

# SVDA SVAA

MODELS



## Panel mounted single phase solid state relay

### Specification Sheet

---

- 10 - 75 amps  
300Vac max.
- 50 - 75 amps  
600Vac max.
- Single phase zero  
crossing
- LED input indicator
- Clear safety cover  
included
- Panel mount
- DC and AC logic input  
versions
- Superior Surge  
Survival™
- CE compliant
- UL recognised
- CSA certified

#### Ratings

The current ratings of the SV range are 10, 25, 50 and 75 amps for 300 volt rating. 50 and 75amps for 600 volt rating. Incorporates Superior Surge Survival™ providing increased immunity to voltage transients.

#### Inputs

The SV Series accepts DC Logic inputs (SVDA) or AC Logic inputs (SVAA).

#### Firing mode

All units are Logic fired with zero voltage switching.

#### Fusing

External high speed fuses and fuseholders can be used.

#### Cooling

These units are designed to be mounted on panel walls (metallic) or other heatsink in order to keep the base temperature below 40°C.

## TECHNICAL SPECIFICATION

Additional information and documentation available on [www.eurotherm.com](http://www.eurotherm.com)

### Electrical ratings

Current/voltage	10, 25 and 50 amps AC fired only and 75 amps AC or DC fired at 300 volt rating* 75 amps AC or DC fired for 600 volt rating*
Voltage range	(24 - 330Vac) or (24 - 660Vac) depending on order code
Frequency	47-63Hz
Blocking voltage	800 volts for 300 volt units 1200 volts for 600 volt units
Isolation (input-output)	4000V

### DC input

Turn on voltage	>4V (min) 32V (max)
Turn off voltage	<1 volt
Reverse voltage protection	-100V
Impedance	1500 ohms

### AC input

Turn on voltage	100V (min) 280V (max)
Turn off voltage	20Vac (max)
Impedance	20K ohm

### Voltage drop

Approx. 1.3V at nominal current

### Holding current

50mA (min)

### Residual current

8mA (max)

### Indication

LED input status indication

### Firing mode

Logic (on/off) with zero voltage switching

### Dimensions (mm)

45(H) x 58(W) x 35(D) (including cover)

### Fuseholders

CFU038, 81(H) x 18(W) x 68(D)

CFU451, 95(H) x 26(W) x 86(D)

CFU258, 140(H) x 35(W) x 90(D)

\* When mounted to an appropriate heat sink

### Environment

Operating temperature	-40°C to 100°C
Humidity	5% to 95% non condensing, non streaming
Atmosphere	Non corrosive, non explosive, and non conducting
Altitude	2000 metres maximum
Pollution	Pollution degree 2 admissible, defined by IEC644
Cooling	External heatsink required to maintain temperature specification. Allow 25mm between adjacent units
Protection (electrical)	Snubber circuits and Superior Surge Survival technology gives protection against most industrial electrical noise
Protection (mechanical)	The clear safety cover gives IP20 protection

## PART NUMBER

### DC Logic input

SVDA/3V75/AO2	75amp 300V
SVDA/6V75/AO2	75amp 600V

### AC Logic input

SVAA/3V10/AO2	10amp 300V
SVAA/3V25/AO2	25amp 300V
SVAA/3V50/AO2	50amp 300V
SVAA/3V75/AO2	75amp 300V
SVAA/6V50/AO2	50amp 600V
SVAA/6V75/AO2	75amp 600V

### SVDA FUSE AND HOLDER

Current rating amps	Fuse and holder assembly
10A	CFU038/10A/00
25A	CFU451/25A/00
50A	CFU258/50A/00
75A	CFU258/75A/00

### SPARE FUSES

Unit current	Part number
10A	CS175731
25A	CS175732
50A	CS175928
75A	CS175735

## Eurotherm: International sales and service

Understanding and providing local support is a key part of Eurotherm's business. Complementing worldwide Eurotherm offices are a whole range of partners and a comprehensive technical support team... to ensure you get a service you will want to go back to.

### AUSTRALIA Sydney

Eurotherm Pty. Ltd.  
T (+61 2) 9838 0099  
F (+61 2) 9838 9288  
E [info.au@eurotherm.com](mailto:info.au@eurotherm.com)

### AUSTRIA Vienna

Eurotherm GmbH  
T (+43 1) 7987601  
F (+43 1) 7987605  
E [info.at@eurotherm.com](mailto:info.at@eurotherm.com)

### BELGIUM & LUXEMBOURG Moha

Eurotherm S.A./N.V.  
T (+32) 85 274080  
F (+32) 85 274081  
E [info.be@eurotherm.com](mailto:info.be@eurotherm.com)

### BRAZIL Campinas-SP

Eurotherm Ltda.  
T (+5519) 3707 5333  
F (+5519) 3707 5345  
E [info.br@eurotherm.com](mailto:info.br@eurotherm.com)

### DENMARK Copenhagen

Eurotherm Danmark AS  
T (+45 70) 234670  
F (+45 70) 234660  
E [info.dk@eurotherm.com](mailto:info.dk@eurotherm.com)

### FINLAND Abo

Eurotherm Finland  
T (+358) 22506030  
F (+358) 22503201  
E [info.fi@eurotherm.com](mailto:info.fi@eurotherm.com)

### FRANCE Lyon

Eurotherm Automation SA  
T (+33 478) 664500  
F (+33 478) 352490  
E [info.fr@eurotherm.com](mailto:info.fr@eurotherm.com)

### GERMANY Limburg

Eurotherm Deutschland GmbH  
T (+49 6431) 2980  
F (+49 6431) 298119  
E [info.de@eurotherm.com](mailto:info.de@eurotherm.com)

### HONG KONG & CHINA

Eurotherm Limited North Point  
T (+85 2) 28733826  
F (+85 2) 28700148  
E [info.hk@eurotherm.com](mailto:info.hk@eurotherm.com)

### Guangzhou Office

T (+86 20) 8755 5099  
F (+86 20) 8755 5831  
E [info.cn@eurotherm.com](mailto:info.cn@eurotherm.com)

### Beijing Office

T (+86 10) 6567 8506  
F (+86 10) 6567 8509  
E [info.cn@eurotherm.com](mailto:info.cn@eurotherm.com)

### Shanghai Office

T (+86 21) 6145 1188  
F (+86 21) 6145 1187  
E [info.cn@eurotherm.com](mailto:info.cn@eurotherm.com)

### INDIA Chennai

Eurotherm India Limited  
T (+91 44) 24961129  
F (+91 44) 24961831  
E [info.in@eurotherm.com](mailto:info.in@eurotherm.com)

### IRELAND Dublin

Eurotherm Ireland Limited  
T (+353 1) 4691800  
F (+353 1) 4691300  
E [info.ie@eurotherm.com](mailto:info.ie@eurotherm.com)

### ITALY Como

Eurotherm S.r.l.  
T (+39 31) 975111  
F (+39 31) 977512  
E [info.it@eurotherm.com](mailto:info.it@eurotherm.com)

### KOREA Seoul

Eurotherm Korea Limited  
T (+82 31) 2738507  
F (+82 31) 2738508  
E [info.kr@eurotherm.com](mailto:info.kr@eurotherm.com)

### NETHERLANDS Alphen a/d Rijn

Eurotherm B.V.  
T (+31 172) 411752  
F (+31 172) 417260  
E [info.nl@eurotherm.com](mailto:info.nl@eurotherm.com)

### NORWAY Oslo

Eurotherm A/S  
T (+47 67) 592170  
F (+47 67) 118301  
E [info.no@eurotherm.com](mailto:info.no@eurotherm.com)

### POLAND Katowice

Invensys Eurotherm Sp z o.o.  
T (+48 32) 2185100  
F (+48 32) 2177171  
E [info.pl@eurotherm.com](mailto:info.pl@eurotherm.com)

### SPAIN Madrid

Eurotherm España SA  
T (+34 91) 6616001  
F (+34 91) 6619093  
E [info.es@eurotherm.com](mailto:info.es@eurotherm.com)

### SWEDEN Malmo

Eurotherm AB  
T (+46 40) 384500  
F (+46 40) 384545  
E [info.se@eurotherm.com](mailto:info.se@eurotherm.com)

### SWITZERLAND Wollerau

Eurotherm Produkte (Schweiz) AG  
T (+41 44) 7871040  
F (+41 44) 7871044  
E [info.ch@eurotherm.com](mailto:info.ch@eurotherm.com)

### UNITED KINGDOM Worthing

Eurotherm Limited  
T (+44 1903) 268500  
F (+44 1903) 265982  
E [info.uk@eurotherm.com](mailto:info.uk@eurotherm.com)  
[www.eurotherm.co.uk](http://www.eurotherm.co.uk)

### U.S.A. Leesburg VA

Eurotherm Inc.  
T (+1 703) 443 0000  
F (+1 703) 669 1300  
E [info.us@eurotherm.com](mailto:info.us@eurotherm.com)  
[www.eurotherm.com](http://www.eurotherm.com)

ED53

© Copyright Eurotherm Limited 2007

Invensys, Eurotherm, the Eurotherm logo, Chessell, EurothermSuite, Mini8, Eycan, Eyriss and Wonderware are trademarks of Invensys plc, its subsidiaries and affiliates. All other brands may be trademarks of their respective owners.

All rights are strictly reserved. No part of this document may be reproduced, modified, or transmitted in any form by any means, nor may it be stored in a retrieval system other than for the purpose to act as an aid in operating the equipment to which the document relates, without the prior written permission of Eurotherm limited.

Eurotherm Limited pursues a policy of continuous development and product improvement. The specifications in this document may therefore be changed without notice. The information in this document is given in good faith, but is intended for guidance only.

Eurotherm Limited will accept no responsibility for any losses arising from errors in this document.