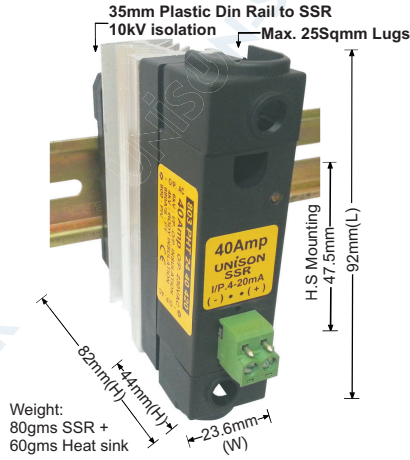


PHASE ANGLE CONTROLLER SSR I/P. 4-20mA/0-10VDC - MODEL 803

**25AMP-MODEL 803 PHT 24 25 420
WITH "V-87" H.S.**



**40AMP-MODEL 803 PHT 24 40 420
WITH "V-87" H.S.**



**50AMP-MODEL 803 PHT 24 50 420
WITH "V-87" H.S.**



Model 803 - 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^T : 340A²S for 9.6mS
Body isolation : 4kV for 1min
I/P. to O/P. isolation : 6kV for 1min
Load Current : 18Amp @40 °C
With Heat Sink V-87+Din

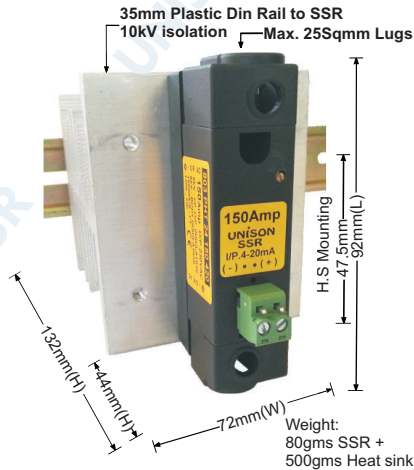
Model 803 - 40Amp
Input: 4 to 20mA (Impedance = 100E)
: 0-10VDC (Impedance = 560E)
Specify Input according to last 3-digit While
Placing Order as both input SSR are different:
MODEL CODE: 420 = 4-20mA Input
: 010 = 0-10VDC Input
Output : 230VAC (47-63 Hz)
PIV : 800Vpk, I^T : 880A²S for 9.6mS
Body isolation : 4kV for 1min
I/P. to O/P. isolation : 6kV for 1min
1.) Load Current : 20Amp @ 40 °C
With Heat Sink V-87+DIN
2.) Load Current : 30Amp @ 40 °C
With Heat Sink B-24+DIN

Model 803 - 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 DP "B" Curve DP MCB
PIV : 1200Vpk, I^T : 3000A²S for 9.6mS
Body isolation : 4kV for 1min
I/P. to O/P. isolation : 6kV for 1min
1.) Load Current : 22Amp @ 40 °C
With Heat Sink V-87+Din
2.) Load Current : 30Amp @ 40 °C
With Heat Sink B-24+Din
Short Circuit Current Rating : 10KA for <3mS

**90AMP-MODEL 803 PHT 24 90 420
WITH "B-24" H.S.**



**150AMP-MODEL 803 PHT 24 150 420
WITH "B-72" H.S.**



**200AMP-MODEL 803 PHT 44 200 420
WITH "B-24" H.S.**



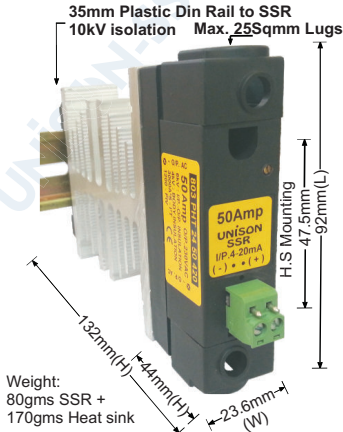
Model 803 - 90Amp
Input: 4 to 20mA (Impedance = 100E)
: 0-10VDC (Impedance = 560E)
Specify Input according to last 3-digit While
Placing Order as both input SSR are different:
MODEL CODE: 420 = 4-20mA Input
: 010 = 0-10VDC Input
Output : 230VAC (47-63 Hz)
Short Circuit Protection by "B" Curve DP MCB.
63Amp Load Current/63Amp "B" Curve DP MCB
PIV : 1200Vpk, I^T : 7200A²S for 9.6mS
Body isolation : 4kV for 1min
I/P. to O/P. isolation : 6kV for 1min
1.) Load Current : 34Amp @ 40 °C
With Heat Sink B-24+Din
2.) Load Current : 60Amp @ 40 °C
With Heat Sink B-72+Din
Short Circuit Current Rating : 10kA for <3mS

Model 803 - 150Amp
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
80Amp Load Current/80Amp DP "B" Curve DP MCB
PIV : 1200Vpk
I^T : 15000A²S for 9.6mS
Body isolation : 4kV for 1min
I/P. to O/P. isolation : 6kV for 1min
1.) Load Current : 40Amp @ 40 °C
With Heat Sink B-24+Din
2.) Load Current : 58Amp @ 40 °C
With Heat Sink B-72+Din
Short Circuit Current Rating : 10KA for <3mS

Model 803 - 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 : 440VAC (47-63 Hz)
Short Circuit Protection by "B" Curve DP MCB
115Amp Load Current/125Amp DP "B" Curve DP MCB
PIV : 1200Vpk
I^T : 25000A²S for 9.6mS
Body isolation : 4kV for 1min
I/P. to O/P. isolation : 6kV for 1min
1.) Load Current : 45Amp @ 40 °C
With Heat Sink B-24+Din
1.) Load Current : 63Amp @ 40 °C
With Heat Sink B-72+Din
Short Circuit Current Rating : 10KA for <3mS

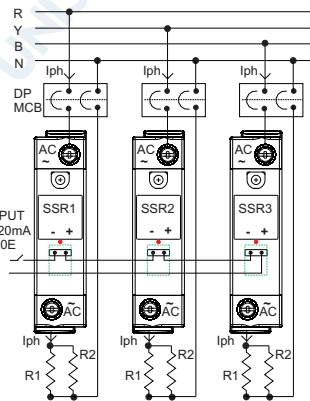
PHASE ANGLE CONTROLLER SSR I/P. 4-20mA/0-10VDC - MODEL 803

50AMP-MODEL 803 PHT 24 50 420 WITH "B-24" H.S.

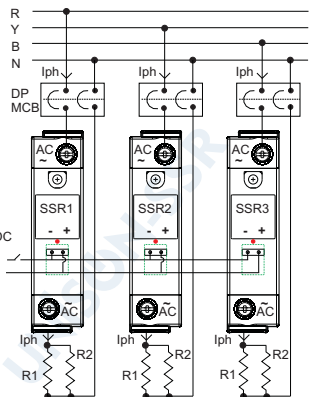


Model 803 - 50Amp
 Input: 4 to 20mA (Impedance = 100E)
 : 0-10VDC (Impedance = 560E)
 Specify Input according to last 3-digit While
 Placing Order as both input SSR are different:
 MODEL CODE: 420 = 4-20mA Input
 : 010 = 0-10VDC Input
 Output : 230VAC (47-63 Hz)
 Short Circuit Protection by "B" Curve DP MCB
 15Amp Load Current/16Amp "B" Curve DP MCB
 PIV : 1200Vpk, I²T : 3000A²S for 9.6mS
 Body isolation : 4kV for 1min
 I/P. to O/P. isolation : 6kV for 1min
 1.) Load Current : 22AMP @ 40 °C
 With Heat Sink V-87+Din
 2.) Load Current : 30AMP @ 40 °C
 With Heat Sink B-24+Din
 3.) Load Current : 40AMP @ 40 °C
 With Heat Sink B-72+Din
 Short Circuit Current Rating : 10kA for <3mS

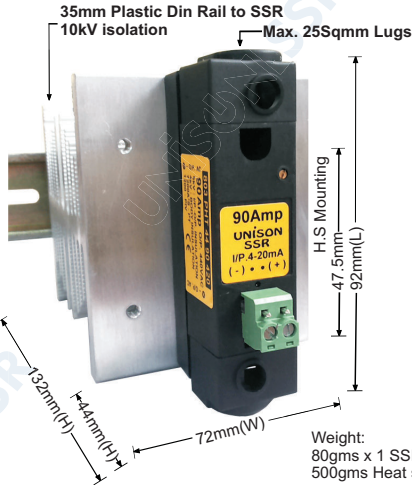
Circuit diagram 803 model - Input 4-20mA Three Phase Star Connection with neutral



Circuit diagram 803 model - Input 0-10VDC Three Phase Star Connection with neutral

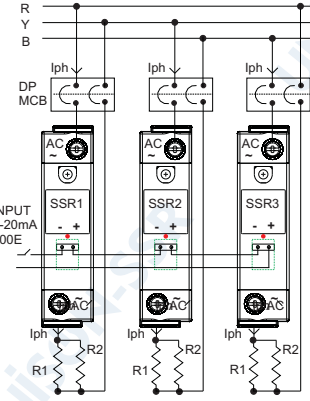


90AMP-MODEL 803 PHT 44 90 420 WITH "B-72" H.S.

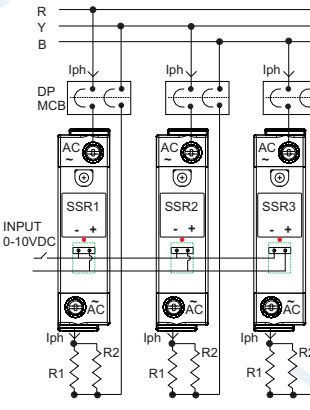


Model 803 - 90Amp
 Input: 4 to 20mA (Impedance = 100E)
 : 0-10VDC (Impedance = 560E)
 Specify Input according to last 3-digit While
 Placing Order as both input SSR are different:
 MODEL CODE: 420 = 4-20mA Input
 : 010 = 0-10VDC Input
 Output : 440VAC (47-63 Hz)
 Short Circuit Protection by "B" Curve DP MCB.
 63Amp Load Current/63Amp "B" Curve DP MCB
 PIV : 1200Vpk, I²T : 7200A²S for 9.6mS
 Body isolation : 4kV for 1min
 I/P. to O/P. isolation : 6kV for 1min
 1.) Load Current : 38Amp @ 40 °C With Heat Sink B-24+Din
 2.) Load Current : 60Amp @ 40 °C With Heat Sink B-72+Din
 Short Circuit Current Rating : 10kA for <3mS

Circuit diagram 803 model - Input 4-20mA 440VAC LOAD IN OPEN DELTA



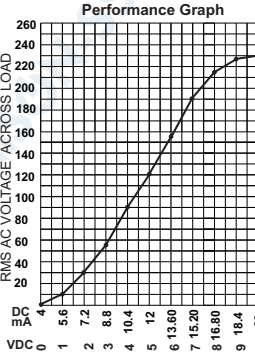
Circuit diagram 803 model - Input 0-10VDC 440VAC LOAD IN OPEN DELTA



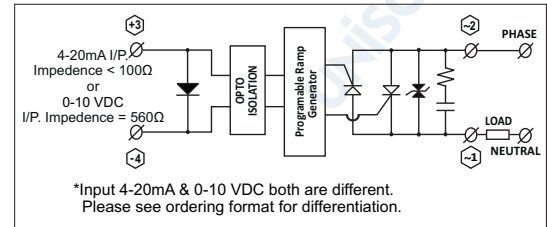
200AMP-MODEL 803 PHT 24 200 420 WITH "B-72" H.S.



Model 803 - 200Amp - 2 Nos.
 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 DP "B" Curve DP MCB
 PIV : 1200Vpk
 I²T : 25000A²S for 9.6mS
 Body isolation : 4kV for 1min
 I/P. to O/P. isolation : 6kV for 1min
 Load Current : 33AMP X 2Nos. = 66AMP @ 40°C
 With Heat Sink B-72+Din
 Short Circuit Current Rating : 10kA for <3mS

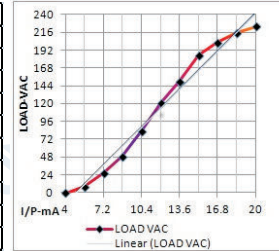


BLOCK DIAGRAM ANALOG PHASE ANGLE CONTROLLER



Practical Single Phase waveform

803 PHT 24 90 420			
INPUT mA	SSR VAC	LOAD VAC	
4	238	0.149	
5.6	231	7.9	
7.2	215	26	
8.8	191	49.3	
10.4	158.2	82.5	
12	120	120.7	
13.6	91	150.2	
15.2	54.4	184.8	
16.8	30.5	203	



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Practical Three Phase waveform

Testing Data	SSR-1 (R Control by SSR-Y Phase)		SSR-2 (Y Control by SSR-B Phase)		SSR-3 (B Control by SSR-R Phase)	
	R	I	Y	I	B	I
Supply Voltage	R-Y = 356V		Y-B = 348V		B-R = 348V	
Connected Load	600 Watt		600 Watt		600 Watt	
mA	R	I	Y	I	B	I
4	0	0	0	0	0	0
6	15	0	14	0	15	0
8	60	0.2	56	0.2	55	0.1
10	120	0.4	113	0.4	114	0.3
12	178	0.6	174	0.6	174	0.5
14	245	0.8	240	0.8	240	0.7
16	305	0.9	290	0.9	296	0.9
18	335	1	321	1	322	0.9
20	350	1	340	1	340	1

