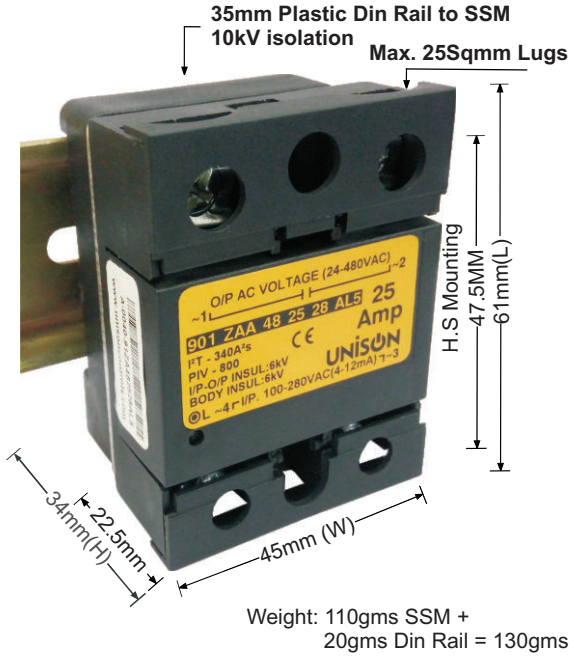
AC TO AC SOLID STATE MODULE - MODEL 901

25AMP- MODEL 901 ZAA 48 25 28 AL5



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

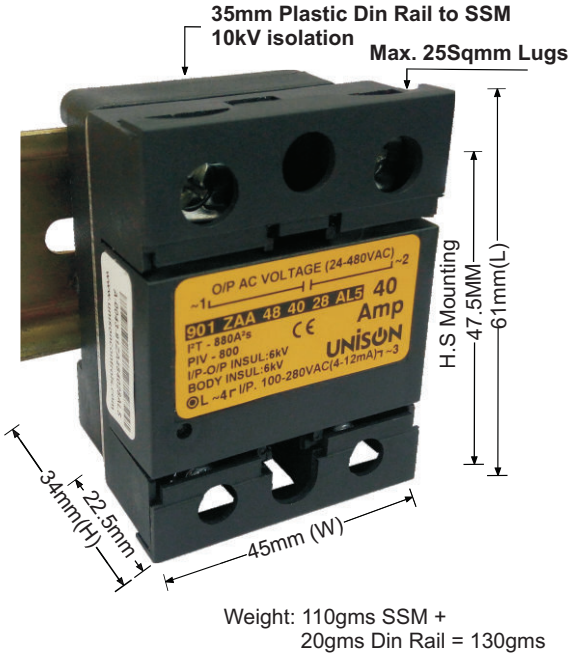
Model 901 - 25Amp
Zero Cross Over SSM
Input : 100-280 VAC / 4-12 mA
Input LED Indication : Green
Output : 24-480VAC
Output Frequency : 47-63 Hz
PIV : 800Vpk, I²T : 340A²S for 9.6mS
Body isolation : 6kV for 1min
I/P. to O/P. isolation : 6kV for 1min
Inbuilt surge voltage protection of 2700Vrms
Load Current : 10AMP @40 °C
Without Heat Sink + Din rail

25AMP- MODEL 901 ZAA 48 25 28 AL5 WITH "G-68" H.S.

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

Model 901 - 25Amp
Zero Cross Over SSM
Input : 100-280 VAC / 4-12 mA
Input LED Indication : Green
Output : 24-480VAC
Output Frequency : 47-63 Hz
PIV : 800Vpk, I²T : 340A²S for 9.6mS
Body isolation : 6kV 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

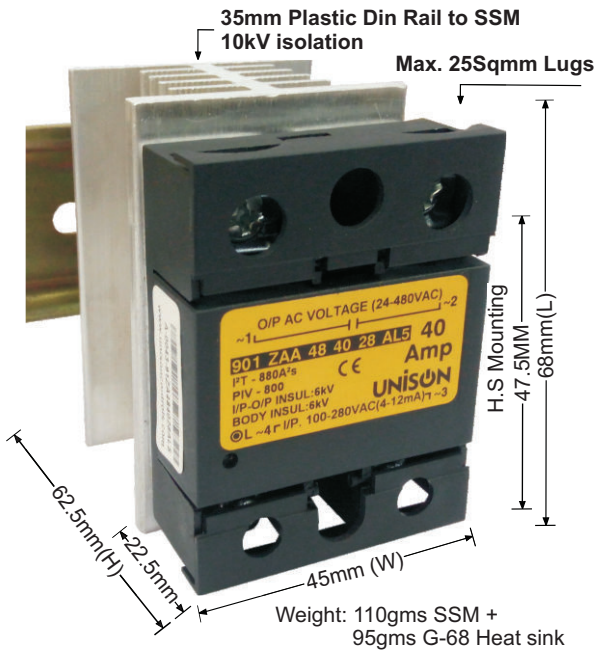
40AMP- MODEL 901 ZAA 48 40 28 AL5



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

Model 901 - 40Amp
Zero Cross Over SSM
Input : 100-280 VAC / 4-12 mA
Input LED Indication : Green
Output : 24-480VAC
Output Frequency : 47-63 Hz
PIV : 800Vpk, I²T : 880A²S for 9.6mS
Body isolation : 6kV 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

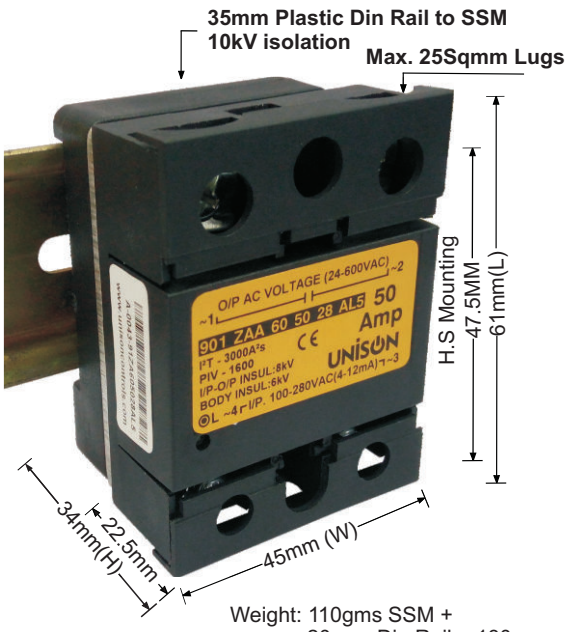
40AMP- MODEL 901 ZAA 48 40 28 AL5 WITH "G-68" H.S.



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

Model 901 - 40Amp
Zero Cross Over SSM
Input : 100-280 VAC / 4-12 mA
Input LED Indication : Green
Output : 24-480VAC
Output Frequency : 47-63 Hz
PIV : 800Vpk, I²T : 880A²S for 9.6mS
Body isolation : 6kV 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

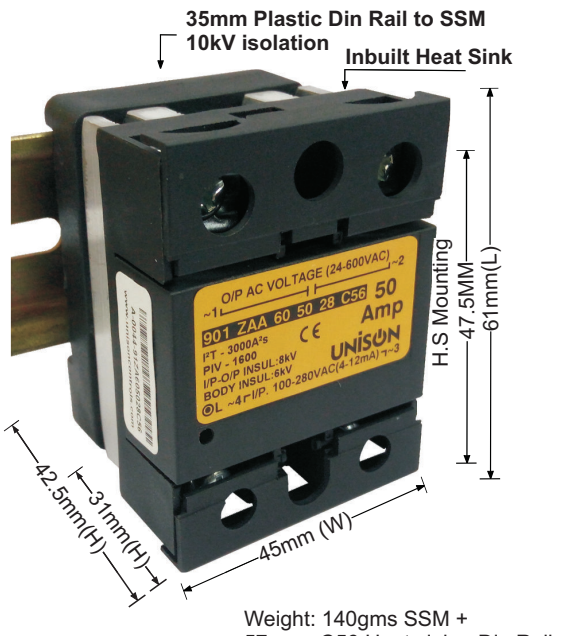
50AMP- MODEL 901 ZAA 60 50 28 AL5



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

Model 901 - 50Amp
Zero Cross Over SSM
Input : 100-280 VAC / 4-12 mA
Input LED Indication : Green
Output : 24-480VAC
Output Frequency : 47-63 Hz
Short Circuit Protection by "B" Curve DP MCB
15Amp Load Current/16Amp DP "B" Curve DP MCB
PIV : 1600Vpk, I²T : 3000A²S for 9.6mS
Body isolation : 6kV for 1min
I/P. to O/P. isolation : 8kV 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 ZAA 60 50 28 C56



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

Model 901 - 50Amp
Zero Cross Over SSM
Input : 100-280 VAC / 4-12 mA
Input LED Indication : Green
Output : 24-480VAC
Output Frequency : 47-63 Hz
Short Circuit Protection by "B" Curve DP MCB
15Amp Load Current/16Amp DP "B" Curve DP MCB
PIV : 1600Vpk, I²T : 3000A²S for 9.6mS
Body isolation : 6kV for 1min
I/P. to O/P. isolation : 8kV 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

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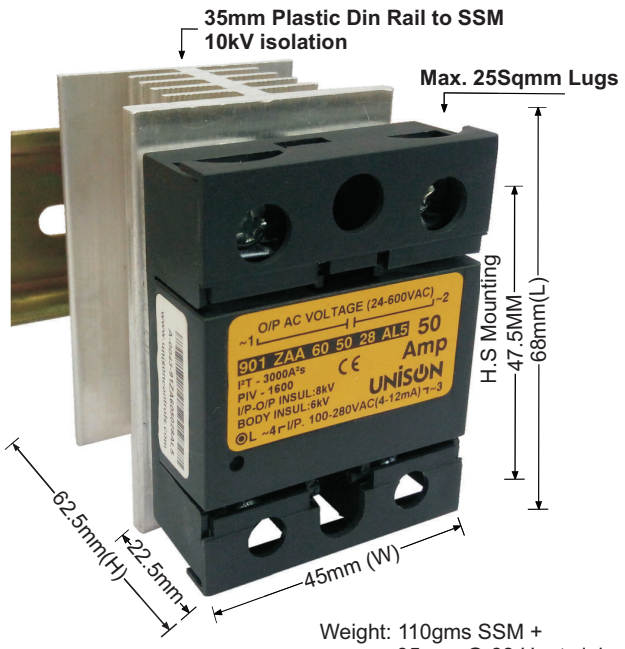
DC TO AC SOLID STATE MODULE - MODEL 901

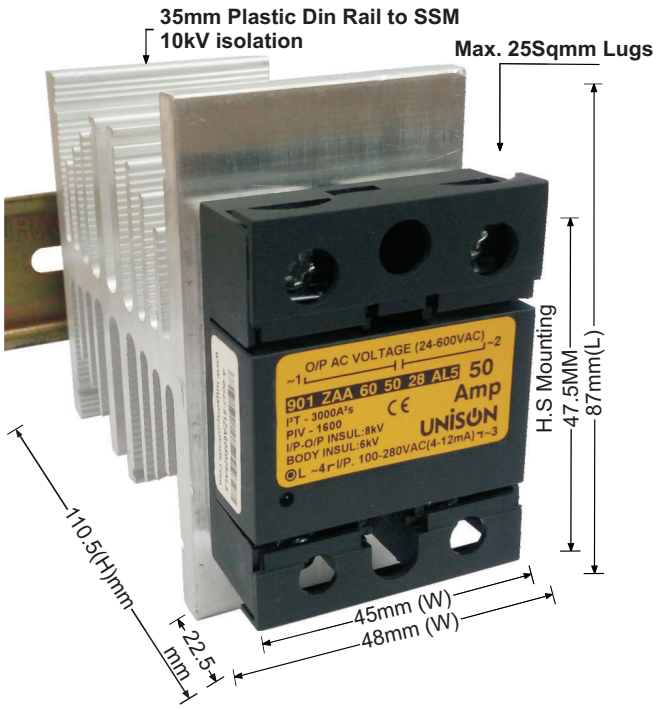
50AMP- MODEL 901 ZAA 60 50 28 AL5 WITH "G-68" H.S.



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

Model 901 - 50Amp
Zero Cross Over SSM
Input : 100-280 VAC / 4-12 mA
Input LED Indication : Green
Output : 24-480VAC
Output Frequency : 47-63 Hz
Short Circuit Protection by "B" Curve DP MCB
15Amp Load Current/16Amp DP "B" Curve DP MCB
PIV : 1600Vpk, I²T : 3000A²S for 9.6mS
Body isolation : 6kV for 1min
I/P. to O/P. isolation : 8kV 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

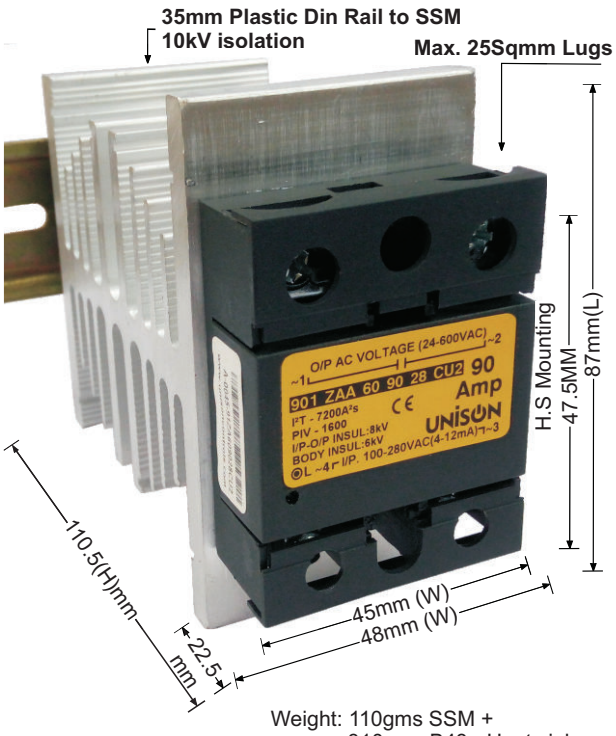
50AMP- MODEL 901 ZAA 60 50 28 AL5 WITH "B-48" H.S.



Weight: 110gms SSM +
310gms B48 - Heat sink

Model 901 - 50Amp
Zero Cross Over SSM
Input : 100-280 VAC / 4-12 mA
Input LED Indication : Green
Output : 24-480VAC
Output Frequency : 47-63 Hz
Short Circuit Protection by "B" Curve DP MCB
15Amp Load Current/16Amp DP "B" Curve DP MCB
PIV : 1600Vpk, I²T : 3000A²S for 9.6mS
Body isolation : 6kV for 1min
I/P. to O/P. isolation : 8kV 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

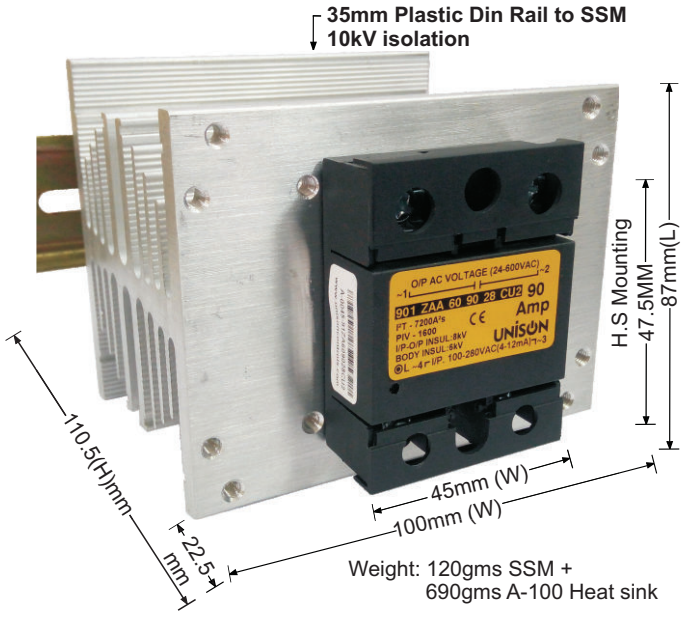
90AMP- MODEL 901 ZAA 60 90 28 CU2 WITH "B-48" H.S.



Weight: 110gms SSM +
310gms B48 - Heat sink

Model 901 - 90Amp
Zero Cross Over SSM
Input : 100-280 VAC / 4-12 mA
Input LED Indication : Green
Output : 24-480VAC
Output Frequency : 47-63 Hz
Short Circuit Protection by "B" Curve DP MCB
63Amp Load Current/63Amp DP "B" Curve DP MCB
PIV : 1600Vpk, I²T : 7200A²S for 9.6mS
Body isolation : 6kV for 1min
I/P. to O/P. isolation : 8kV 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

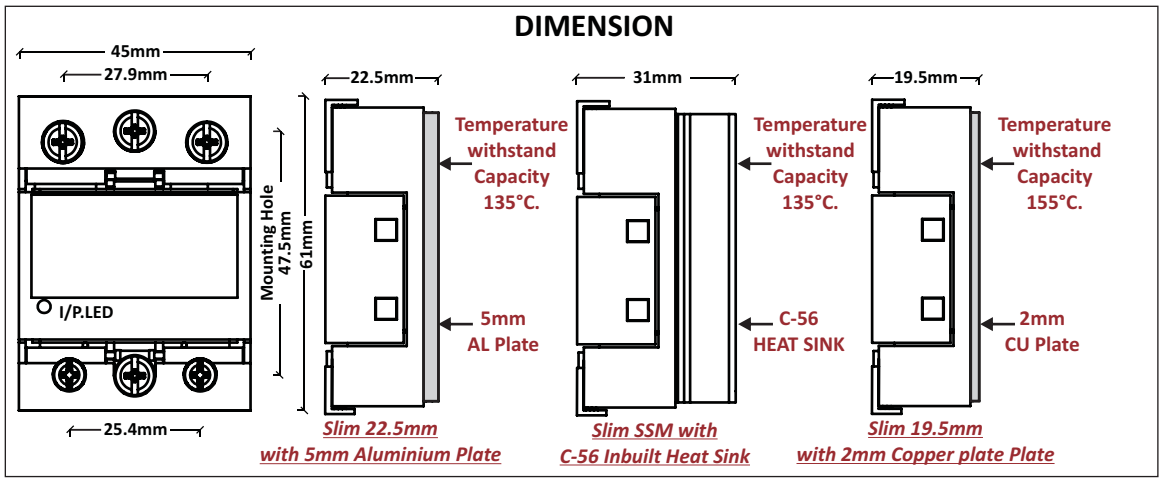
90AMP- MODEL 901 ZAA 60 90 28 CU2 WITH "A-100" H.S.



Weight: 120gms SSM +
690gms A-100 Heat sink

Model 901 - 90Amp
Zero Cross Over SSM
Input : 100-280 VAC / 4-12 mA
Input LED Indication : Green
Output : 24-480VAC
Output Frequency : 47-63 Hz
Short Circuit Protection by "B" Curve DP MCB
63Amp Load Current/63Amp DP "B" Curve DP MCB
PIV : 1600Vpk, I²T : 7200A²S for 9.6mS
Body isolation : 6kV for 1min
I/P. to O/P. isolation : 8kV 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

DIMENSION



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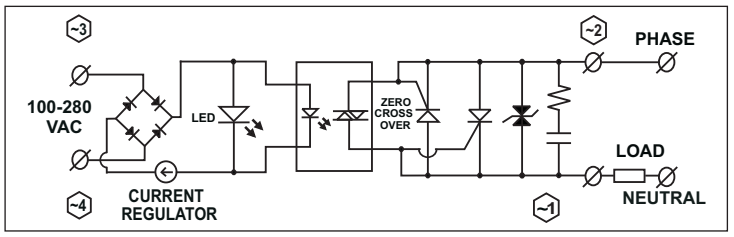
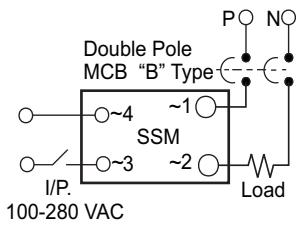
DC TO AC SOLID STATE MODULE - MODEL 901

BLOCK DIAGRAM
ZAA- ZERO CROSS OVER AC TO AC



- ⇨ INBUILT Snubber for protect the Harmonic & Power Factor.
- ⇨ INBUILT TVS protect Surge Voltage.

CONNECTION DIAGRAM
ZAA

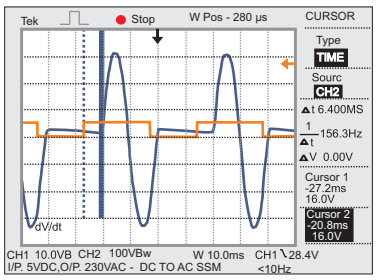


SSM Connection Diagram

Resistive Load

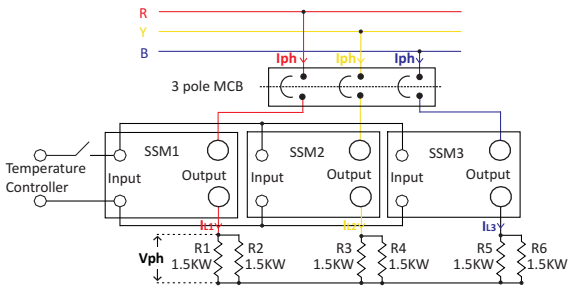
External MCB, Protects SSM During the Short Circuit and Over Load for AC-53a current duty.

Zero Crossover Waveform - Output



ON/OFF TYPE SSM Connection Diagram

Circuit diagram 901 model - ON/OFF type Star Connection without neutral



9KW 3PHASE STAR WITH OUT NEUTRAL

$W=\sqrt{3}$ X VL X IL cosØ

9000W=1.73x415Vrms X IL X 0.99

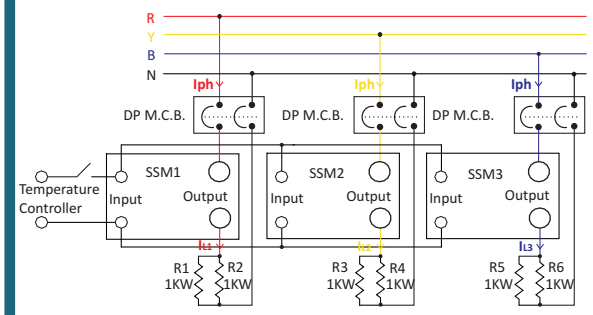
IL1 = $\frac{9000}{1.73X415X0.99}$ = 12.66Amp Per Phase Current

IL2 = $\frac{9000}{1.73X415X0.99}$ = 12.66Amp Per Phase Current

IL3 = $\frac{9000}{1.73X415X0.99}$ = 12.66Amp Per Phase Current

Iph = IL1 = IL2 = IL3 = 12.66Amp

Circuit diagram 901 model - ON/OFF type Star Connection with neutral



6KW 3PHASE STAR WITH NEUTRAL

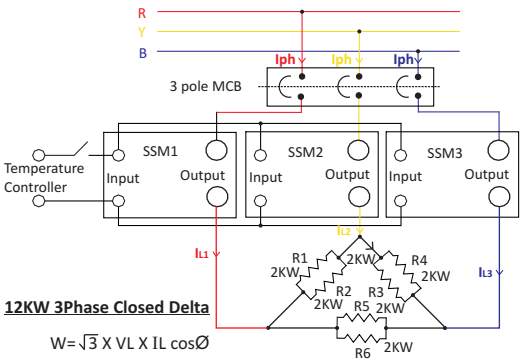
Current = $\frac{2000}{230}$ = 8.69Amp

IL1 = 8.69Amp (R) Phase Current

IL2 = 8.69Amp (Y) Phase Current

IL3= 8.69Amp (B) Phase Current

Circuit diagram 901 model - ON/OFF type Closed Delta Connection



12KW 3Phase Closed Delta

$W=\sqrt{3}$ X VL X IL cosØ

12000W=1.73x415Vrms X IL X 0.99

IL1 = $\frac{12000}{1.73X415X0.99}$ = 16.88Amp Per Phase Current

Iph = $\frac{16.88}{1.73}$

IL2 = $\frac{12000}{1.73X415}$ = 16.88Amp Per Phase Current

Iph = 9.75Amp

IL3 = $\frac{12000}{1.73X415X0.99}$ = 16.88Amp Per Phase Current

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