

The thyristor modules with fast pulse sequence are suited for power controlling of shortwave and fast mediumwave IR-emitters.

Because these IR-emitters produce peaks up to 15-fold of the nominal current value at the cold start, we suggest to burden the thyristor only with the reduced current factor of 2.5 of the max. value.



The impulse group control needs, compared to phase angle control, no costly noise suppression. The power controlling effects through a change of the pulse- and pause time. By the particularly fast impulse group control, the glimmer effect will be minimized.

General technical data

Control principle:	fast impulse group control
On-load voltage:	150 V AC to 550 V AC
Mains frequency:	50 Hz $\pm$ 3 Hz / 60 Hz $\pm$ 3 Hz
Rating for fusing I ² t:	5000 A ² s, t=10 ms
Auxiliary voltage:	24 V DC $\pm$ 20% / typ. 25 mA
Control:	0...10 V DC corresponding 0...100 % power
Alarm contact:	NC / max. 60 V DC / max. 0.1 A DC / max. 0.5 W / potential-free
Display:	LED green for adjoining control voltage LED red for trouble e.g. load failure
Ambient temperature:	0° to 60°C in operation / -20° to 80°C storage
Humidity:	not condensed
Protection class:	IP10
Directive:	UL approval

The version with master and slave is for synchronized phase load.
One master can drive 5 slave modules.

Thyristor module without heat sink (external heat sink if necessary)

Max. load current:	75 A (recommendation with safety factor <30 A)
Dimensions:	58 mm x 44 mm x 48 mm (L x W x H)
Mounting:	on heat sink with screws 2x M4
Item no. master:	E110033M
Item no. slave:	E110033S



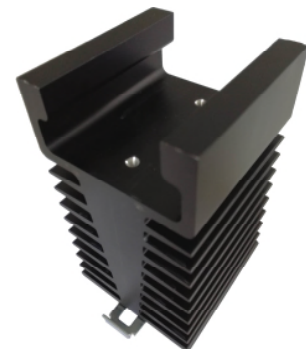
Heat sink for currents <30 A

Max. load current:	75 A (recommendation with safety factor <30 A)
Dimensions:	65 mm x 45 mm x 120 mm (L x W x H)
Mounting:	35 mm DIN rail
Item no. master:	600.1136



Heat sink for currents till 50 A

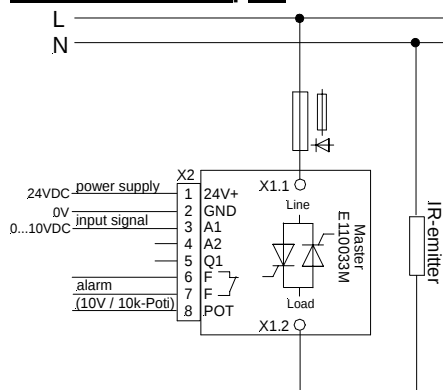
Max. load current:	75 A (recommendation with safety factor till 30 A)
Dimensions:	75 mm x 72 mm x 125 mm (L x W x H)
Mounting:	35 mm DIN rail
Item no. master:	600.1137



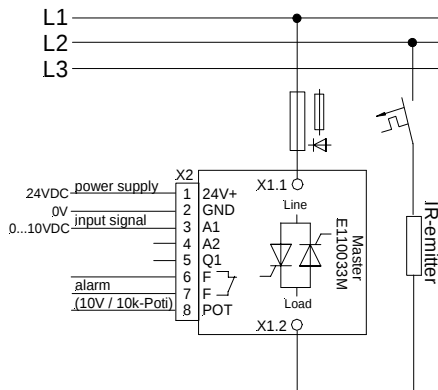
Thyristor modules

with fast pulse sequence

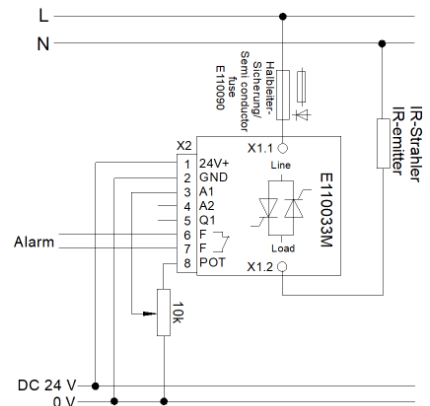
Connection examples



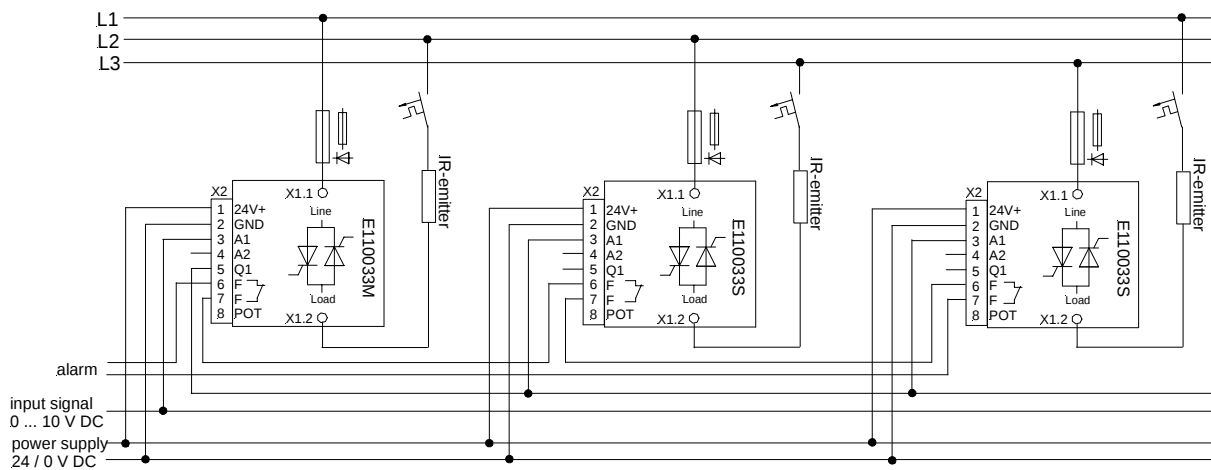
typical 230 V AC arrangement



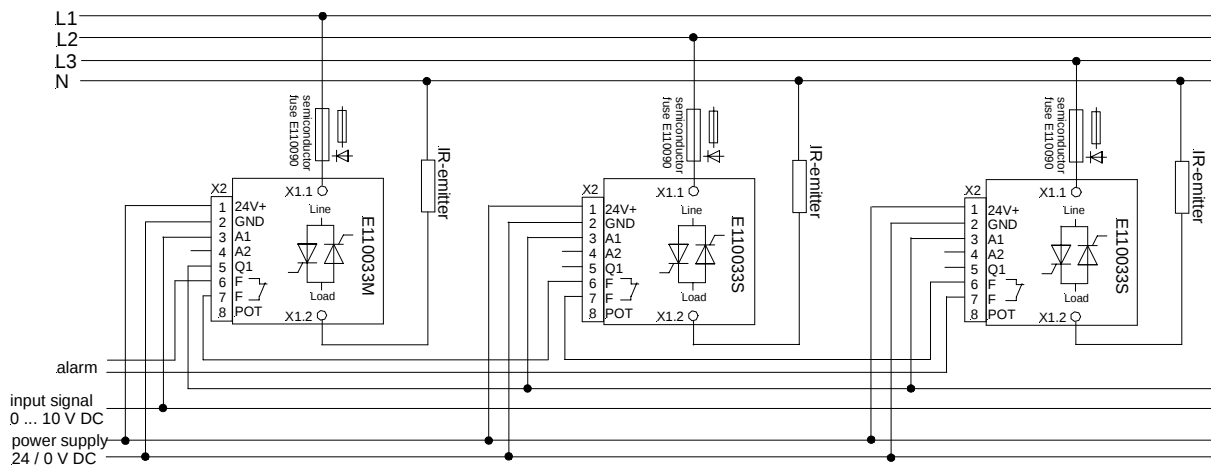
typical 400 V AC arrangement



connection with potentiometer



Master-Slave configuration in open delta connection (400 V AC)



Master-Slave configuration in star connection (230 V AC)

All prices excl. VAT

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All pictures are approximations

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