

SAVIK ENTERPRISES

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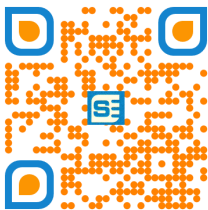
Product Brochure



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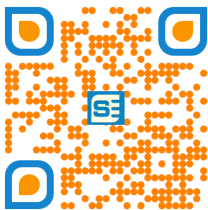
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Solid State Relay

We offer variety of Solid State Relays, which can be classified mainly in two types:
Chassis Mountable and PCB Mountable. These relays are available in various combination of current and voltage ratings.

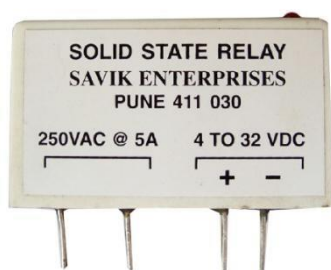


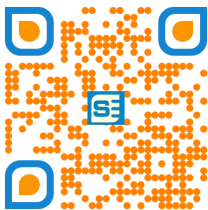
Chassis Mountable

- Available upto 75 A & 440 VAC

PCB Mountable

- Available upto 5 A AC & 5 A DC





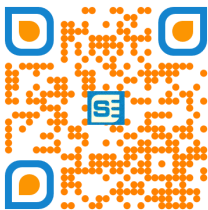
Specifications			
Sr. No.	Electrical Parameter	Value	Units
1.	Input voltage range	230 or 04-32	V AC V DC
2.	Max input current	20 or 30	mA AC mA DC
3.	Zero cross voltage	15	V AC
4.	RMS on state current	10, 16, 25, 40, 50, 60	A AC
5.	RMS on state voltage	1.8 or 3.0	V AC
6.	Peak rep. off state voltage	600, 800, 1200	V PK
7.	Half cycle surge current For 10m. sec.	100, 150, 250,300	A
8.	Critical rate of rise of off state voltage	200	V / usec
9.	Isolation voltage	1500	V AC
10.	Response time(max)	10 or 1	m sec

Features and benefits

- No moving parts
- No contact bounce
- Fast operation
- shock & vibration resistance
- Absence of audible noise
- Output contact latching
- High sensitivity

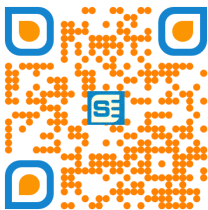
Applications

- Temp. control system : Heating control & Infra red heating control.
- Microprocessor based systems: CNC machines, Automatic vending machines & Injection moulding machines.
- Medical equipments.
- Special purpose machines.



Product Range For Solid State Relay

Product Id	Output Voltage	Output Current	Control
DC - AC, Three Ph ase Relay			
	440 V AC		
SE440VAC16A0432DTP		16 A	4 to 32 V DC
SE440VAC25A0432DTP		25 A	4 to 32 V DC
SE440VAC40A0432DTP		40 A	4 to 32 V DC
SE440VAC50A0432DTP		50 A	4 to 32 V DC
SE440VAC60A0432DTP		60 A	4 to 32 V DC
SE440VAC75A0432DTP		75 A	4 to 32 V DC
AC - AC, Single Phase			
	330 V AC		
SE330VAC16A270A		16 A	170 to 270 V AC
SE330VAC25A270A		25 A	170 to 270 V AC
SE330VAC40A270A		40 A	170 to 270 V AC
SE330VAC50A270A		50 A	170 to 270 V AC
SE330VAC60A270A		60 A	170 to 270 V AC
SE330VAC75A270A		75 A	170 to 270 V AC
AC - AC, Two Pha se Relay			
	440 V AC		
SE440VAC16A270A		16 A	170 to 270 V AC
SE440VAC25A270A		25 A	170 to 270 V AC
SE440VAC40A270A		40 A	170 to 270 V AC
SE440VAC50A270A		50 A	170 to 270 V AC
SE440VAC60A270A		60 A	170 to 270 V AC
SE440VAC75A270A		75 A	170 to 270 V AC
AC - AC, Three Ph ase Relay			
	440 V AC		
SE440VAC16A270ATP		16 A	170 to 270 V AC
SE440VAC25A270ATP		25 A	170 to 270 V AC
SE440VAC40A270ATP		40 A	170 to 270 V AC
SE440VAC50A270ATP		50 A	170 to 270 V AC
SE440VAC60A270ATP		60 A	170 to 270 V AC
SE440VAC75A270ATP		75 A	170 to 270 V AC



Thyristor Heater/Power Controllers

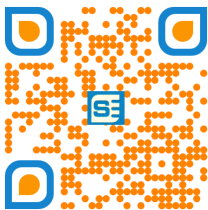
We offer Thyristor Power Controllers, as per industry standard specifications. The product range includes Single phase controllers as well as Three phase controllers. Though products are available in standard specifications, we also offer customized product as per customer's requirement and specifications.



Single Phase Controller :.

Sr. No.	Electrical Parameter	Value
1.	Rating	Upto 30 A
2.	Input	230 V \pm 10%, 50 Hz
3.	Output	0 to 90 %
4.	Control Input	4 to 20 mA signal by external process 0 to 10 V DC signal by external process
5.	RMS on state voltage	1.8 or 3.0
6.	Controller details	Output voltage proportional to input control signal by phase angle control of thyristor
7.	Indications	Power On, Control On
8.	Adjustment	Voltage Settings
9.	Protection	Protection by RC Snubber
10.	Mounting	Open execution module suitable to mount inside panel
11.	Dimensions	205 mm x 145 mm x 100m (H x W x D)





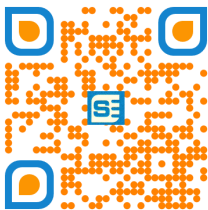
Three Phase Controller :.

Sr. No.	Electrical Parameter	Value
1.	Rating	300 A
2.	Input	415 V \pm 10%, 50 Hz, 3 Phase 4 wire input
3.	Output	0 to 90 %
4.	Control Input	4 to 20 mA signal by external process 0 to 10 V DC signal by external process
5.	RMS on state voltage	1.8 or 3.0
6.	Controller details	Output voltage proportional to input control signal by phase angle control of thyristor
7.	Indications	Power On, Over Current Trip
8.	Adjustment	Voltage Settings
9.	Protection	Protection by RC Snubber
10.	Mounting	Open execution module suitable to mount inside panel



Features and benefits

- More accurate temperature control.
- Improved heater life.
- Least amount of stresses on heater element.
- Isolated control section.
- Over current tripping.
- Very low & easy for maintenance.
- Also suitable for Inductive Loads.
- Available single phase units upto 5 kW & Three phase units upto 200 k
- High sensitivity
- Over Current limit
- Single Phasing Protection
- Semiconductor Fuses
- Soft Start
- Regulation Through Auto/ Manual Mode
- Over Temperature protection by Heatsink



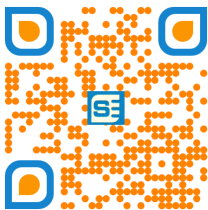
Applications

- For fast heater switching
- To switch higher amperage electric heaters
- To control variable resistance heaters
- To control transformers coupled resistance heaters
- In high-speed paper and ink dryers, high temperature IR heating, high temperature materials processing
- High temperature ovens and furnaces, kilns, glass, ceramics & high temperature alloys

Product Range

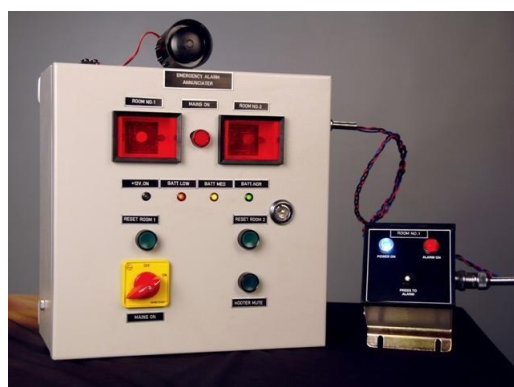
Thyristor Heater Controller	Single Phase	Control : 4 to 20 mA Output : 6 Kilowatt
	3 Phase	Control : 4 to 20 mA Output : 50 Kilowatt
		Control : 4 to 20 mA Output : 100 Kilowatt
		Control : 4 to 20 mA Output : 300 Kilowatt

Note: In addition to above standard products, customized products are also available as per application's requirement



Emergency Alarm System

We offer Emergency Alarm System consisting of control unit with acoustic-visual warning and emergency in-room operating unit. This emergency alarm system is important for personnel safety for cool rooms, freezer rooms and similar applications. It allows personnel trapped inside the cold room to call for help by pressing an emergency button and thus activating the emergency siren & blinking lamp.



Control Panel Indications:

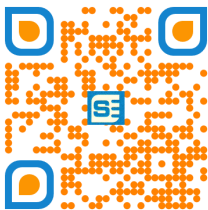
- ❑ Mains On
- ❑ Separate Lamp Indication for each room
- ❑ Battery Indications :
 1. Battery Low
 2. Battery Medium
 3. Battery Full
- ❑ Hooter On

Control Panel Switches:

- ❑ Mains On /Off
- ❑ Separate push button for alarm reset for each room
- ❑ Hooter Off

Input Unit Inside Room

- ❑ Alarm Operating Switch
- ❑ Power On Indication
- ❑ Alarm On Indication



Features & Benefits:

- ❑ Fail Safe Operation
- ❑ Operating Temperature up to -40°C
- ❑ Low Maintenance
- ❑ Rechargeable, maintenance free battery
- ❑ Battery Backup in case of power failure for more than 6 hours
- ❑ Mute/ Acknowledge button for siren
- ❑ Low voltage operating switches, hence no risk of electric shock
- ❑ Easy and quick reset
- ❑ Easy installation and wiring

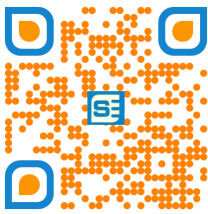
Application

- ❑ Cold Room /Freezer Room Safety alarm & similar applications
- ❑ Pharmacy Industry

Product Range

- 2 Channel Alarm System : For Two Rooms
- 4 Channel Alarm System : For Four Rooms
- 8 Channel Alarm System : For Eight Rooms
- 16 Channel Alarm System : For Sixteen Rooms

Note: In addition to above standard products, customized products are also available as per application's requirement



Thyristor Driver

Thyristor Drivers are used to generate suitable current pulses in order to drive the thyristors, the frequency, phase length, sequence, etc , of these pulses are affected by the signals delivered by the control electronics.



Features & Benefits:

- ❑ Thermal stability
- ❑ Compact design
- ❑ Sturdy construction
- ❑ Enhanced functional life
- ❑ High functionality
- ❑ Easy to use, operate and maintain

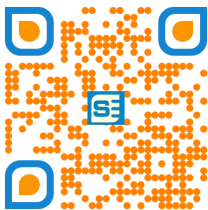
Relay Interface card

We manufacture 8 Channel Relay Interface Module. This module is used to interface variety of analog & digital signals from PLC, DCS or RTU.



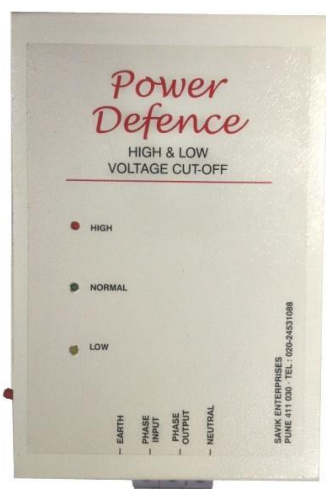
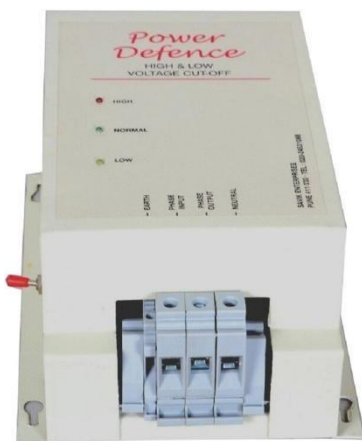
Features & Benefits:

- ❑ Control : 24 V DC
Output : 5 Amp, 230 V AC
- ❑ Compact universal DIN rail mounting with input & output connections.
- ❑ Designed with Solid State Relays.
- ❑ Input On indication.
- ❑ Sturdy construction, Easy installation



Home Protector

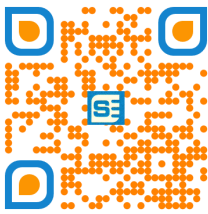
Power surges and the damages they cause may not be something to which you have ever given much thought. However, lightning strikes and similar events over which you have no control can cause power to surge through your home or business, resulting in serious damage that will cost you a significant amount of money to repair. Fortunately, Power Defense home protector is the most reliable and cost effective solution available for you to eliminate such damages completely.



Features & Benefits:

- Can withstand upto 450 V
- Safe operation , Non Moving parts
- Protects home appliances from High Voltage as well as Low Voltage
- Isolated control section.
- Very low & easy for maintenance.
- Also suitable for Inductive Loads.
- Standard unit available up to 30 A current
- Single phase units & Three phase units can be customised as per requirement

Application To protect all the devices in your home and office, including Computers, TVs, Refrigerators, Washing machines, Microwaves Ovens and so on, from unwanted power surges.



Automatic Water Level Controller

Automatic water level controller does not need operator for performing start and stop operations. Fully automatic water level controller switches ON the motor when the water level in the tank becomes low (desired prefixed lower limit) making sure that water is present in the sump. It switches OFF the motor once the tank becomes full (prefixed higher limit) and also when the sump (lower tank) is empty.

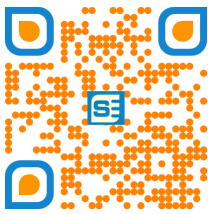


Features & Benefits:

- ❑ No Moving parts (No mechanical relay), hence no noise, corrosion free
- ❑ Metal Enclosure, Easy installation, No maintenance
- ❑ Two float type level sensors.
- ❑ Dry Run Protection
- ❑ Supports Single Phase
- ❑ Lamp indications for Power ON, Upper Tank Full, Lower Tank Full
- ❑ MANUAL mode and AUTO mode Switch

Application

- ❑ Suitable for Sump to Tank set up (Underground or ground level tank to Overhead tank set up).



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