

AEG

Power supply systems

THE THYRO-FAMILY

Thyristor Power Controllers (SCR)



With the introduction of series Thyro-S, Thyro-A and Thyro-P, AEG PSS presents its new Thyro-Family of Thyristor Power Controller (SCR). These Power Controllers are well equipped to meet tomorrow's demands because they universally possess unique communications capabilities.

Quality, repeatability, communications capabilities and high availability form the basis for documented outstanding product quality in the application process. Thyristor Power Controller (SCR) from AEG PSS switch, control or regulate electrical energy around beginning with simple applications for optimized analog Power Controllers as cost-effective solutions - right up to the complex applications that require digital high-end controllers. AEG PSS Power Controllers can be found around the world anywhere that melting, heating, drying or forming

must be done precisely and reliably, e.g. in the fields of:

- oven equipment (industrial, diffusion, and drying ovens)
- glass processing (float glass, feeder, finishing)
- plant equipment (extruders, plastic presses)
- chemical industry (pipe trace heating, preheat equipment)
- automotive industry (paint drying equipment)
- printing machines (IR driers)
- packaging industry (shrink tunnels)

Beyond the higher product quality achieved through DIN EN ISO 9001, AEG PSS also offers security for application processes by virtue of its many years of development and support experience.

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>> THE THYRO-FAMILY



THYRISTOR SWITCH THYRO-S...1

- 230 V, 400 V, 500 V
- Current ratings 16 A-280 A
- Integrated semiconductor fuse
- System interface for busmodule is standard
- Operating modes 1:1, 1:2, 1:3, 1:5
- Control with 24V (> 3 V)
- Secure isolation between control and power sections
- UL approval
- CE compliant

HRL TYPE

- Load circuit monitoring
- Alarm relay



THYRISTOR POWER CONTROLLER (SCR) THYRO-A...1

- 230 V, 400 V, 500 V
- 16 A - 280 A, 1/2 phase
- Integrated semiconductor fuses
- System interface
- Suitable for transformer loads
- 2 regulation modes and 3 operating modes
- V_{mains} down to $0.43 \times V_{\text{nom}}$
- Input load optimization
- UL approval
- CE compliant

HRL TYPE

- Channel separation
- $R_{\text{warm}}/R_{\text{cold}}$ to ≤ 6
- Load monitoring
- Alarm relay
- V, V², I, I² regulation
- Analog output



THYRO-A 3A...H1

- simple handling and low space requirements
- voltage ratings 400 V, 500 V
- current ratings 16 A-280 A, 3-phase
- integrated semiconductor fuses
- standard system interface features for connection to
 - an optional bus module
 - Thyro-Tool Family, via PC interface RS232
- Suitable for transformer loads
- 2 regulation modes V, V²
- 2 operating modes (full cycle, phase angle)
- V_{mains} down to $0.43 \times V_{\text{nom}}$
- Input load optimization (SYT-9 required)
- UL approval
- CE compliant

H RLP TYPE

- Like H1 type, with additional
 - I-, I²-, P-regulation
 - 3-phase load monitoring
 - Alarm relay
 - Analog output



THYRISTOR POWER CONTROLLER (SCR) THYRO-P

- simple handling, easily installed
- menu driven user interface
- up to 690 Volt and 2,900 A
- wide band power supply approx. AC 200-500 V, 50-60 Hz
- resistive or inductive load, and loads with large R_{hot}/R_{cold}
- soft-start function for inductive loads
- load circuit monitoring
- V -, V^2 -, I -, I^2 -, P - regulation
- controlled by analogue signal or ramping values from the interface
- optical and RS-232 interfaces
- electrical protection separation between power and control section that meets EN50178 chap.3
- UL approval
- CE compliant

Powerful options

- bus connection via adapter card, e.g. for Profibus, Modbus RTU
- patented ASM procedure for dynamic load optimization

- local display and service unit (LBA), graphic-capable, menu driven
- rack mounting (SEK) for LBA
- PC software package, Thyro-Tool Family, for quick commissioning and simple visualization

SOFTSTARTER

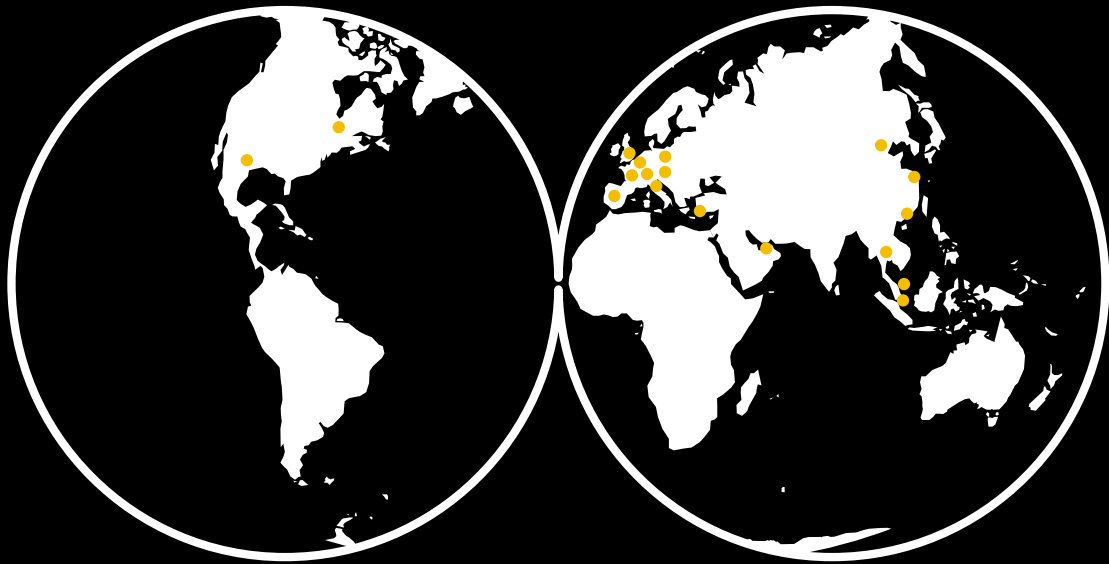
Industrial soft-start devices are a "must" these days to prevent high current spikes and heavy wear in three-phase asynchronous motors.

The patented power regulation incorporated in the Thyrosoft model 3DC from AEG PSS lets you avoid these common start-up and wear problems that affect drive trains and machinery.

Typical applications are: pumps, compressors, conveyor lines, ventilators, grinders, centrifuges, cooling equipment and mixers.

THYROSOFT MODEL 3DC

- soft-start/stop cycles that are gentle to motors and machines
- starting currents to 3,050 A
- 3 x 400 V, 3 x 500 V, 3 x 690 V
- trouble-free expansion of existing equipment
- two current limits, can also be used for reversible pole
- any field rotation direction
- integrated load circuit and self monitoring
- electrical protection separation between power and control section that meets EN50178 chap.3



Power Systems

Whenever wherever whatever

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Saft power systems

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Power supply systems