

CD3000S 1PH FROM 10A TO 90A



General description

- CD3000S 1PH is a compact low cost family of solid state switches designed to replace contactors
- Single-phase thyristor units up to 90A.
- Applicable for resistive loads and infrared lamp.
- Zero crossing firing available with logic input signal (SSR)
- Constant current drain with SSR input
- Analog input 4→20mA or 0→10V with burst firing 4, 8 or 16 cycle at 50% power demand, is available as an option from 15A to 90A
- Heater break alarm (HB) to diagnostic partial or total load failure and short circuit on thyristor, is available as an option from 15A to 90A
- Side by side mounting
- Special design for heatsink with high dissipation
- IP20 protection
- Comply with EMC specification CE and cUL

Technical Specification

Voltage power supply Input Signal

24V min, 480V Max, 600V on request
SSR (OFF state <1Vdc ON = 4→30 Vdc) is standard up to 90A included.

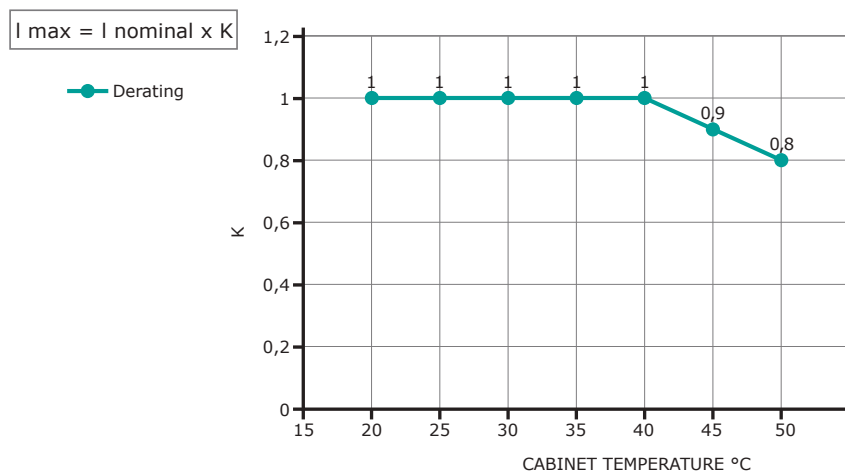
Firing Auxiliary Voltage Supply Fan Voltage Supply Heater Break Alarm

Analog input 4→20mA and 0→10V is available as an option on units from 15A→90A included
Zero crossing ZC; Burst Firing 4/8/16 with 4→20mA or 0→10V with 12→24V aux. power supply
See CD3000-1PH ordering code power consumption 10Va
230V ± 15% standard for unit equal or over 90A (110V is available as an option)
Discrimination better than 20%.
Circuit microprocessor based to diagnose partial or total load failure and short circuit on Thyristor.
Latching alarm plus reset.
Relay output 1A at 230V.
Automatic calibration of one or more unit at the same time using a dedicated digital input or using for each unit the calibration button.

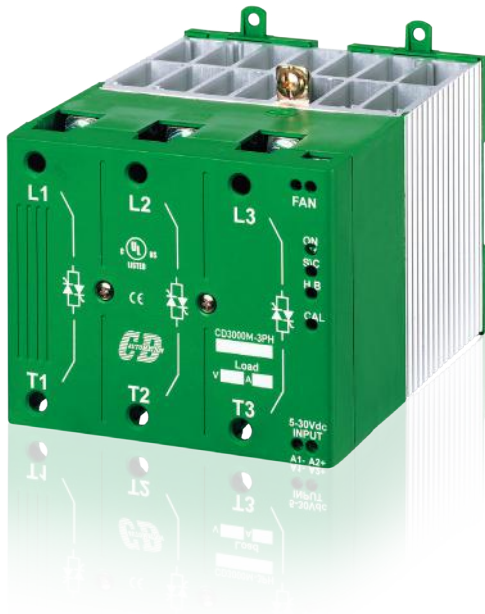
Approvals Mounting Operating Temperature

Comply with EMC; cULus available as an option on basic units
Din rail mounting up to 90A included, bulkhead over 110A, IP20 protection
0→40° up to 90A included (for higher temperature see the derating curve)

Current derating as function of cabinet temperature



CD 3000S 2PH FROM 10A TO 90A



General description

- CD3000S 2PH two leg switching three wire load star or delta resistive loads or infrared lamps up to 90A
- Fully isolated from power
- Zero crossing firing available with logic input signal (SSR)
- Constant current drain with SSR input
- Analog input 4÷20mA or 0÷10V with burst firing 4, 8 or 16 cycle at 50% power demand, is available as an option from 35A to 90A
- Heater break alarm (HB) to diagnostic partial or total load failure and short circuit on thyristor, is available as an option from 35A to 90A
- Side by side mounting
- Special design for heatsink with high dissipation
- IP20 protection
- Comply with EMC specification CE and cUL

Technical Specification

Voltage power supply Input Signal

24V min, 480V Max, 600V on request
SSR (OFF state <1Vdc ON = 4÷30 Vdc) is standard up to 90A included.

Firing

Analog input 4÷20mA and 0÷10V is available from 35A (included) to 90A (included)
Zero crossing ZC; Burst Firing 4/8/16 with 4÷20mA or 0÷10V with 12÷24V aux. power supply

Auxiliary Voltage Supply Fan Voltage Supply Heater Break Alarm

See CD3000-1PH ordering code power consumption 10VA
230V ± 15% standard f(110V on request opt., if current ≥75A)
Discrimination better than 20%.
Circuit microprocessor based to diagnose partial or total load failure and short circuit on Thyristor.
Latching alarm plus reset.
Relay output 1A at 230V.
Automation calibration of one or more unit at the same time using a dedicated digital input or using for each unit the calibration button.

Approvals

Comply with EMC; cULus available as an option on basic units

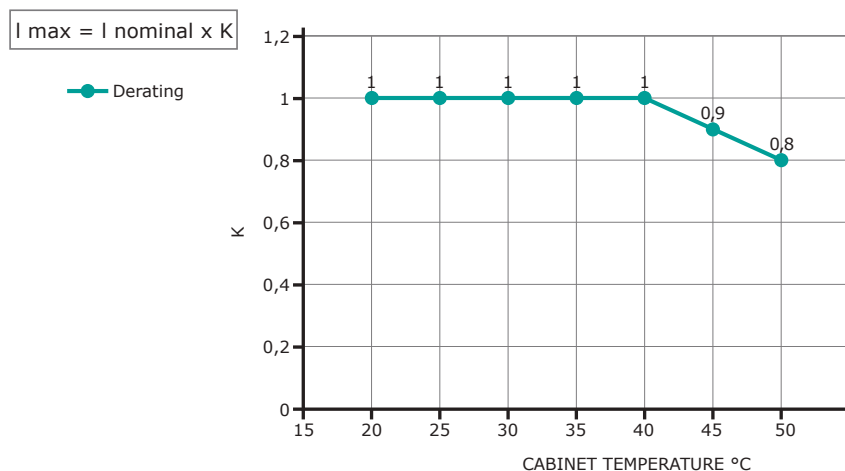
Mounting

Din rail mounting up to 90A included

Operating Temperature

0÷40° up to 90A included (for higher temperature see the derating curve)

Current derating as function of cabinet temperature



CD 3000S 3PH FROM 15A TO 90A



General description

- CD3000S 3PH is a three leg switching three wire resistive load
- Up to 90A
- Fully isolated from power
- Applicable for resistive loads
- Zero crossing firing
- Logic input signal SSR
- Constant current drain
- Side by side packaging
- Special design for heatsink with high dissipation
- IP20 protection
- Comply with EMC specification

Technical Specification

Voltage power supply	24V min, 480V Max, 600V on request
Input Signal	SSR (OFF state <1Vdc ON = 4+30 Vdc) firing.
Firing	Zero crossing ZC
Auxiliary Voltage Supply	10Va power consumption
Fan Voltage Supply	230V ± 15%
Approvals	Comply with EMC; cULus available as an option
Mounting	Din rail mounting up to 90A
Operating Temperature	0+40° up to 90A included (for higher temperature see the derating curve)

Current derating as function of cabinet temperature

