

## with fast pulse sequence / basis type

The thyristormodules 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:	160 V AC to 450 V AC
Mains frequency:	40 Hz ... 70 Hz
Rating for fusing I <sup>2</sup> t:	4513 A <sup>2</sup> s, t<10 ms
Auxiliary voltage:	24 V DC ±20% / typ. 25 mA
Control:	0...10 V DC corresponding 0...100 % power
Ambient temperature:	-40° to +90°C in operation (rear cooling plate) -40° to +125°C storage
Humidity:	40 ... 85 % rH (not condensed)
Protection class:	IP20
Directive:	CE approval



### Thyristormodule without heat sink (external heat sink if necessary)

Max. load current:	75 A (recommendation with safety factor <30 A)
Dimensions (LxWxH):	58.5 mm x 45 mm x 40.5 mm (with protection cap)
Mounting:	on heat sink with screws 2x M4

**Item no.:** E220022

### Heat sink for currents <30 A

Max. load current:	75 A (recommendation with safety factor <30 A)
Ambient temperature:	max. 40°C
Dimensions (LxWxH):	65 mm x 45 mm x 135 mm (from upper end DIN rail)
Mounting:	snap on DIN rail

**Item no.:** 600.1136



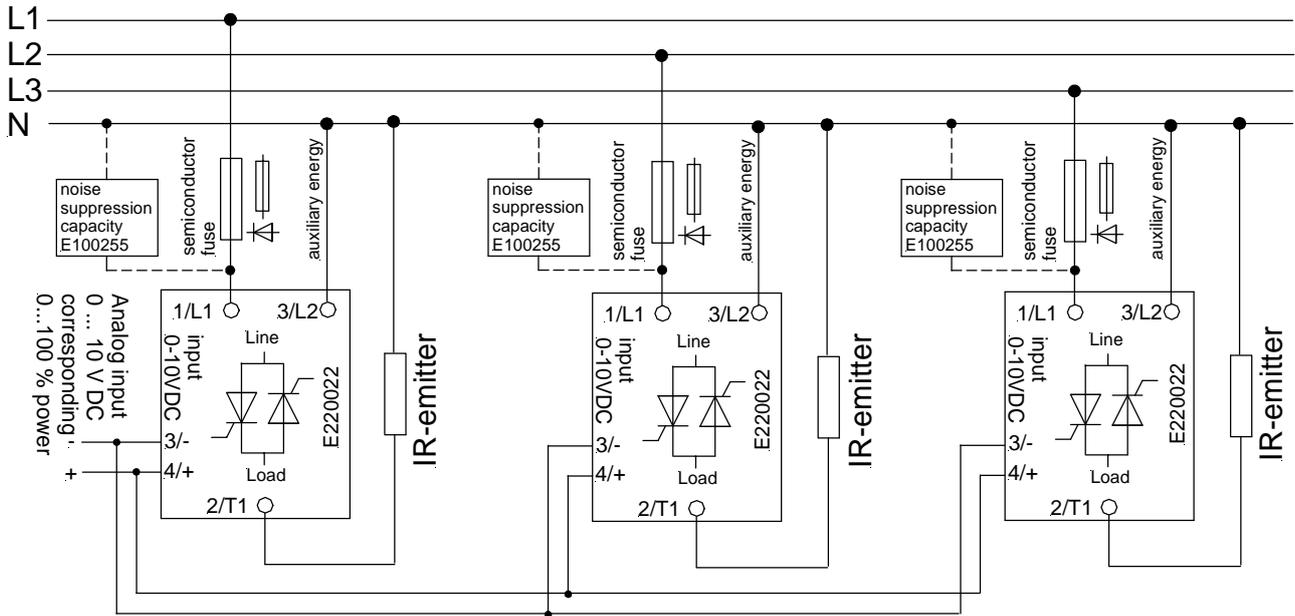
### Heat sink for currents till 50 A

Max. load current:	75 A (recommendation with safety factor till 30 A)
Ambient temperature:	max. 40°C
Dimensions (LxWxH):	75 mm x 72 mm x 145 mm (from upper end DIN rail)
Mounting:	snap on DIN rail

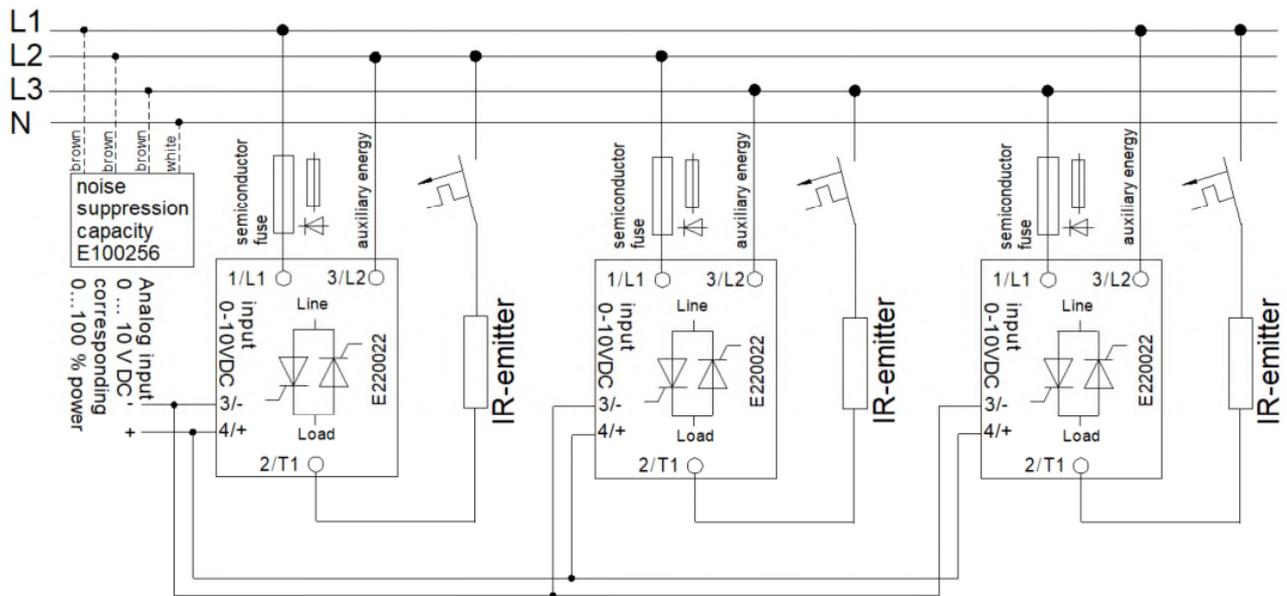
**Item no.:** 600.1137



## Connection examples



Typical wiring of 3 thyristormodules in star connection (230 V AC).  
If only one thyristormodule is needed the two others could be left.



Typical wiring of 3 thyristormodules in open delta connection (400 V AC).  
If only one thyristormodule is needed the two others could be left.

## Accessories

semiconductor fuse 63 A, Gr. D02, Neozed

Item-no.: E110090

Noise suppression capacity\* 1-phase, 250 V AC  
30 cm wires (2,5 mm<sup>2</sup>), Ø25 mm, height 50 mm

Item-no.: E100255

Noise suppression capacity\* 3-phase, 3x 480 V AC  
30 cm wires (2,5 mm<sup>2</sup>), 68x25x50 mm (WxDxH)

Item-no.: E100256

\* - according to EN 61000-6-4 / DIN EN 55011 – industrial devices