

# PHASE ANGLE CONTROLLER SSR I/P. 4-20mA/0-10VDC - MODEL 901

**25AMP- MODEL 901 PHT 24 25 420 AL5**



Weight: 110gms SSR +  
20gms Din Rail = 130gms

Model 901 - 25Amp  
Input: 4 to 20mA (Impedance = 100E)  
: 0-10VDC (Impedance = 560E)  
Specify Input according to last 3-digit While  
Placing Order as both input SSR are different:  
MODEL CODE: 420 = 4-20mA Input  
: 010 = 0-10VDC Input  
Output : 230VAC (47-63 Hz)  
PIV : 800Vpk, I<sup>T</sup> : 340A<sup>2</sup>S for 9.6mS  
Body isolation : 4kV for 1min  
I/P. to O/P. isolation : 6kV for 1min  
Inbuilt surge voltage protection of 2700Vrms  
Load Current : 10AMP @40 °C  
Without Heat Sink + Din rail

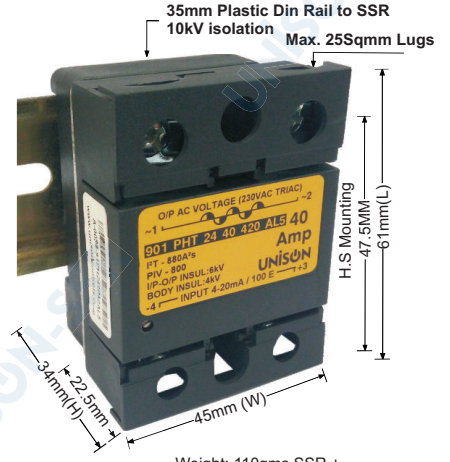
**25AMP- MODEL 901 PHT 24 25 420 AL5 WITH "G-68" H.S.**



Weight: 110gms SSR +  
95gms G-68 Heat sink

Model 901 - 25Amp  
Input: 4 to 20mA (Impedance = 100E)  
: 0-10VDC (Impedance = 560E)  
Specify Input according to last 3-digit While  
Placing Order as both input SSR are different:  
MODEL CODE: 420 = 4-20mA Input  
: 010 = 0-10VDC Input  
Output : 230VAC (47-63 Hz)  
PIV : 800Vpk, I<sup>T</sup> : 340A<sup>2</sup>S for 9.6mS  
Body isolation : 4kV for 1min  
I/P. to O/P. isolation : 6kV for 1min  
Inbuilt surge voltage protection of 2700Vrms  
Load Current : 16AMP @40 °C  
With Heat Sink G-68+Din

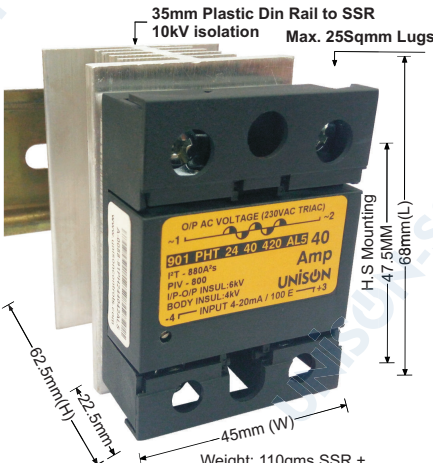
**40AMP- MODEL 901 PHT 24 40 420 AL5**



Weight: 110gms SSR +  
20gms Din Rail = 130gms

Model 901 - 40Amp  
Input: 4 to 20mA (Impedance = 100E)  
: 0-10VDC (Impedance = 560E)  
Specify Input according to last 3-digit While  
Placing Order as both input SSR are different:  
MODEL CODE: 420 = 4-20mA Input  
: 010 = 0-10VDC Input  
Output : 230VAC (47-63 Hz)  
PIV : 800Vpk, I<sup>T</sup> : 880A<sup>2</sup>S for 9.6mS  
Body isolation : 4kV for 1min  
I/P. to O/P. isolation : 6kV for 1min  
Inbuilt surge voltage protection of 2700Vrms  
Load Current : 12AMP @40 °C  
Without Heat Sink

**40AMP- MODEL 901 PHT 24 40 420 AL5 WITH "G-68" H.S.**



Weight: 110gms SSR +  
95gms G-68 Heat sink

Model 901 - 40Amp  
Input: 4 to 20mA (Impedance = 100E)  
: 0-10VDC (Impedance = 560E)  
Specify Input according to last 3-digit While  
Placing Order as both input SSR are different:  
MODEL CODE: 420 = 4-20mA Input  
: 010 = 0-10VDC Input  
Output : 230VAC (47-63 Hz)  
PIV : 800Vpk, I<sup>T</sup> : 880A<sup>2</sup>S for 9.6mS  
Body isolation : 4kV for 1min  
I/P. to O/P. isolation : 6kV for 1min  
Inbuilt surge voltage protection of 2700Vrms  
Load Current : 18AMP @40 °C  
With Heat Sink G-68+Din

**50AMP- MODEL 901 PHT 24 50 420 AL5**



Weight: 110gms SSR +  
20gms Din Rail = 130gms

Model 901 - 50Amp  
Input: 4 to 20mA (Impedance = 100E)  
: 0-10VDC (Impedance = 560E)  
Specify Input according to last 3-digit While  
Placing Order as both input SSR are different:  
MODEL CODE: 420 = 4-20mA Input  
: 010 = 0-10VDC Input  
Output : 230VAC (47-63 Hz)  
Short Circuit Protection by "B" Curve DP MCB  
15Amp Load Current/16Amp "B" Curve DP MCB  
PIV : 1200Vpk, I<sup>T</sup> : 3000A<sup>2</sup>S for 9.6mS  
Body isolation : 4kV for 1min  
I/P. to O/P. isolation : 6kV for 1min  
Inbuilt surge voltage protection of 2700Vrms  
Load Current : 12AMP @40 °C Without Heat Sink  
Short Circuit Current Rating : 10kA for <3mS

**50AMP- MODEL 901 PHT 24 50 420 C56**



Weight: 140gms SSR +  
57 gms C56 Heat sink + Din Rail

Model 901 - 50Amp  
Input: 4 to 20mA (Impedance = 100E)  
: 0-10VDC (Impedance = 560E)  
Specify Input according to last 3-digit While  
Placing Order as both input SSR are different:  
MODEL CODE: 420 = 4-20mA Input  
: 010 = 0-10VDC Input  
Output : 230VAC (47-63 Hz)  
Short Circuit Protection by "B" Curve DP MCB  
15Amp Load Current/16Amp "B" Curve DP MCB  
PIV : 1200Vpk, I<sup>T</sup> : 3000A<sup>2</sup>S for 9.6mS  
Body isolation : 4kV for 1min  
I/P. to O/P. isolation : 6kV for 1min  
Inbuilt surge voltage protection of 2700Vrms  
Load Current : 16AMP @40 °C With Inbuilt Heat Sink C-56+Din  
Short Circuit Current Rating : 10kA for <3mS

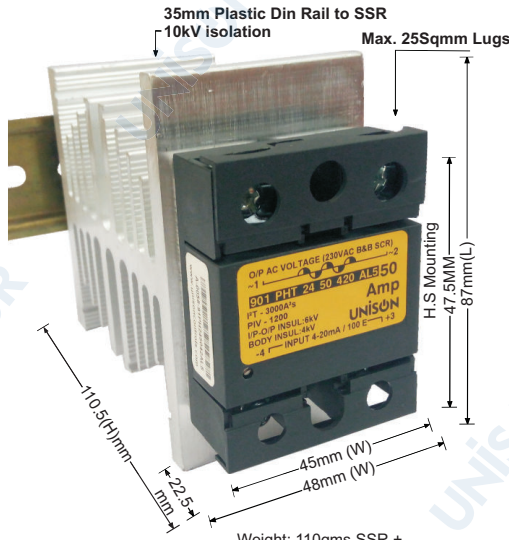
# PHASE ANGLE CONTROLLER SSR I/P. 4-20mA/0-10VDC - MODEL 901

## 50AMP- MODEL 901 PHT 24 50 420 AL5 WITH "G-68" H.S.



Model 901 - 50Amp  
 Input: 4 to 20mA (Impedance = 100E)  
 : 0-10VDC (Impedance = 560E)  
 Specify Input according to last 3-digit While  
 Placing Order as both input SSR are different:  
 MODEL CODE: 420 = 4-20mA Input  
 : 010 = 0-10VDC Input  
 Output : 230VAC (47-63 Hz)  
 Short Circuit Protection by "B" Curve DP MCB  
 15Amp Load Current/16Amp "B" Curve DP MCB  
 PIV : 1200Vpk, I<sub>T</sub> : 3000A<sup>2</sup>S for 9.6mS  
 Body isolation : 4kV for 1min  
 I/P. to O/P. isolation : 6kV for 1min  
 Inbuilt surge voltage protection of 2700Vrms  
 Load Current : 26AMP @40 °C With Heat Sink G-68+Din  
 Short Circuit Current Rating : 10kA for <3mS

## 50AMP- MODEL 901 PHT 24 50 420 AL5 WITH "B-48" H.S.



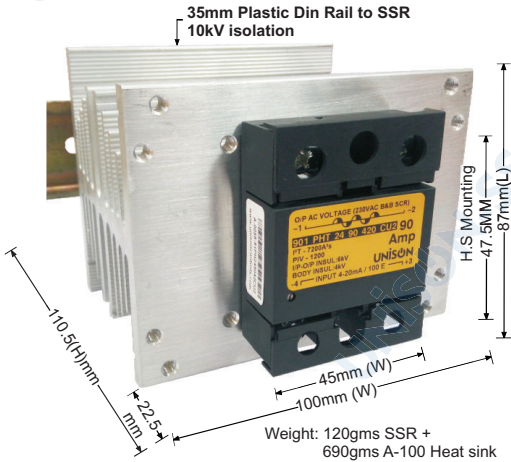
Model 901 - 50Amp  
 Input: 4 to 20mA (Impedance = 100E)  
 : 0-10VDC (Impedance = 560E)  
 Specify Input according to last 3-digit While  
 Placing Order as both input SSR are different:  
 MODEL CODE: 420 = 4-20mA Input  
 : 010 = 0-10VDC Input  
 Output : 230VAC (47-63 Hz)  
 Short Circuit Protection by "B" Curve DP MCB  
 15Amp Load Current/16Amp "B" Curve DP MCB  
 PIV : 1200Vpk, I<sub>T</sub> : 3000A<sup>2</sup>S for 9.6mS  
 Body isolation : 4kV for 1min  
 I/P. to O/P. isolation : 6kV for 1min  
 Inbuilt surge voltage protection of 2700Vrms  
 Load Current : 32AMP @40 °C With Heat Sink B-48+Din  
 Short Circuit Current Rating : 10kA for <3mS

## 90AMP- MODEL 901 PHT 24 90 420 CU2 WITH "B-48" H.S.



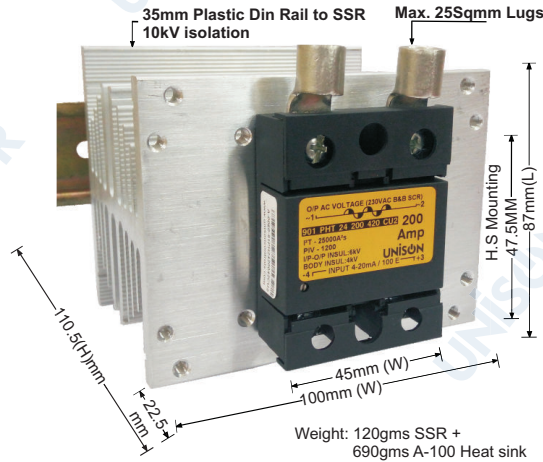
Model 901 - 90Amp  
 Input: 4 to 20mA (Impedance = 100E)  
 : 0-10VDC (Impedance = 560E)  
 Specify Input according to last 3-digit While  
 Placing Order as both input SSR are different:  
 MODEL CODE: 420 = 4-20mA Input  
 : 010 = 0-10VDC Input  
 Output : 230VAC (47-63 Hz)  
 Short Circuit Protection by "B" Curve DP MCB  
 63Amp Load Current/63Amp "B" Curve DP MCB  
 PIV : 1200Vpk, I<sub>T</sub> : 7200A<sup>2</sup>S for 9.6mS  
 Body isolation : 4kV for 1min  
 I/P. to O/P. isolation : 6kV for 1min  
 Inbuilt surge voltage protection of 2700Vrms  
 Load Current : 36Amp @40 °C With Heat Sink B-48+Din  
 Short Circuit Current Rating : 10kA for <3mS

## 90AMP- MODEL 901 PHT 24 90 420 CU2 WITH "A-100" H.S.



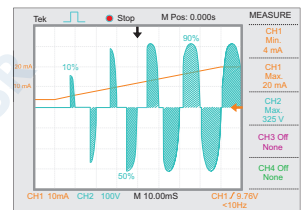
Model 901 - 90Amp  
 Input: 4 to 20mA (Impedance = 100E)  
 : 0-10VDC (Impedance = 560E)  
 Specify Input according to last 3-digit While  
 Placing Order as both input SSR are different:  
 MODEL CODE: 420 = 4-20mA Input  
 : 010 = 0-10VDC Input  
 Output : 230VAC (47-63 Hz)  
 Short Circuit Protection by "B" Curve DP MCB  
 63Amp Load Current/63Amp "B" Curve DP MCB  
 PIV : 1200Vpk, I<sub>T</sub> : 7200A<sup>2</sup>S for 9.6mS  
 Body isolation : 4kV for 1min  
 I/P. to O/P. isolation : 6kV for 1min  
 Inbuilt surge voltage protection of 2700Vrms  
 Load Current : 65Amp @40 °C With Heat Sink A-100+Din  
 Short Circuit Current Rating : 10kA for <3mS

## 200AMP- MODEL 901 PHT 24 200 420 CU2 WITH "A-100" H.S.

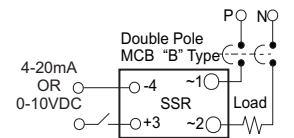


Model 901 - 200Amp  
 Input: 4 to 20mA (Impedance = 100E)  
 : 0-10VDC (Impedance = 560E)  
 Specify Input according to last 3-digit While  
 Placing Order as both input SSR are different:  
 MODEL CODE: 420 = 4-20mA Input  
 : 010 = 0-10VDC Input  
 Output : 230VAC (47-63 Hz)  
 Short Circuit Protection by "B" Curve DP MCB  
 115Amp Load Current/125Amp "B" Curve DP MCB  
 PIV : 1200Vpk, I<sub>T</sub> : 25000A<sup>2</sup>S for 9.6mS  
 Body isolation : 4kV for 1min  
 I/P. to O/P. isolation : 6kV for 1min  
 Inbuilt surge voltage protection of 2700Vrms  
 Load Current : 80 Amp @40 °C With Heat Sink A-100+Din  
 Short Circuit Current Rating : 10kA for <3mS

### Analog Phase Angle Controller Waveform



### CONNECTION DIAGRAM ANALOG PHT



### SSR Connection Diagram Resistive Load

External MCB, Protects SSR During the Short Circuit, and Over Load for AC-53a current duty.

# PHASE ANGLE CONTROLLER SSR I/P. 4-20mA/0-10VDC - MODEL 901

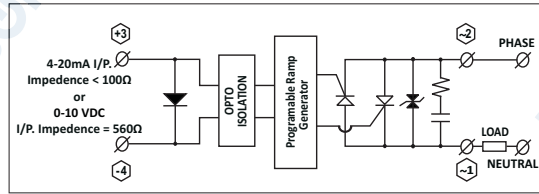
90AMP-MODEL 901 PHT 24 90 420 CU2- 3Nos. SSR  
"A-190" H.S. WITH 230VAC FAN



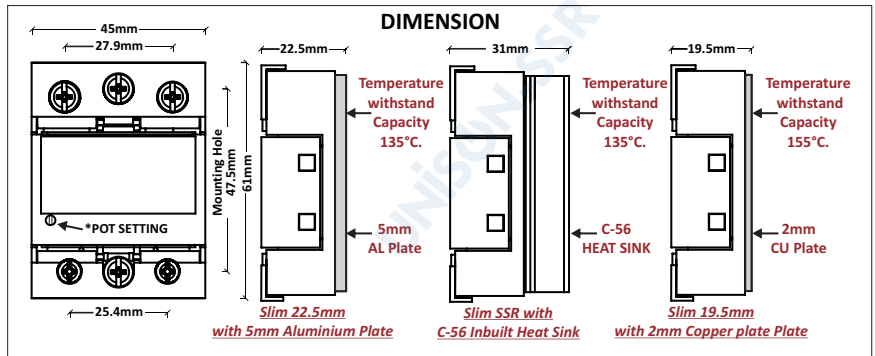
190mm(W) Heat sink + 25mm Fan  
Plastic Bush for 10kVA Isolation

Model 901 - 90Amp  
Input: 4 to 20mA (Impedance = 100Ω)  
: 0-10VDC (Impedance = 560Ω)  
Specify Input according to last 3-digit While  
Placing Order as both input SSR are different:  
MODEL CODE: 420 = 4-20mA Input  
: 010 = 0-10VDC Input  
Output : 230VAC (47-63 Hz)  
Short Circuit Protection by "B" Curve DP MCB  
63Amp Load Current/63Amp "B" Curve DP MCB  
PIV : 1200Vpk, I<sup>T</sup> : 7200A<sup>2</sup>S for 9.6mS  
Body isolation : 4kV for 1min  
I/P. to O/P. isolation : 6kV for 1min  
Inbuilt surge voltage protection of 2700Vrms  
Load Current : 120Amp @40 °C (40Amp X 3 SSR)  
With Heat Sink A-190+FAN  
Short Circuit Current Rating : 10kA for <3mS

## BLOCK DIAGRAM ANALOG PHASE ANGLE CONTROLLER - TIME BASE

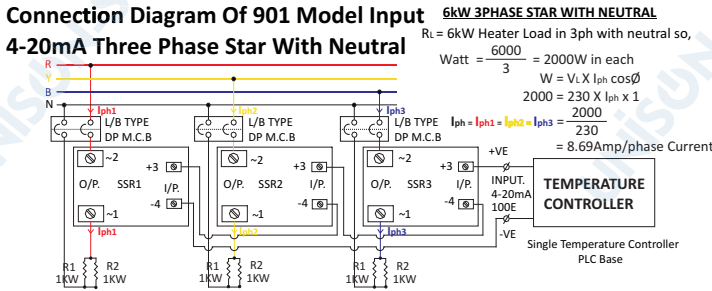


\*Input 4-20mA & 0-10 VDC both are different.  
Please see ordering format for differentiation.



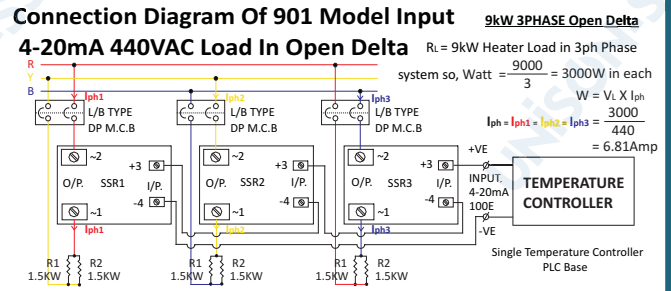
## ANALOG PHASE ANGLE CONTROLLER TIME BASE TYPE SSR Connection Diagram

### Connection Diagram Of 901 Model Input 4-20mA Three Phase Star With Neutral



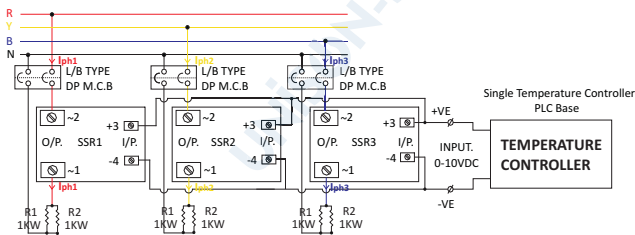
\* Phase Angle Controller SSR will not work star without neutral

### Connection Diagram Of 901 Model Input 4-20mA 440VAC Load In Open Delta



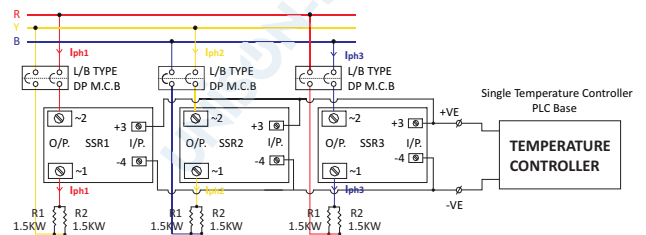
\* Phase Angle Control SSR will not work in close delta configuration

### Connection Diagram Of 901 Model Input 0-10VDC Three Phase Star With Neutral



\* Phase Angle Controller SSR will not work star without neutral

### Connection Diagram Of 901 Model Input 0-10VDC 440VAC Load In Open Delta



\* Phase Angle Control SSR will not work in close delta configuration