



- Real Time Dynamic Power Factor Correction
- Integrated CT for motoring and protection of current, power and harmonics in the capacitor banks
- Programmable protection thresholds
- Programmable relay output for alarm signalling or fan control
- Monitoring and diagnostics of the integrated fan
- NFC Enabled for convenient programming of the parameters via smartphone and tablet
- Can be controlled via the serial port using the optional RS-485 port with the combination of the REALCOMP Controller
- Compatible with the mobile app for viewing measurements, events and active alarms and for sending commands and configuring parameters
- Silent operation as the switching of capacitors is managed electronically
- Switching ON at zero-crossing
- Overtemperature protection via integrated probe or an external input probe
- Monitoring and diagnostics of the integrated fan
- Supports vertical and horizontal installation
- 3 status LEDs – POWER, ON and FAULT
- Front optical port for connecting to a PC via USB or Wi-Fi

Product Detail

Series	REALCOMP
Model	Realcomp Thyristor Switching Module - 120 KVAR at 480V
Type	SCR

Technical Specifications

General Characteristics		
Rated Voltage	400V..480V	
Operating Voltage Range	340V...528V	
Rated Frequency	50/60 Hz	
Operating Frequency Range	45Hz...65Hz	
Rated Current (Ie)	144A	
Step Power at	400V AC	100 KVAR
	440V AC	110 KVAR
	480V AC	120 KVAR
Peak Inverse Voltage (PIV)	2200V AC	
Number of Controlled Phases	2 N ^o	
Control Circuit	12-24V DC input or free-voltage input or via RS485 serial port (with optional card expansion module in combination with Realcomp Controller + expansion module)	
Auxiliary Supply		
Rated Auxiliary Supply Voltage	Min	100V AC
	Max	240V AC
Auxiliary Rated Frequency	50/60 Hz	
Power Consumption	Max	14.1 VA
Power Dissipation	Max	5.8 W

Technical Specifications

Control Input		
Terminals		CONTROL +/-
Rated Voltage		12V-24V DC
Operating Range		8V...30V DC
Digital Inputs		
Terminals		C-IN1
Applied Voltage at Contact (Internal)		5V DC
Input Current		≤ 10 mA
Low Input Signal		≤ 0.8V DC
High Input Signal		≥ 3.2V DC
Input Signal Delay		≥ 50 ms
NTC Probe Input		
Terminals		NTC-NTC
Sensor Type		NTC
Measuring Range		-25°C...+85°C
Maximum Connection Length		3 mt
Fan Power Supply		
Terminals		Fan +/-
Supply Voltage (Internal)		5V DC (provided by TSM)
Fan Type		2 built-in fans
Communication		
Communication Port		RS485 (by adding the RS485 card)
Relay Outputs		
Number of Relay Output		1 N ^o
Contact Arrangement		1 C/O- SPDT
Rated Current		NO Contact : AC1 5A 250V AC / 5A 30V DC NC Contact : AC1 3A 250V AC / 3A 30V DC
Maximum Switching Voltage		250V AC
Electrical Life (with rated load)		NO Contact : 10x103 Cycles NC Contact : 20x103 Cycles
Mechanical Life		107 Cycles
Insulations		
Rated insulation voltage Ui		480V
Rated impulse withstand Voltage Uimp		4 kV
Connections - Power Terminals		
Type of Terminal		Bars - 25x5mm 11 mm hole dia
Conductor Cross Section	Min.	50 mm ²
	Max	1 x AWG 3/0
Tightening Torque	Max	35 Nm (42Nm for lugs)
	Max	309 in-lbs (375 in-lbs for lugs)

Technical Specifications

Connections - Relay Output

Type of Terminal		Screw
Conductor Cross Section	Min.	0.2 mm ²
	Max	4 mm ²
	Min	26 AWG
	Max	10 AWG
Tightening Torque	Max	0.8 Nm
	Max	7 lbin

Connections - Fan and Digital Input

Type of Terminal		Screw
Conductor Cross Section	Min.	0.2 mm ²
	Max	2.5 mm ²
	Min	24 AWG
	Max	12 AWG
Tightening Torque	Max	0.44 Nm
	Max	4 lbin

Ambient Conditions

Operating Temperature	Min	-20°C
	Max	+45°C without derating (up to 55°C with derating)
Storage Temperature	Min	-30°C
	Max	+80°C
Relative Humidity		<80%
Maximum Pollution Degree		2
Over Voltage Category		III
Maximum Altitude		2000m without derating
Shock Resistance		15g
Vibration Resistance		0.7g

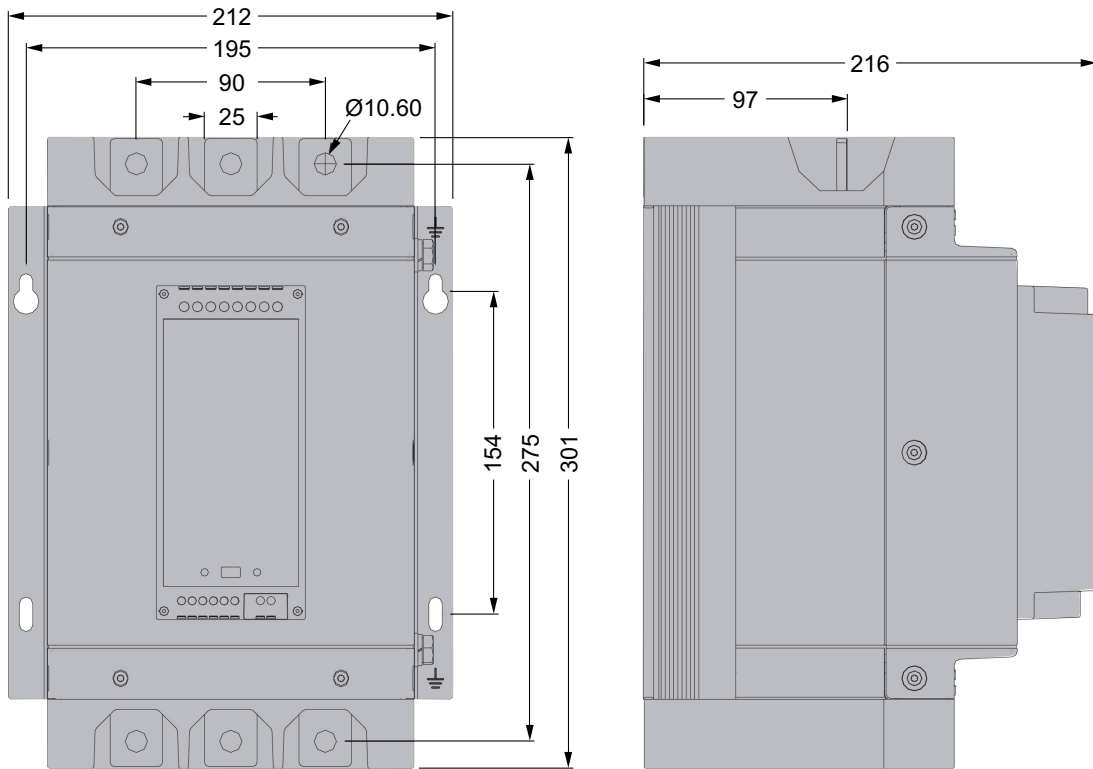
Housing

Execution		Internal Panel Version
Material		Polycarbonate
Degree of Protection		IP00
Dimensions (W x H x D) with lugs		212 mm x 301 mm x 216 mm
Dimensions (W x H x D) with terminal protection		212 mm x 468 mm x 216 mm
Weight		6680g

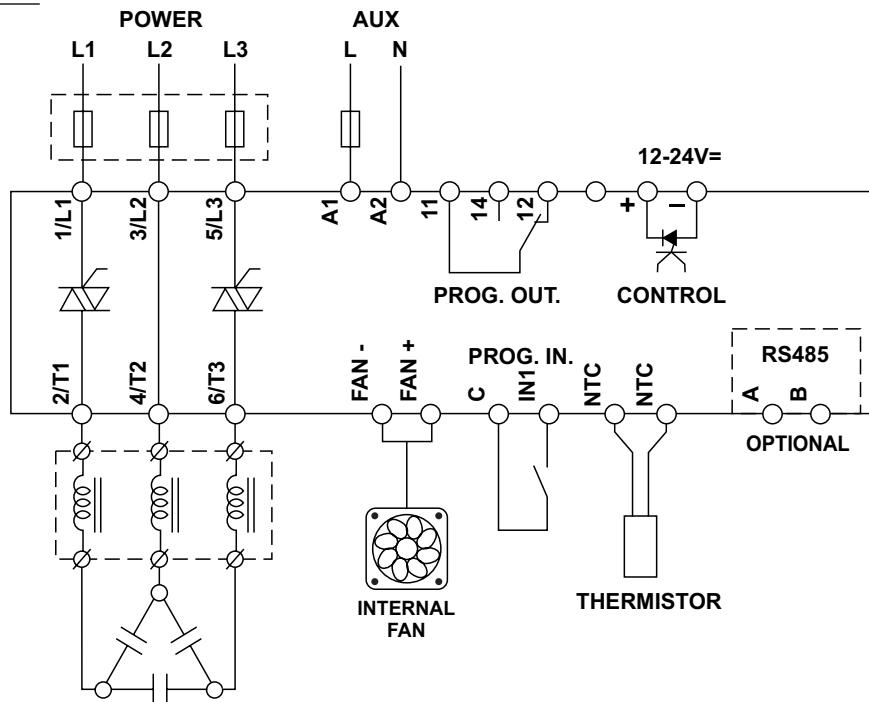
LEDs

Status LEDs		3 (POWER-ON-FAULT)
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Dimensions



Wiring Diagram



Specifications and characteristics mentioned in this document are subject to change without notification. The information in this document is purely illustrative, and not contractually binding.

Sold & Serviced in India by :

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