



CTR Series



What is Unique with the the CTR Series?

***Reinforces Crydom's 3 Phase Presence
– with a 3 Phase Solid State Contactor...***

■ **Very few competitors**

(Carlo Gavazzi, Omron, Siemens, Continental)

■ **Epoxy-free design minimizes
internal component stress**

■ **No external transient
protection required**



■ **Integral heat sink eliminates
the need for complex thermal
calculations and reduces the
number of parts to buy.**

■ **4 Unique Part Numbers**

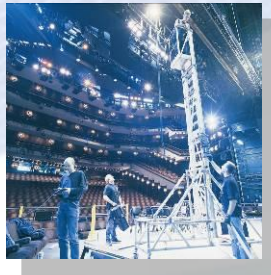
CTR Series Key Metrics:

- Ratings 25A per phase @ 600 VAC
- DIN rail or panel mount 90 mm (width) package
- 100K-cycle UL 508 Endurance rating for enhanced reliability
- SCR output for heavy industrial load
- LED input status indicator
- AC or DC control
- Zero-crossing (resistive loads) or random-fire (inductive loads) output
- UL recognized, CE, RoHS and EMC compliant
- IP20 Touch Safe Housing

*Same specs as
similar Crouzet
product*



What Are the Target Markets/ Applications for the CTR Series?



- Heating
- Lighting
- Motion Control

Transportation (Rail, Back Up Power)
Industrial Automation
Process Control
Machine Tools (Hydraulic Pumps)
Semiconductor Equipment
HVAC (Heating, Ventilation & Air Conditioning)
Food Processing
Compressors
Elevators & Rolling Shutters
Plastics Industry
Material Handling & Packaging
Oil Services
Paper & Printing
Lighting



**CRYDOM INTRODUCES THE CTR SERIES OF THREE-PHASE
AC OUTPUT DIN RAIL MOUNTED SOLID STATE
CONTACTOR RELAYS**

The Crydom CTR Series of DIN Rail mounted Three-Phase AC Output Solid State Contactor Relays includes models with 25 amps per channel Output at 600 VAC, AC or DC Control Inputs, IP20 Touch Safe Design, UL approval and CE certification.

For Immediate Release: May 24, 2010

Crydom, a company of Custom Sensors & Technologies (CST) and global expert in Solid State Relay Technology, announces the introduction of the CTR Series of 90 mm wide three-phase DIN Rail mounted AC output SSRs. The new Crydom CTR series offers UL approved AC output ratings of 25 amps per channel at 600 VAC, AC or DC input control, zero voltage or random turn on, and IP20 touch safe construction with integral heat sink. Mounting to industry standard 35 mm DIN rail, the CTR Series also includes compliance to the IEC CISPR 11 Class A emissions requirements, IEC61000-4-2 through -6, level 3, transient susceptibility standards, RoHS compliance, and CE Certification to the Low Voltage Directive.

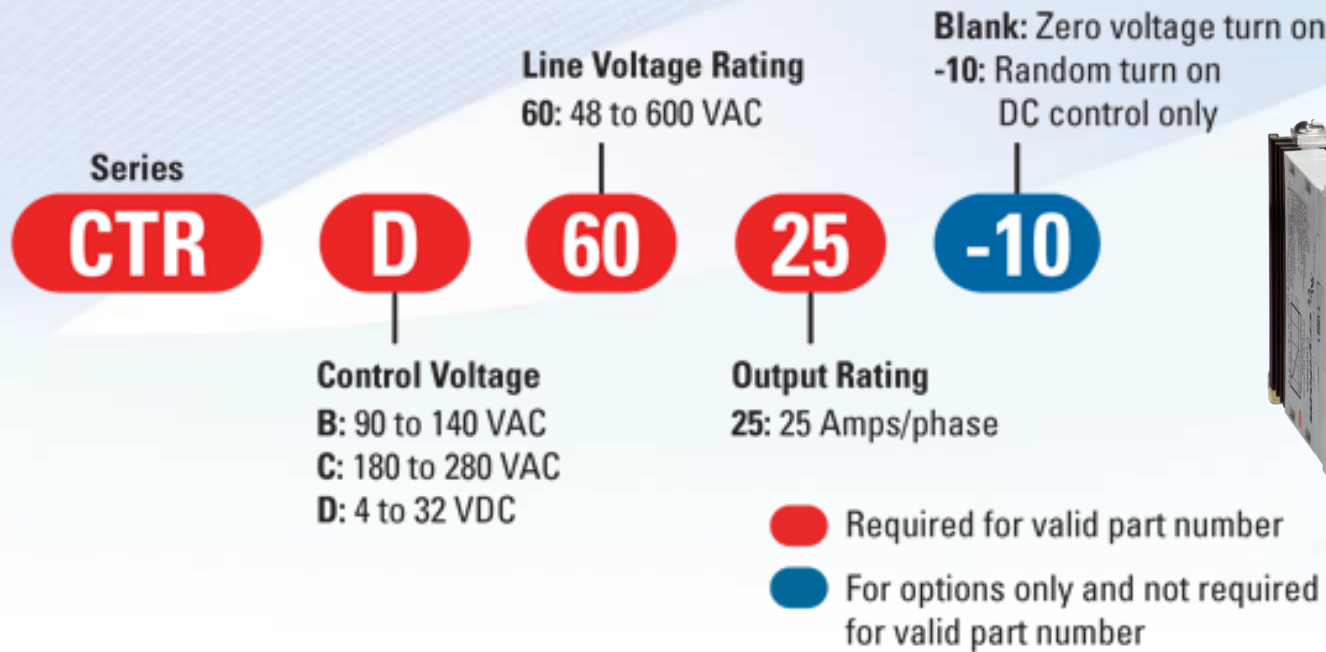


For more information about the new Crydom CTR series, contact the nearest Crydom Distributor, Representative or Local Crydom Sales Office, or visit our website at www.crydom.com.

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Part Number Nomenclature



CST crydom Installation Sheet

CTR Series DIN rail mountable SSRs

Crydom CTR Series Solid State Relays were developed to offer the advantages of semi-conductor switching technology in a compact, well contained package. Each unit area available is coupled with low power requirements and efficient, reliable power SSR output.

- FEATURES**
- DIN rail 1/2 panel mount (10mm height) package
 - Bus Clamping terminals
 - Backlight of standard Status SSR coil profiles
 - LED input status indicator

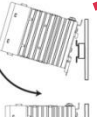
MOUNTING INSTRUCTIONS

Please read all installation instructions before using CTR series SSRs.

• Choose one of the two mounting options and follow the instructions below.

MOUNTING ON DIN RAIL

- Locate coil and align with non-movable and CTR SSR coil.
- Using reasonable force, push the CTR SSR in the direction of the arrows shown.
- For removal pull release tag in direction of arrow (line of arrowhead) and pull it away from DIN rail.



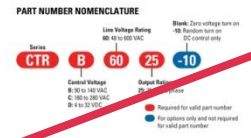
MOUNTING ON PANEL

- Locate the panel section on which the CTR SSR will be mounted on.
- DIN rily includes tabs for this type of mounting. The tabs are 4mm diameter and 4.5mm high. The tabs must be aligned (not included) so larger than that to mount the SSR on panel.
- Align SSR tabs with panel surface and screw both top and bottom sides. Recommended torque is 0.2 to 0.3 Nm.

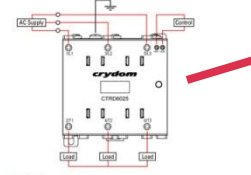


IMPORTANT CONSIDERATIONS

- **Mounting air gap**
To achieve maximum ratings if multiple units are installed there must be a minimum air gap of 0.75 in. (20 mm) between the devices (horizontally) and of 1.15 in. (30 mm) measured between DIN rily tabs vertically.
- **Bus Current and Short Circuit**
A solid state relay should be protected by a combination fuse. This type of fuse provides extremely fast opening of the circuit. A fuse should be selected that has an I²t through rating that is less than the I²t capability of the SSR for the same duration.
- **Leakage (Soundings)**
The CTR feedback is equipped with an earth bonding screw as is required for Class I Protection, in accordance with IEC 60300-302 (2004). Recommended torque is 0.2 to 0.3 Nm.



WIRING DIAGRAM



- **Wire Size**
Maximum wire size of AWG#12 (2.0mm) on input and AWG#12 (2.0mm) on output terminals.
- **Clearances**
Ensure that wire ends for termination connections are stripped to a minimum length of 0.4 in. (10 mm).
- **Recommended Screw Torque Range**
Top to 0.2 Nm (torque input) and 0.3 to 0.7 Nm on output.

The air gap is the clearance distance adjacent to either side of the rily or assembly measured to the next closer rily or assembly.

Rev: 02/2010

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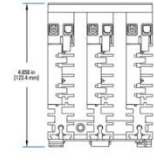
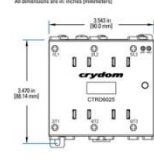
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Mounting instructions

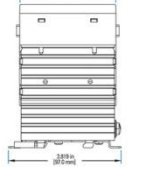
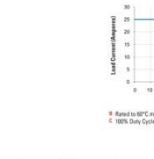
Wiring diagram

CST crydom Installation Sheet

MECHANICAL DIMENSIONS



DERATING CURVE



Rev: 02/2010

Mechanical Dimensions


<p>WARNING / AVERTISSEMENT / WARNING / ADVERTENCIA / AVVERTENZA / 警告</p> <p>HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH To avoid these risks, read the instructions carefully before using the product. Risque de choc électrique, explosion ou arc électrique Pour éviter ces risques, lisez attentivement les instructions avant d'utiliser le produit. RISCHIO DI ELETTRICITÀ, ESPLOSIONE O ARCO ELETTRICO Per evitare questi rischi, leggere attentamente le istruzioni prima di usare il prodotto. Riesgo de choque eléctrico, explosión o arco eléctrico Para evitar estos riesgos, lea cuidadosamente las instrucciones antes de utilizar el producto.</p>	<p>DANGER / DANGER / GEFAHR / PELIGRO / PERICOLO / 危險</p> <p>HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH To avoid these risks, read the instructions carefully before using the product. Risque de choc électrique, explosion ou arc électrique Pour éviter ces risques, lisez attentivement les instructions avant d'utiliser le produit. RISCHIO DI ELETTRICITÀ, ESPLOSIONE O ARCO ELETTRICO Per evitare questi rischi, leggere attentamente le istruzioni prima di usare il prodotto. Riesgo de choque eléctrico, explosión o arco eléctrico Para evitar estos riesgos, lea cuidadosamente las instrucciones antes de utilizar el producto.</p>	<p>HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH To avoid these risks, read the instructions carefully before using the product. Risque de choc électrique, explosion ou arc électrique Pour éviter ces risques, lisez attentivement les instructions avant d'utiliser le produit. RISCHIO DI ELETTRICITÀ, ESPLOSIONE O ARCO ELETTRICO Per evitare questi rischi, leggere attentamente le istruzioni prima di usare il prodotto. Riesgo de choque eléctrico, explosión o arco eléctrico Para evitar estos riesgos, lea cuidadosamente las instrucciones antes de utilizar el producto.</p>
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CRYDOM INTRODUCES THE CTR SERIES OF THREE-PHASE AC OUTPUT DIN RAIL MOUNTED SOLID STATE CONTACTOR RELAYS

The Crydom CTR Series of DIN Rail mounted Three-Phase AC Output Solid State Contactor Relays includes models with 25 amps per channel Output at 600 VAC, AC or DC Control Inputs, IP20 Touch Safe Design, UL approval and CE certification.

For Immediate Release: May 24, 2010

Crydom, a company of Custom Sensors & Technologies (CST) and global expert in Solid State Relay Technology, announces the introduction of the CTR Series of 60 mm wide three-phase DIN Rail mounted AC output SSRs. The new Crydom CTR series offers UL approved AC output ratings of 25 amps per channel at 600 VAC, AC or DC (no-lead control), zero voltage or random turn on, and IP20 touch safe construction with integral heat sink. Mounting to industry standard 35 mm DIN rail, the CTR Series also includes compliance to the IEC CISPR 11 Class A emissions requirements, IEC61000-4-2 through -6, level 3, transient susceptibility standards, RoHS compliance, and CE Certification to the Low Voltage Directive.

For more information about the new Crydom CTR series, contact the nearest Crydom Distributor, Representative or Local Crydom Sales Office, or visit our website at www.crydom.com.

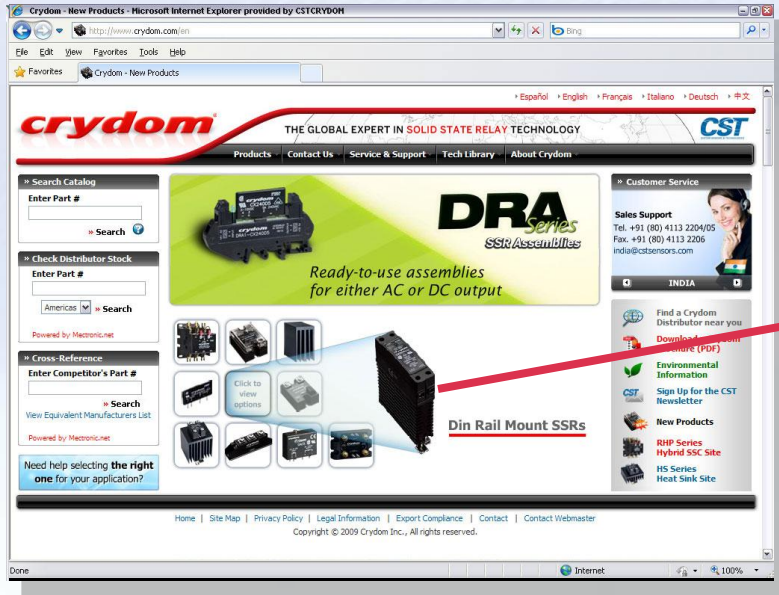
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The screenshot shows the Crydom website interface. The main navigation bar includes 'Products', 'Contact Us', 'Service & Support', 'Tech Library', and 'About Crydom'. The 'New Products' section is highlighted, featuring the 'CTR Series SSRs'. The product description includes: 'Crydom introduces 30 new 3 Phase SSR models that are being added to its S3 Series of panel mounted three phase AC output Solid State Contactor Relays. The expanded S3 series offer now includes models featuring IP20 touch safe covers with load current ratings of either 25 or 50 amps per channel at 530 VAC. Four new 3 phase motor reversing models also rated at 25 and 50 amps are also available. The reversing models include the same IP20 touch safe design, Class A emissions and level 3 noise immunity as the new 3 phase SSR contactor models.' A red arrow points to the 'CTR Series SSRs' product image and its description.

Product highlight in the
New Products section on
website



You may access the datasheets through the homepage product group selector choosing "DIN Rail Mount SSRs"

Datasheet of CTR series in on-line catalog

The screenshot shows the datasheet for the CTR series of Din Rail Mount SSRs. It includes a product image, a list of features, a product selection diagram, and a table of output specifications.

CTR Series

- Ratings 25A per phase @ 600 VAC
- DIN-RAIL, or Panel Mount 50mm (width) package
- 100k-cycle UL 508 Endurance Rating for Enhanced Reliability
- SCR output for heavy industrial loads
- LED input status indicator
- AC or DC control
- Zero-crossing (resistive loads) or random-fire (inductive loads) output
- UL Recognized, CE, RoHS and EMC Compliant

PRODUCT SELECTION

Description 25 A
 4-Qu. DC Control CTR0625
 50-140 VAC Control CTR0625
 180-260 VAC Control CTR0625

AVAILABLE OPTIONS

Control Voltage
 B 50 to 140 VAC
 C 180 to 260 VAC
 D 180 to 600 VAC

Output Rating
 25 25 Amps/phase

Series: CTR B 60 25 -10

CTR: Standard Series
 50 mm DIN rail mount
 SSR package

Line Voltage Rating
 60-60 to 600 VAC

Blank: Zero voltage turn on
 -10: Random turn on
 DC: control only

OUTPUT SPECIFICATIONS (1)

Description	CTR0625	CTR0625	CTR0625
Operating Voltage (UL 508B Output)	48-60V	48-60V	48-60V
Maximum Overload Current	125%	125%	125%
Maximum Load Current (25°C)	25	25	25
Maximum Load Current (55°C)	20	20	20
Maximum Off-State Leakage Current @ Rated Voltage (Initial)	0.25	0.25	0.25
Maximum Off-State Leakage Current @ Maximum Rated Voltage (Initial)	0.50	0.50	0.50
Maximum On-State Voltage Drop @ Rated Current (25°C)	1.30	1.30	1.30
Maximum On-State Voltage Drop @ Maximum Rated Current (25°C)	2.00	2.00	2.00
Maximum On-State Voltage Drop @ Rated Current (55°C)	3000V	3000V	3000V
Off-State Leakage Current	0.5	0.5	0.5
Maximum Power Dissipation (with Maximum Load)	10W AVG	10W AVG	10W AVG
Maximum ambient temp	55°C ABS	55°C ABS	55°C ABS
Maximum case temp	75°C ABS	75°C ABS	75°C ABS

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