

# H 型 電 磁 開 關 說 明 書

## User Instruction of H Model Starter

### ⚠ 注意(Caution)

- 負載發生短路時,可能導致開關損壞,故需選用適當的短路保護開關,如MCCB或Fuse.  
May cause the starter to be damaged when the short circuit takes place in load that need to select MCCB or Fuse to protect it.
- 馬達過載使用會導致馬達燒損。  
If the motor over current May cause the motor to burn out.

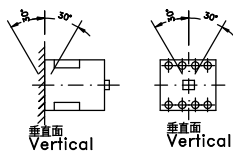
## 1. 安裝注意事項:(Installatio caution)

- 1.1 安裝前,請依馬達滿載電流確認熱動電驛規格是否正確。  
Before the installment,please according to the motor full load current, ensure that right thermal overload relay is selected.
- 1.2 依馬達滿載電流設定熱動過載電驛之刻度電流。  
Adjust the current setting selector of thermal overload relay according to full load current specified on the motor.
- 1.3 熱動電驛發生跳脫時,需先確定馬達電流是否過載運轉,若確定是馬達過載運轉時,務必將過載原因排除,不可將熱動電驛之刻度電流往上調整設定,避免馬達過載運轉發生燒損。  
When thermal overload relay tripping, first need to confirm whether the motor current does overload operated, If it is overload operated,must to remove the overload caused, prevents the motor by overload burning from incorrect adjusted up the thermal overload relay scale.
- 1.4 任何檢修保養前,請先把電源關掉。  
Turn off the power before carrying out any repair or maintenance.

- 1.5 操作溫度:  $-5^{\circ}\text{C}\sim 40^{\circ}\text{C}$ , 相對溼度: 45~85%。  
儲存溫度:  $-40^{\circ}\text{C}\sim 80^{\circ}\text{C}$ , 高度: 2000m 以下。  
Operational temperature:  $-5^{\circ}\text{C}\sim 40^{\circ}\text{C}$ .  
Storage temperature:  $-40^{\circ}\text{C}\sim 80^{\circ}\text{C}$ .  
Relative humidity: 45~85%. Altitude: below 2000m.
- 1.6 若電磁接觸器採用滑軌固定時,在拆卸時必須使用正確尺寸之“-”字螺絲起子依滑軌門動作方向拆除。  
To dismantle the magnetic contactors which is mounted by DIN 35mm rail, right “-” screw driver shall be applied and handled in running direction.
- 1.7 使用本產品時,必需小心輕放,避免碰撞及掉落。  
Please handle carefully and avoid abnormal vibration and shock.
- 1.8 CU-9,-11,-16或RAU-4若需使用側裝式補助接點組或機械連鎖組時,必須確保接觸器側邊防塵貼紙已撕乾淨。  
For CU-9,-11,-16,or RAU-4, the dust-proof label on the side of frame must be tear off clearly, if side-mounted auxiliary contact block or mechanical interlock is used.

## 2. 安裝及配線: (Installation and Wiring)

- 2.1 確認電磁接觸器規格(主,補接點容量,補接點型式,線圈電壓,頻率)是否正確。  
Ensure that the specifications (Rated power, arrangement of auxiliary contact, rated control voltage and frequency) meet the requirements.
- 2.2 依規定方式安裝,安裝角度須在下列範圍內:(如下圖)  
Mounting positions shall be within the ranges specified below:(Such as the picture)



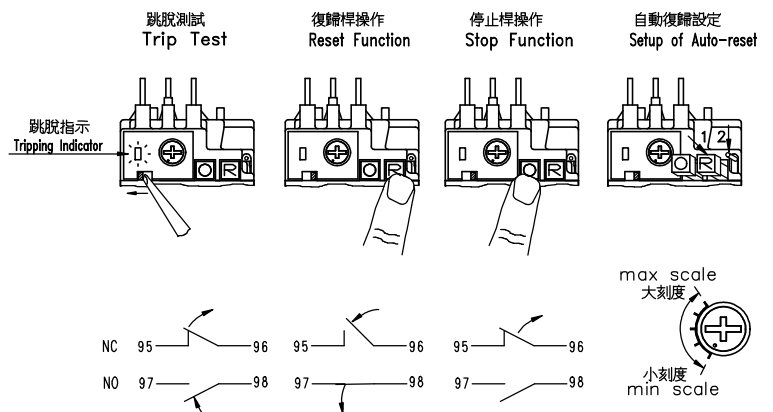
- 2.3 配線時依規格選用壓接端子及配線之線徑,並依序進行配線。  
Select appropriate conductor and tighten with appropriate torque with right tool.
- 2.4 依下表鎖線時,鎖線扭力值如下:  
Tightening torques for contactors are given below:

機 種 Type	項 目 Item	螺絲尺寸 Screw/blot	鎖緊扭力 (kgf.cm) Tighting torque
HU(O)(E)(F)(P)(B)(L)-11~17	主迴路端子 Main Terminal	M3.5	16
HU(O)(F)(P)(B)(L)-18/22	主迴路端子 Main Terminal	M4	30
HU(O)(F)(P)(B)(L)-32R	主迴路端子 Main Terminal	M5	40.5
HU(O)(B)(L)-38/40R	主迴路端子 Main Terminal	M5	40.5
HU(O)(B)(L)-50R/65R/80/90	主迴路端子 Main Terminal	M6	58
HU(O)(B)(L)-50R/65R/80/90	主迴路端子 Main Terminal	M6	58
HN(O)(L)-100/125	主迴路端子 Main Terminal	M8	120
HN(O)(L)-150R	主迴路端子 Main Terminal	M8	120
HN(O)(L)-180/220R	主迴路端子 Main Terminal	M10	190~300
HN(O)(L)-220/300	主迴路端子 Main Terminal	M10	190~300
HU(P)(F)(B)-9~22	蓋螺絲 Cover Screw	M10	5~6
全系列 All Series	補助接點及線圈端子 Auxil contact & coil terminal	M3.5	7.5~11.5

\*鎖線扭力請勿大於上述扭力值,以免造成螺絲滑牙現象。  
Tightening torque shall be within the values given above to avoid deteriorating the screws.

## 3. 功能操作說明: (Operation Instructions)

### 3.1 RHU-5/10/80;RHN-300



\*若操作跳脫測試後發生復歸桿操作無法復歸時,請在跳脫指示窗將指示片往回撥動即可。  
If reset function can't be carried out after conducting trip test, please push back the indicator through the indicator window.

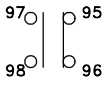

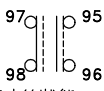
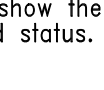

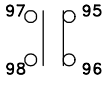

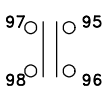
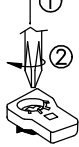
\*若停止桿操作後發生NC接點不通時,請將停止桿往上拉即可。  
If NC contact can't work after conducting stop function, please pull up the stop button.

\*請正確及小心操作上述功能!若操作數次仍無法發揮上述功能時,請檢查其它器具是否有問題。  
Operate the above functions carefully!  
Please check other devices if the function don't work.

\*所有功能必須在小刻度與大刻度之間操作,才能發揮正常功能。  
All of the functions will be correctly operated in the min scale to max scale.

\*使用本產品若有不清楚時,請參閱產品型錄或電洽 03-5981711  
For more information, please see the catalogue or call 03-5981711  
**TECO ELECTRIC & MACHINERY CO., LTD.**  
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3.2 RHN-180

狀態設定/說明 Status / Explain	接點狀態 Contact tip Status	設定方法 Setting mode	復歸方式 Reset mode
H NC 接點無法以手動打開 NC contact can't be opened by manual.		 順時針旋轉至 "H" 位置 Turn it CW to the "H" position.	手動復歸 Manual Reset
HAND 正常使用狀態 Normal operating status.	 虛線表示壓下時的狀態。 "dashed" show the button in depressed status.	停止桿 stop button 復歸桿 reset button 出廠預設於 "HAND" Factory default "HAND".	
AUTO 正常使用狀態 Normal operating status.		 壓下復歸桿 ② 逆時針旋轉至 "AUTO" ① Depress the reset button. Turn it CCW to the "AUTO".	自動復歸 Auto Reset
A NC 接點無法以手動打開 NC contact can't be opened by manual.		 ① 旋轉至 "AUTO" 位置 逆時針旋轉至 "A" 位置 ② After 'turn to the "AUTO" position'. Turn it CCW to the "A" position.	
(H) NC 接點保持打開狀態 NC contact keep open.		 ① 壓下停止桿 ② 順時針旋轉至 "H" 位置 Depress the stop button and turn it CW to the "H" position.	—