



# 微電腦 智慧型馬達啟動緩衝器

## Computer Soft Start Motor Controller



### ◎ 功能簡介 Function Introduction

- 啟動時間與扭力均可調整，使啟動平順圓滑。
- 降壓啟動方式的最佳選擇：效果優於直接啟動、Y- $\Delta$ 啟動、電抗啟動及自藕變壓啟動。
- 配線簡便：三進三出的裝置，節省人工繁瑣配線的花費。
- 採用矽控整流器控制：無接點、無弧光、無光端磨損，相當於半永久性的使用壽命。
- 本控制器具欠相、過溫的保護，體積小、重量輕、啟動效果好。
- 冷卻風扇動作具有溫度控制，可提高風扇壽命 2 ~ 3 倍。
- 三相三線都具有開流體，三相啟動電流平均及無漏電壓之疑慮。
- 耐粉塵、耐潮，可適用於ON-OFF頻繁及怕火花產生場所，工安有保障。
- 本控制器SMC型式，符合CE，IEC60947-4-2認證合格之規範。
- Starting time and torque can be adjusted to make starting smoothly.
- Best choice of pressure down's starting:the effect is better than Y- $\Delta$  starting, reactance starting and self-coupling transforming starting.
- Wiring easy: installation of 3 in 3 out, save the cost of hand wiring.
- Use SCR control: without connecting points, arc light, smooth face wearing, or use-life forever similarly.
- This controller protector: loss phase, over heating, small size, light weight, nice starting.
- Cooling fans has temperature control, this design can extend use-life of fans 2-3 times.
- Both three phases and three-way have thyristor, three phases starting current is average, so without the problem of voltage leakage.
- Powder-dust proof, moisture proof, suitable to ON-OFF frequently and the place can't have spark, the factory security can be ensured.
- This controller is SMC model, tally with the specification of CE, IEC60947-4-2 standard.

## ◎ 一般特性 General Characteristic

主 電 源	Main power voltage	220/380/440VAC±10%
風扇補助電源	Fans voltage	220VAC(額定電流22A&28A加裝風扇之機種)
啟動方式	Start way	乾接點 dry contact point
工作頻率	Work frequency	50/60HZ
啟動時間	Start time(speed time)	1~40sec.
啟動扭力	Start torque	100%~500%
周圍工作溫度	Ambient operating temperature rang	-10℃~45℃
最大相對溼度	Relative humidity	93%無凝結成水滴 93%RH without dew
高度	Height	標高1000公尺以下 Below 1000M
絕緣阻抗	Insulation resistance	20MΩ以上(電源與外殼間) Over 20MΩ (power & external cover) 20MΩ以上(輸入信號與外殼間) Over 20MΩ (input signal & external cover)
耐壓強度	Strength of Press-resisted	電源與外殼間2500VAC/1分鐘 2500VAC/1min between power & external cover 電源與輸入信號1000VAC/1分鐘 1000VAC/1min between power & external cover

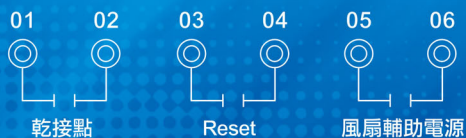
## ◎ 參考建議控制方式 Control method



(圖一)



(圖二)



(圖一)



(圖二)



(圖三)



(圖四)

## ◎ 產品規格選擇 Choice of Specification & Models

額定電流 Rated current	額定電壓 rated Itage				長 L mm	寬 W mm	高 H mm	圖 P
	208-220VAC	HP	380-440VAC	HP				
4A	SMC920010-CD75	1	SMC930020-CD75	2	75	101	102	1
7A	SMC920020-CD75	2	SMC930030-CD75	3	75	101	102	1
10A	SMC920030-CD75	3	SMC930050-CD75	5	75	101	102	1
15A	SMC920050-CD100	5	SMC930075-CD100	7.5	100	101	102	2
22A	SMC920075-CDF75	7.5	SMC930100-CDF75	10	103	101	102	3
28A	SMC920100-CDF100	10	SMC930150-CDF100	15	130	101	102	4

※460~480VAC為訂製品