



## ELECTRONIC INSTANT BRAKE

電子式瞬時煞車器 (SB Series)

### ■ 使用頻率及界限

#### OPERATING FREQUENCY AND LIMITATION

雖然IN機形可用於寸動功能，如果使用頻率太高，馬達不斷的啓動、制動，會使溫度變高。所以馬達的表面溫度超過90°C時，請暫停使用。

Although the "IN" model could be used for inch movement, a rise in temperature would result from frequent start-stop action of the motor. Please suspend operation temporarily if the surface temperature of the motor exceeds 90°C.

### ■ 安裝時應注意事項 INSTALLATION CAUTIONS.

- 一台馬達請用一台電子式剎車器。
- 馬達出力不同結線方法也不同，所以請依47頁的結線圖結線。
- 開關SW1切向運轉側，馬達開始運作。切向制動側，馬達瞬時停止。
- 端子間有200V以上電壓，所以結線時請特別注意。
- 開關繼電器、閘刀開關請使用規格品。SB32-IN及SB32S-IN使用開關接點容量AC200V、5A以上。
- 結線圖範例，表示從馬達軸側看，為順時針方向旋轉的結線方式。  
若要做反時針旋轉之結線時：1. 感應式馬達：黃色線與白色導線對換。2. 可逆式馬達：切換SW2開關。  
CW：順時鐘方向旋轉 CCW：反時鐘方向旋轉
- 在正逆轉操作的場合，當制動開關(SW1)動作後，需有0.5秒以上才能切換方向開關(SW2)。
- 在制動頻繁的情況下，外接電阻會相當熱，安裝時需特別注意。
- 馬達起動時及制動操作後0.5秒內，請勿作反向旋轉之操作。
- 馬達為感應性負荷，故接點開閉時會有火花產生，為了保護接點，必須連接如結線圖上突波吸收用之CR回路。  
 $R_o=5\sim200\Omega$ (1/2W以上)  $C_o=0.1\sim0.2\ \mu F(400VAC以上)$
- Apply only one electronic brake onto one motor.
- Motor wiring depends on motor output, please follow the wire diagram to make the wire connection.
- When SW1 is switched from "run" to "brake", the electronic brake is applied to stop the motor instantly.
- Be cautious about the 200 and above voltage among terminals when wiring.
- Apply industrial standard relay switch and gate switch. SB32-IN and SB32S-IN contact capacity is above AC200V, 5A.
- Wire-diagram, it is based on motor shaft point of view, as for clockwise rotate connectivity.  
For conduct counter-clock rotation: 1. induction motor: yellow line and white wire on the exchange. 2. reversible motor: switch SW2 switches.  
CW: clockwise CCW: counter-clockwise rotation
- For operated a reversible motor, it is require more than 0.5 second to switch its reversible mode.
- In the case of frequent braking, its external resistance will be very hot. For the installation, should pay particular attention.
- Within 0.5 seconds after motor start and operation, please do not perform reversible operation.
- To protect power connect spot from spark light when power on or off, it is require to enforce the connectivity via wire diagram such as surge absorber with CR circuit.  $R_o=5\sim200\Omega$ (1/2W above)  $C_o=0.1\sim0.2\ \mu F(400VAC above)$

### 規格表 SPECIFICATIONS

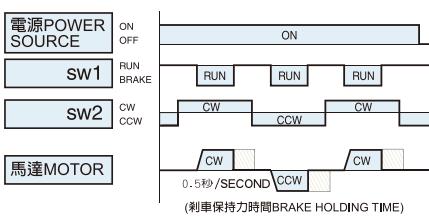
品名 MODEL	電壓(V) VOLTAGE(V)	相數 PHASE	剎車保持力 BRAKE HOLDING FORCE	剎車精度 BRAKE PRECISION	馬達出力(W) MOTOR OUTPUT	工作環境溫度 TEMPERATURE
SB31-IN	100 ~ 125	1ø 單相 Single Phase	0.5秒 / Second	200°	6 ~ 90	-10°C ~ +40°C
SB32-IN	200 ~ 240	1ø 單相 Single Phase	0.5秒 / Second	200°	6 ~ 90	-10°C ~ +40°C
SB32S-IN	200 ~ 240	3ø 三相 Three Phase	0.5秒 / Second	200°	6 ~ 90	-10°C ~ +40°C

### ■ 絝緣阻抗 INSULATING RESISTANCE :

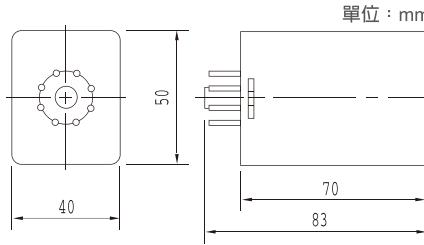
線圈與外殼間以DC 500V高阻計量測，測定值在10MΩ以上。

Tested value at 10MΩ and above, measured by DC 500V hi-resistance meter between the coil and housing.

### ■ 電子式剎車器作動時序圖 OPERATIONAL STEPS OF AN ELECTRONIC BRAKE



### ■ 外型尺寸圖 DRAWING DIMENSIONS

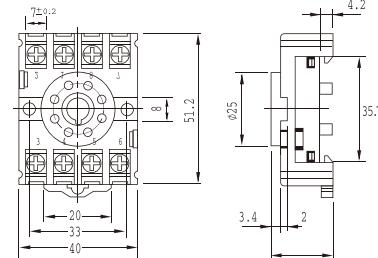


### ■ 絝緣耐力 INSULATION ENDURANCE:

線圈與外殼間以60Hz, 1kV加入一分鐘無異狀。

No damages caused after 1kV at 60Hz was tested for one minute between the coil and housing.

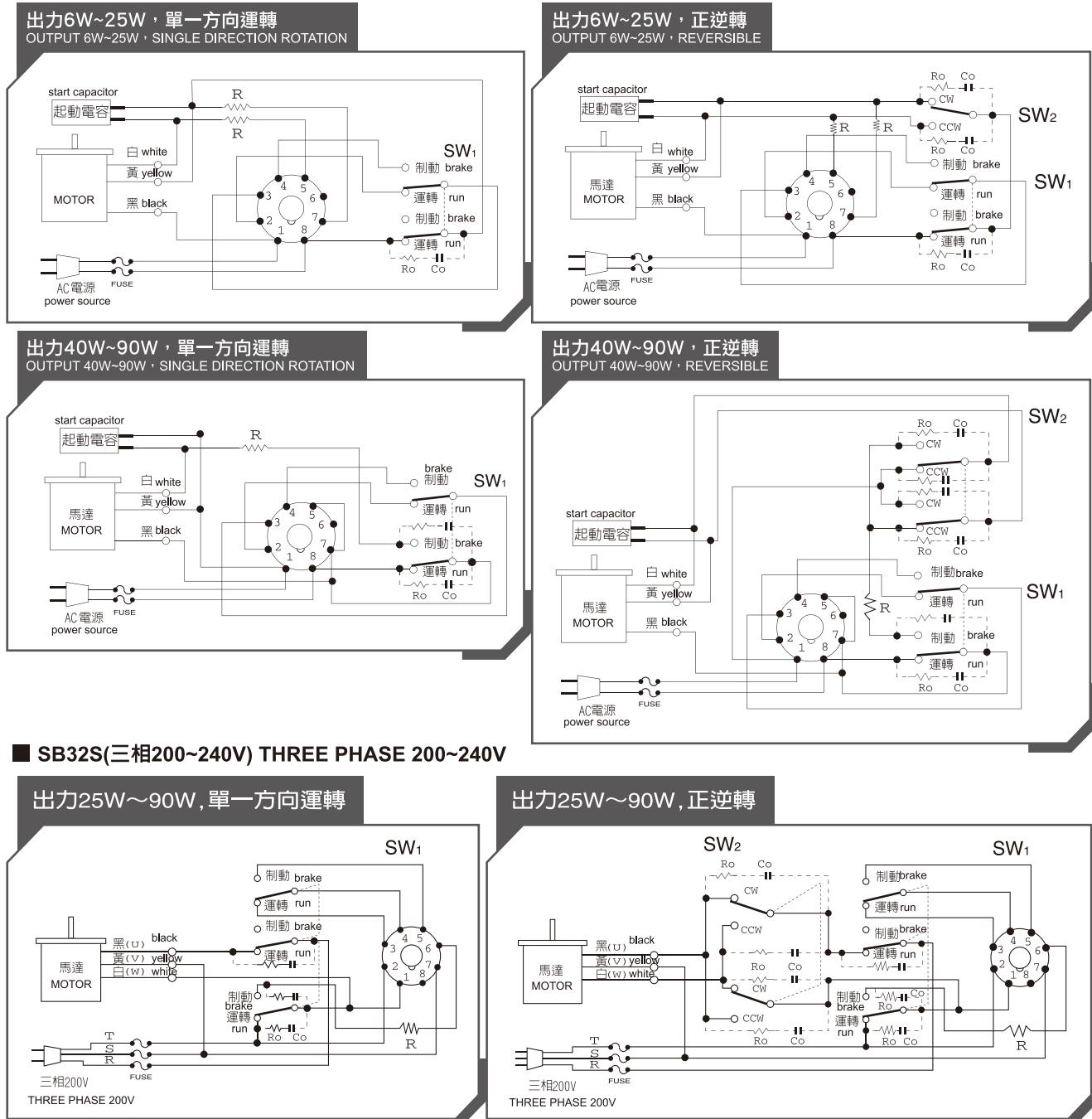
### ■ 腳座 8-PIN BASE :



# ELECTRONIC INSTANT BRAKE

## 電子式瞬時煞車器

- SB31-IN(單相110~125V) SINGLE PHASE 110~125V
- SB32-IN(單相200~240V) SINGLE PHASE 200~240V



### ■ 外接電阻之選擇 SELECTION OF EXTERNAL RESISTANCE

- 出力6W~25W 的外接電阻為20W / 20 Ω。(品名：DDR20W20 QJ)
- 在制動頻率很高的情況下，外接電阻的溫度會很熱，請改用30W / 20 Ω的外接電阻(品名：DDR30W / 20 Ω)
- 出力40W~90W 的外接電阻為50W / 50 Ω。(品名：DDR50W50 QJ)
- 在制動頻率很高的情況下，外接電阻的溫度會很熱，請改用80W / 50 Ω的外接電阻。(品名：DDR80W50 QJ)
- Output 6W~25W: external resistance 20W/20Ω. (Model:DDR20W20 QJ)
- In frequent braking situation, temperature of external resistance would be very high. please use external resistance 30W20Ω. (Model:DDR30W20QJ)
- Output 40W~90W: external resistance 50W/50Ω. (Model:DDR50W50 QJ)
- In frequent braking situation, temperature of external resistance would be very high. please use external resistance 80W50Ω. (Model:DDR80W50QJ)

Products due to human error, natural disasters or other factors lead to poor or damaged, will not be covered under warranty. 產品因人為原因或天災等因素導致不良或損壞，不在保固範圍內。