

ADLEEPOWER[®]

INSTRUCTION MANUAL

BM SERIES BLDC MOTOR AND SWAN2 DRIVES



THANK YOU VERY MUCH FOR YOUR PURCHASE
OF ADLEE SERVO MOTORS AND DRIVES.
PLEASE READ THIS INSTRUCTION MANUAL
BEFORE INSTALLATION OF THE DRIVER.

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1. RECEIVING

- (1) No damage is found on each product when receiving.
- (2) The package should contains a set of drive unit and instruction manual.
For any irregularity, contact the sales shop where you purchased immediately.
- (3) The product is as ordered (check the nameplate and voltage).
- (4) The drive has been designed for use in combination with the specified BLDC motors only. Check if the specifications of drive and BLDC motor are in a set.
- (5) Check if the BLDC motor's shaft can be rotated smoothly by hand.
(The BLDC motor shaft cannot be rotated if it is with mechanical brake.)

(6) Description of nameplate

Drive

ADLEEPOWER®			
BLDC DRIVE			
DC-INPUT		AC-OUTPUT	
Input voltage	24V	Output voltage	0~24V 3PHASE
Input current	SINGLE PHASE 18A	Output power & current	180W 27A
ADLEE POWERTRONIC CO.,LTD.			

Motor

ADLEEPower®				
Brushless DC Motor				
Model No.	Model	BM-180	Output	180W
Input voltage	Volts	24V	IP	40
Rated current	AMP.S	9A	INS.	B
Rated speed	RPM	1950		
ADLEE POWERTRONIC CO., LTD.				

2. SPECIFICATIONS

Drive Model No.	SWAN2	
Motor Model No.	BM-180	BM-370
Rated Voltage (VDC)	24	
Rated Output Power (W)	180	370
Motor Rated Torque (Kg-cm)	9.0	12.0
Motor Max. Torque (Kg-cm)	27	40
Motor Rated Current (A)	9.0	19.0
Motor Max. Current (A)	25	50
Motor Rated Speed (RPM)	1950	3000
Maximum Speed (RPM)	2500	3700
Maximum Output Power (W)	280	650
Driver Dimension Fig.	A	
Motor Dimension Fig.	1	2

3. DIMENSION DRAWINGS

Model No. : SWAN2

Unit:mm

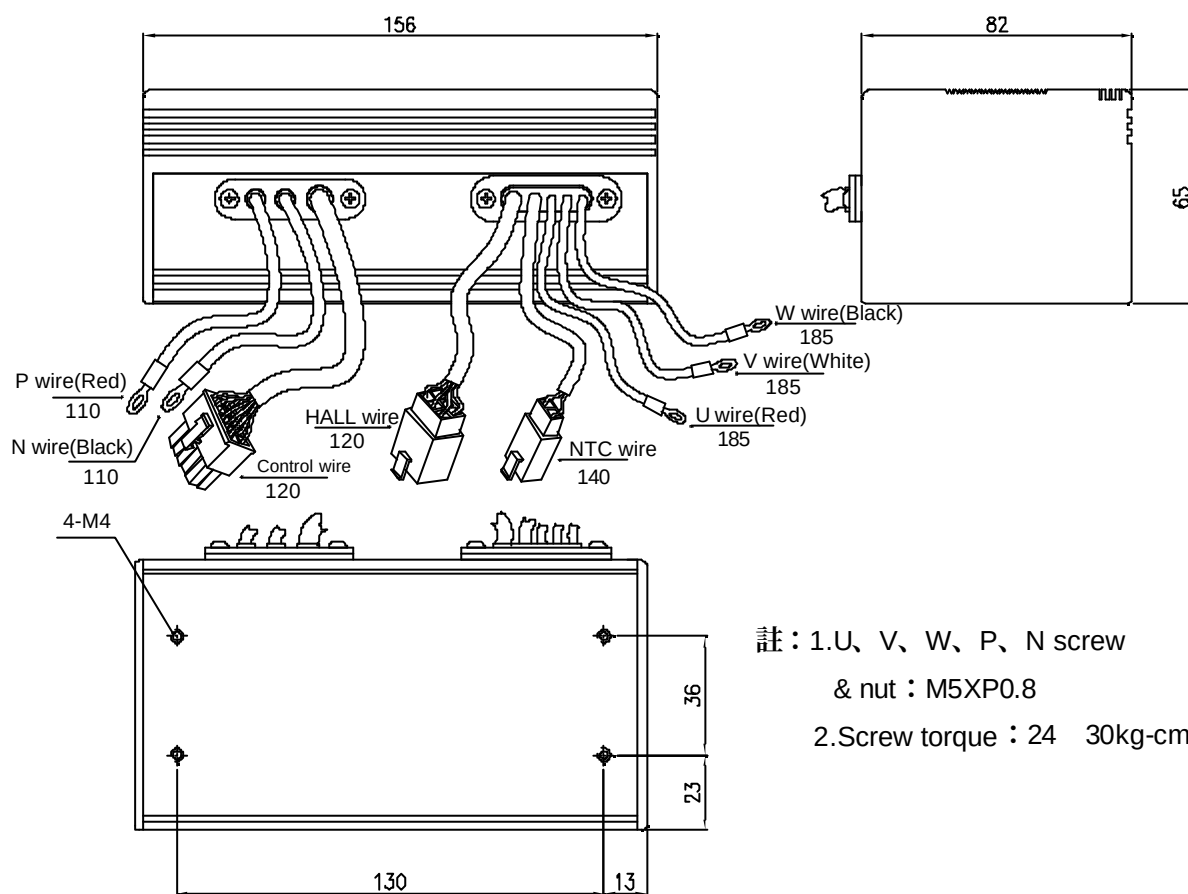


Fig A

Model No. : BM-180

Unit:mm

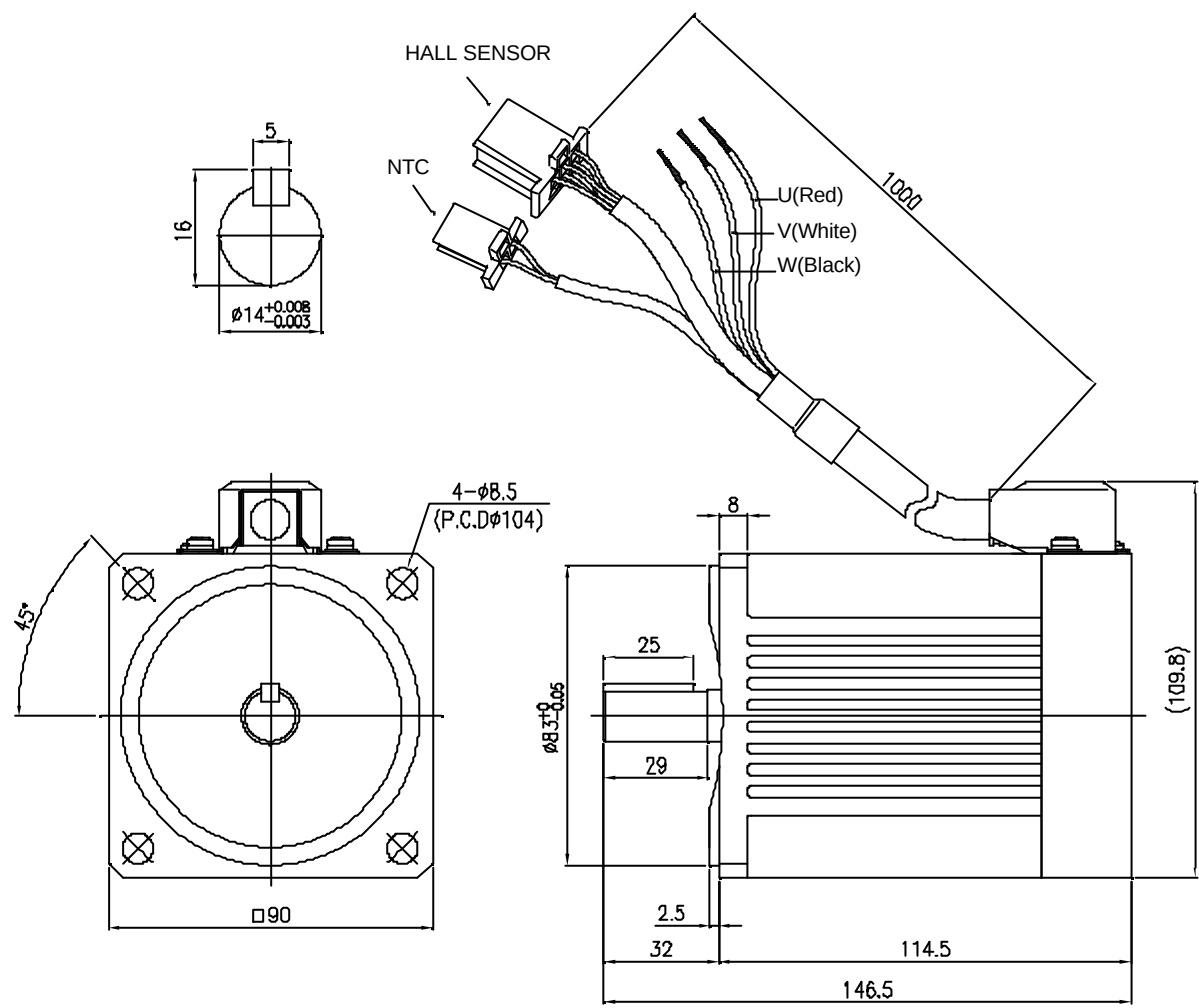


Fig 1

Model No. : BM-370

Unit:mm

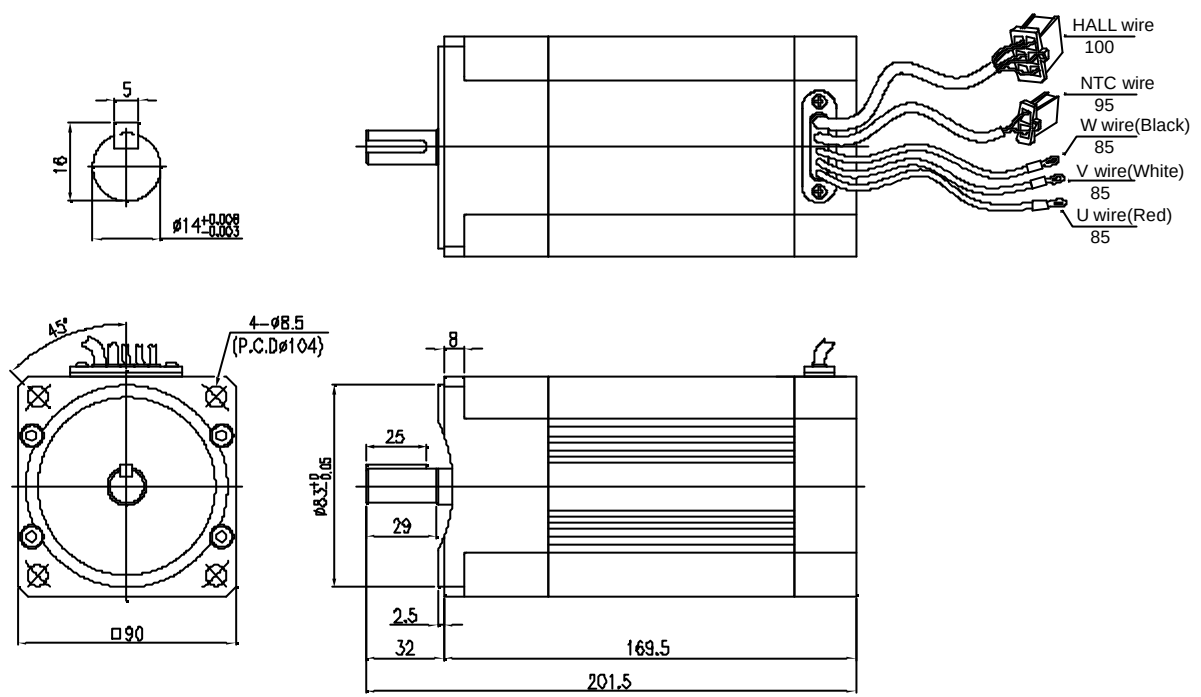


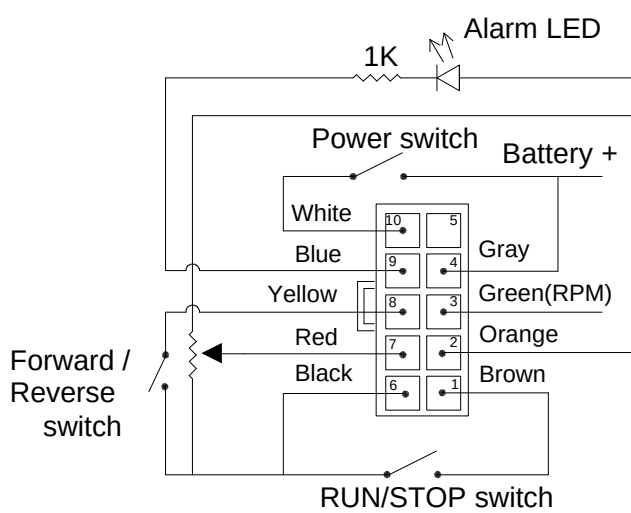
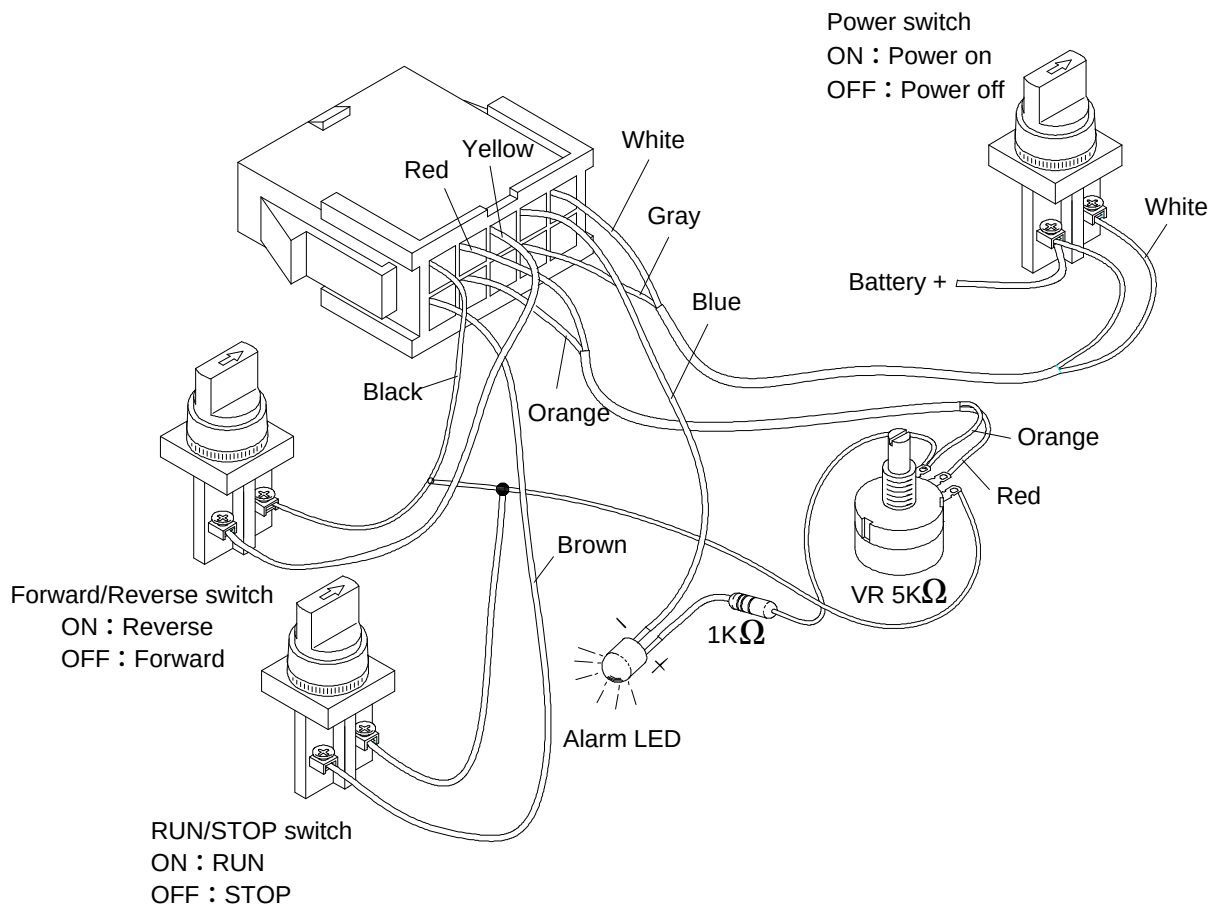
Fig 2

4. INSTALLATION

Installation condition for drive :

1. Well ventilation.
2. The drive should be fastened to clean, flat metal surface.
3. Position in easy wiring and maintain place.
4. Avoid direct sunlight.
5. A thermal joint compound can be used to improve heat condition from the drive heat sink to the mounting surface.

5. WIRING



24EV02 WIRING DIAGRAM		
WIRE COLOR	DEFINITION	DESCRIPTION
Black	GND	Ground
Brown	R/S 2	RUN / STOP 2
Red	IN	Speed command 1.2V~4.8V
Orange	VCC	5VDC power
Yellow	F/R	Forward / Reverse
Green	RPM	RPM output
Blue	LED	Alarm LED
Gray	R/S 1	RUN / STOP 1
White	VDD	Control power input

MEMO

INSTRUCTION MANUAL

PART NO : E-PHAA-ES2A01

Model : SWAN2 series

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