500	1900	4000
Max. Speed	RPM	4800	4700	7000	6000	4600
Max. Power	W	3700/5200	5200/5800	8000	5700	10500
Motor Dimensions		Fig 8	Fig 9	Fig 11	Fig 12	Fig 10
Drive Dimensions		Fig E/F	Fig F	Fig F	Fig F	Fig F

Note: The driver functions and protections are varied in different models.



BRUSHLESS DC SERVO MOTOR & DRIVES

Driver Functions

- Coarse loop speed control
- Acc./Dec. time
- Multistage speed
- SONservo ON switch
- Source of speed command (Vref analog, Digital, Communication)
- DI multi function signal input
- DO multi function signal output

Driver protections

- Over current protection
- Over load protection
- Low voltage protection
- Over voltage protection
- Driver over heat protection
- HALL SENSOR error
- Motor phase to phase short circuit protection

Brushless DC Servo Motor Specification

Motor Model No.		BM-180E	BM-370E	BM-550E	BM-750E
Drive Model No.		SWAN2V202	SWAN2V204	SWAN5V205	SWAN6V407
Input Voltage	VDC	24	24	24	48
Drive Max. Voltage	VDC	30	30	30	60
Rate Power	W	180	370	550	750
Rate Torque	Kg-cm	6.1	12.2	18.1	24.4
Max. Torque	Kg-cm	16.8	34.2	77.3	69.8
Rate Current	A	9.3	18.6	27.6	18.6
Max. Current	A	26.1	52	77	52
Rate Speed	RPM	3000	3000	3000	3000
Motor Dimensions		Fig 2	Fig 4	Fig 6	Fig 7
Drive Dimensions		Fig B	Fig B	Fig C	Fig E

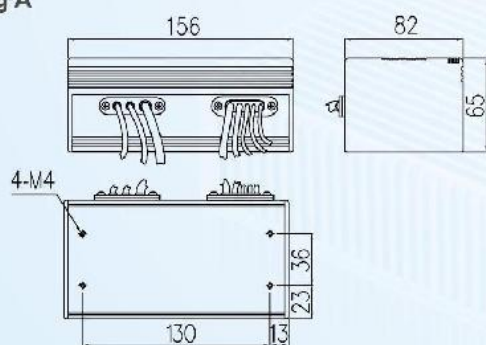
Motor Model No.		BM-1500E	BM-2200E	BM-3700E
Drive Model No.		SWAN6V415	SWAN6V422	SWAN8V437
Input Voltage	VDC	48	48	48
Drive Max. Voltage	VDC	60	60	60
Rate Power	W	1500	2200	3700
Rate Torque	Kg-cm	48.8	73.2	122
Max. Torque	Kg-cm	136.64	205	340
Rate Current	A	36	48	87
Max. Current	A	101	134.4	244
Rate Speed	RPM	3000	3000	3000
Motor Dimensions		Fig 8	Fig 8	Fig 9
Drive Dimensions		Fig E	Fig E	Fig F

Note: The driver functions and protections are varied in different models.

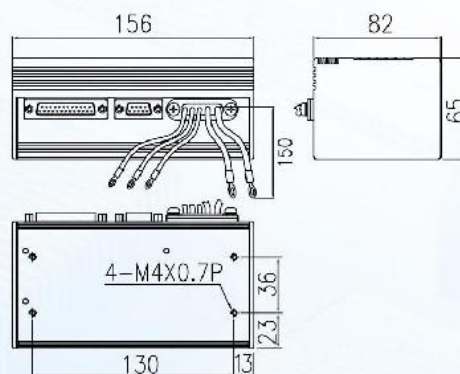


Drive Dimensions

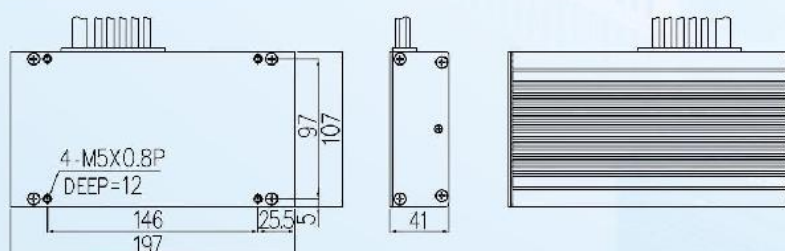
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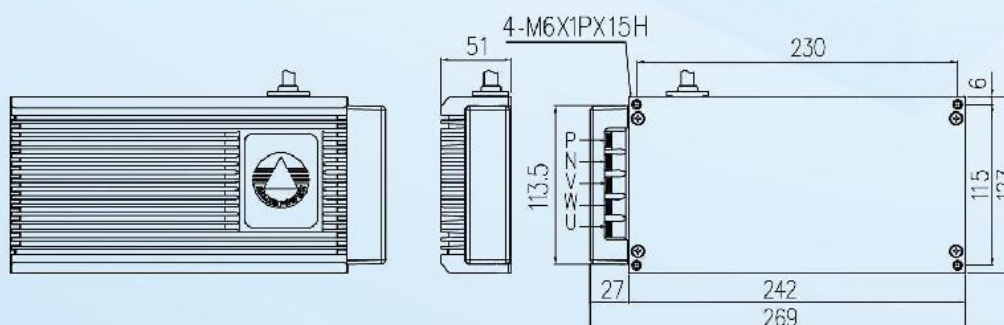
• Fig B



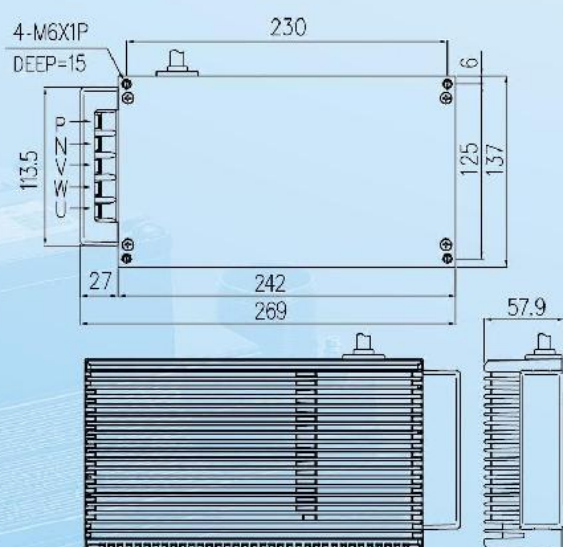
• Fig C



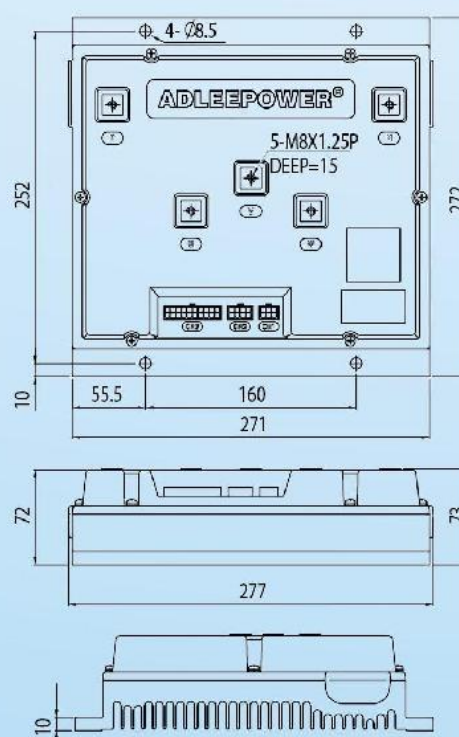
• Fig D



• Fig E

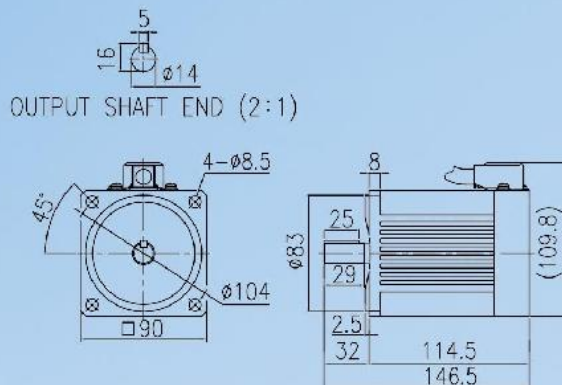


• Fig F

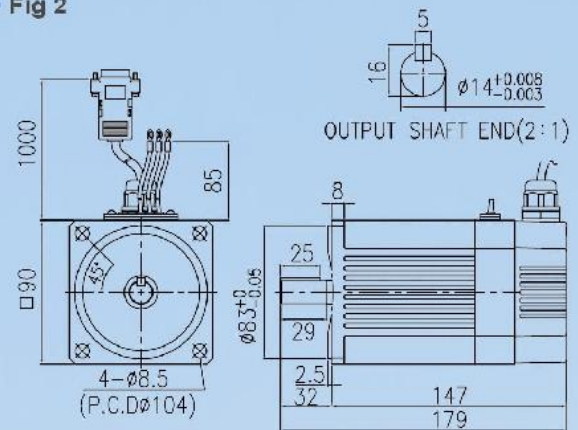


Motor Dimensions

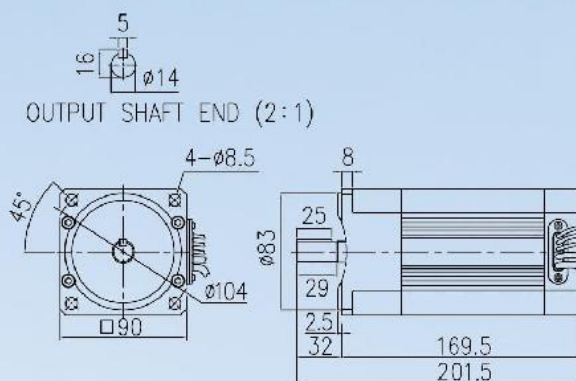
• Fig 1



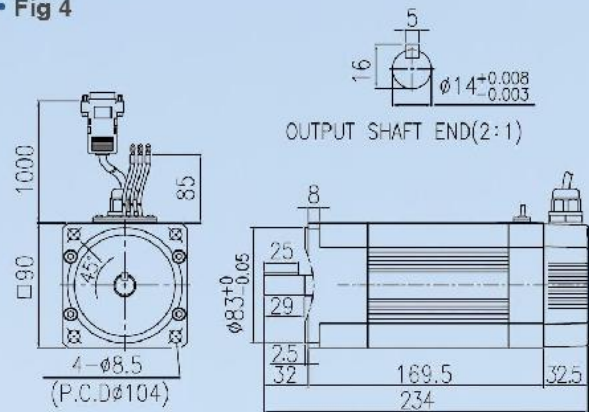
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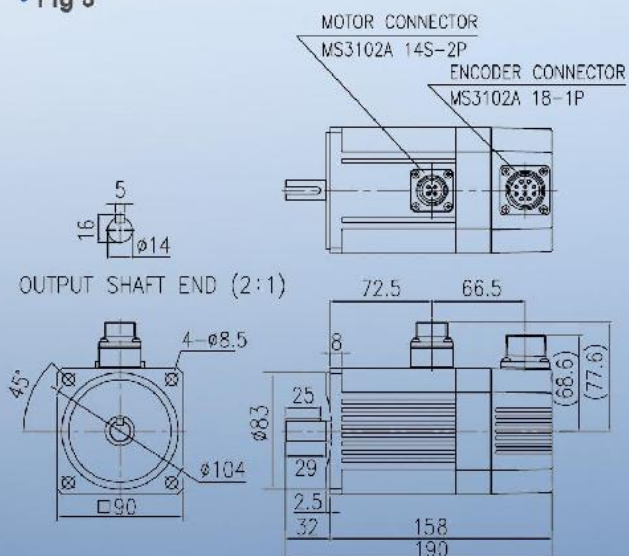
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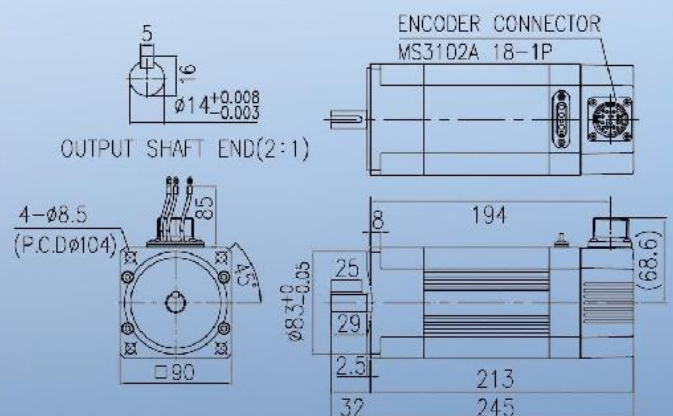
• Fig 4



• Fig 5

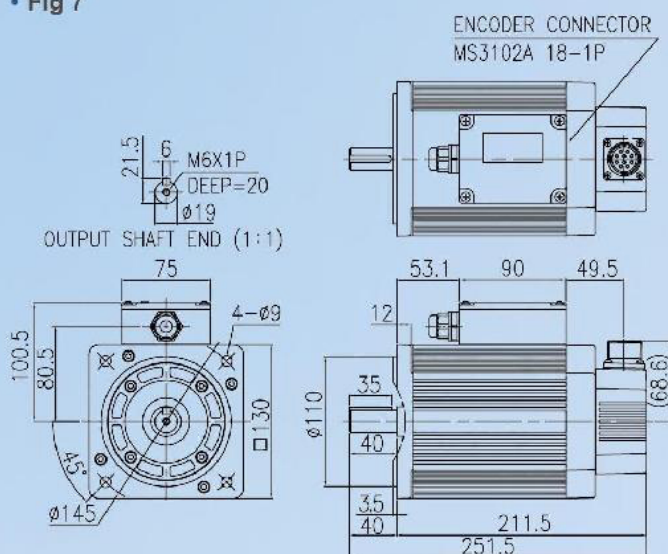


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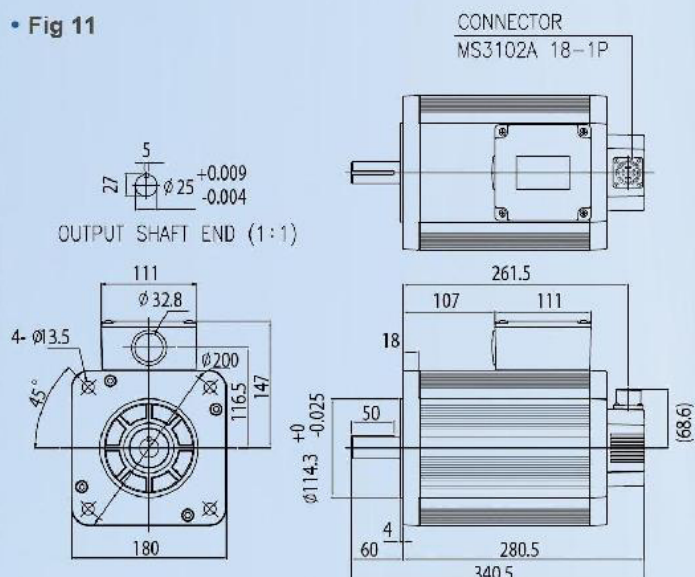


Motor Dimensions

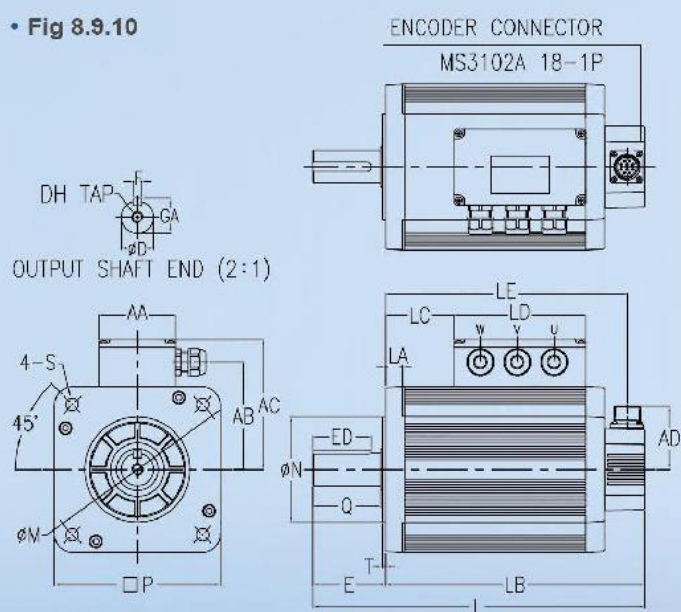
• Fig 7



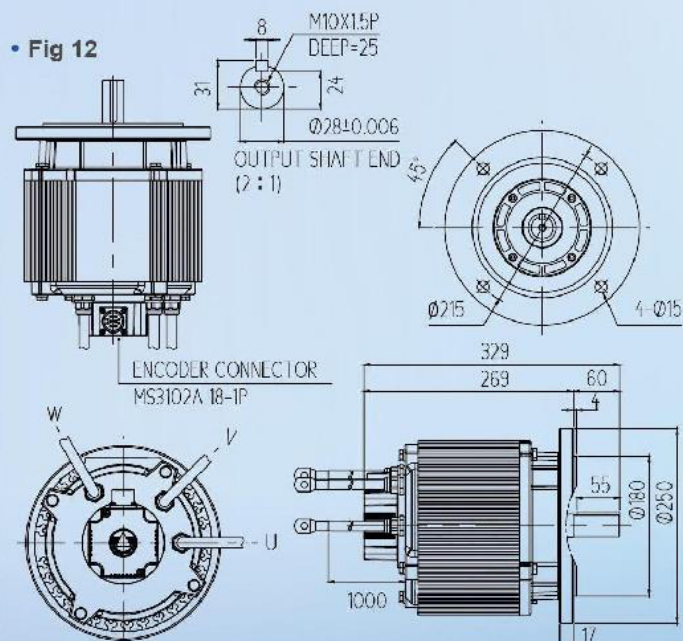
• Fig 11



• Fig 8.9.10



• Fig 12



UNIT: mm

FIG	□P	øM	øS	øN	T	L	LA	LB	LC	LD	LE	AA	AB	AC	AD	SHAFT END						
																ED	Q	E	øD	GA	F	DH
FIG 8	130	145	9	110	3.5	288.5	12	238.5	27	143	219.5	82.5	93.5	116	68.6	45	50	50	24	27	8	M8X24L
FIG 9	180	200	13.5	114.3	4	359.5	18	280.5	74		261.5		116.5	141		63	73	79	35	38	10	M12X25L
FIG10						454.5					322.5					90	108.5	113	42	45	12	M16X32L



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