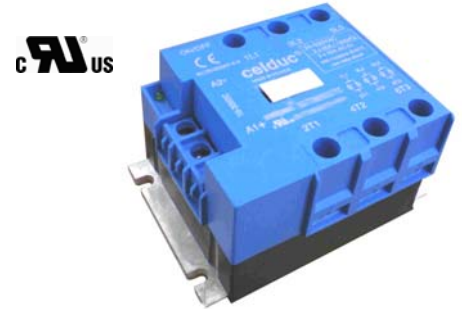


Relais Statique Triphasé

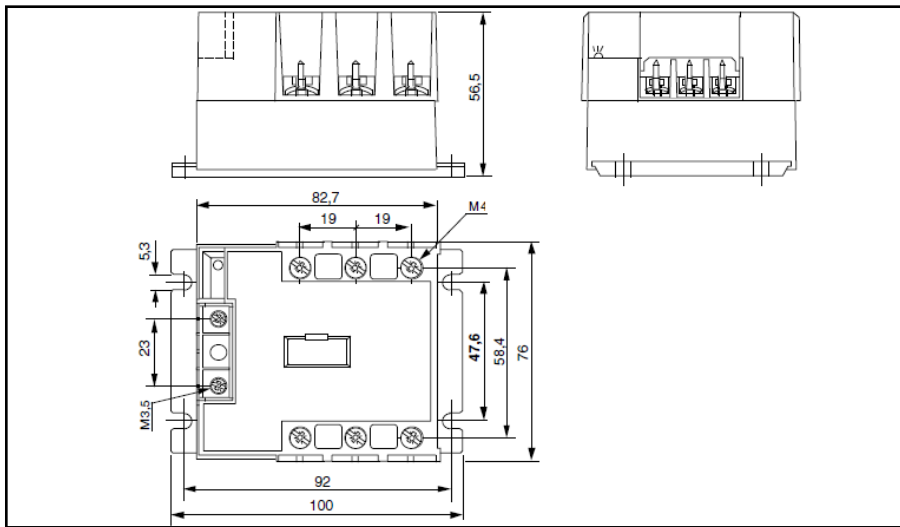
Three Phase Solid State Relays SVT864394E

Entraxe 47,5mm / 4,7,5mm mounting 24 to 520 VAC - 50ARMS

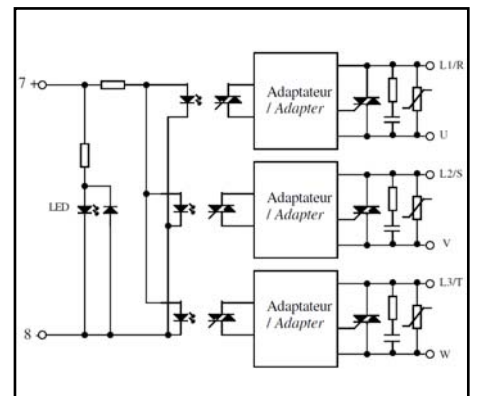
- Sortie AC Synchrones. / Pilotage de tout type de charge .
- Commande 8,5-30VC - LED
- IP20 - protection par réseau RC et VDR -
- Technologie thyristors
- Zero cross AC output . / Designed for all type of load.
- 8,5-30VDC control voltage - LED
- IP20 - RC and VDR protection
- Thyristors technology



Dimensions / Dimensions:



Circuit équivalent/Equivalent circuit :



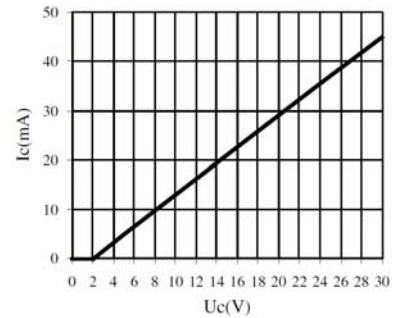
Caractéristiques de commande (à 20°C) / Control characteristics (at 20°C)

| Paramètre / Parameter | Symbol | DC | | | Unit |
|--|--------|-----|-----|-----|------|
| | | Min | Nom | Max | |
| Tension de commande / Control voltage | Uc | 8,5 | 24 | 30 | V |
| Courant de commande / Control current (@ Uc) | Ic | 10 | 35 | 45 | mA |
| Tension de relachement/Release voltage | Uc off | 4 | | | V |
| Résistance interne / Input internal resistor fig.1 | Rc | | 620 | | Ω |
| Tension inverse / Reverse voltage | Urv | | 30 | | V |

fig. 1 :Caractéristique d'entrée / Control characteristic

Caractéristiques d'entrée-sortie (à 20°C) / Input-output characteristics (at 20°C)

| | | | | | |
|--|------|--|------|--|------|
| Isolement entrée-sortie/Input-output isolation @500m | Ui | | 4000 | | VRMS |
| Isolement sortie-semelle/Output-case isolation @500m | Ui | | 3300 | | VRMS |
| Tension assignée isolement/ Rated impulse voltage | Uimp | | 4000 | | V |



Caractéristiques générales / General characteristics

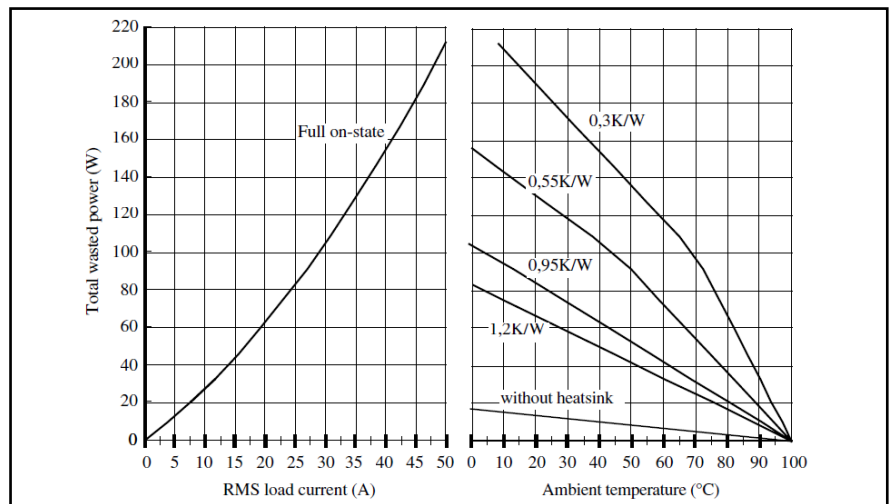
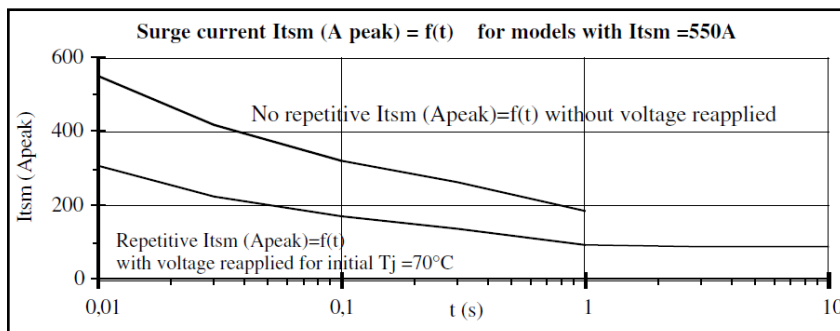
| Paramètre / Parameter | Conditions | Symbol | Typ. | Unit |
|--|------------|--------|------------|------|
| Poids/Weight | | | 410 | g |
| Plage de température de stockage / Storage temperature range | | | -40 / +100 | °C |
| Plage de température de fonctionnement/Operating temperature range | | | -40 / +100 | °C |

Proud to serve you

All technical characteristics are subject to change without previous notice.
Caractéristiques sujettes à modifications sans préavis.

Caractéristiques de sortie (à 20°C) / Output characteristics (at 20°C)

| Paramètre / Parameter | Conditions | Symbol | Min | Typ. | Unit |
|--|-----------------------|-------------------|-----------------|------|------------------|
| Tension de charge / Load voltage | | Ue | 400 | | V rms |
| Plage tension de fonctionnement / Operating range | (480Vrms + 10%) | Uemax | 530 | | V rms |
| Tension crête / Peak voltage | | Up | 1200 | | V |
| Niveau de synchronisation / Synchronizing level | | U _{sync} | 12 | | V |
| Tension d'amorçage / Latching voltage | Ie nom | Ua | 10 | | V |
| Courant nominal AC-51/ AC-51 nominal current | (see Fig. 2) | Ie AC-51 | 50 | | A rms |
| Courant nominal AC-53/ AC-53 nominal current | (see Fig. 2) | Ie AC-53 | 12 | | A rms |
| Courant de surcharge non répétitif / Non repetitive overload current | tp=10ms (Fig. 3) | Itsm | 700 | 750 | A |
| Chute tension directe crête/ On state voltage drop | @ Ie nom | Vd | 1,4 | | V |
| Courant de fuite état bloqué/ Off state leakage current | @ Ue, 50Hz | I _{lk} | 5 | | mA |
| Courant de charge minimum / Minimum load current | | Ie min | 5 | | mA |
| Temps de fermeture/ Turn on time | Uc nom DC ,f=50Hz | ton max | 10 | | ms |
| Temps d'ouverture/ Turn off time | Uc nom DC ,f=50Hz | toff max | 10 | | ms |
| Plage de fréquence / Operating frequency range | | f | 10-440 | | Hz |
| dv/dt état bloqué / Off state dv/dt | | dv/dt | 500 | | V/μs |
| dI/dt maximum non répétitif/ Maximum di/dt non repetitive | | di/dt | 50 | | A/μs |
| I ² t (<10ms) | | I ² t | 2450 | 2800 | A ² s |
| EMC Test d'immunité conduite / Conducted immunity level | IEC 1000-4-4 (burst) | | 2kV criterion A | | |
| EMC Test d'immunité conduite / Conducted immunity level | IEC 1000-4-5(schocks) | | 2kV criterion A | | |
| Conformité / Conformity | EN60947-4-x | | | | |

**Caractéristiques thermiques/
thermal curves :**Fig.3 Courbes de surcharge de courant /
Overload current curves

1 -Itsm non répétitif sans tension réappliquée est donné pour la détermination des protections.
No repetitive Itsm is given without voltage reapplied for the determination of the protection.

2 -Itsm répétitif est donné pour des surcharges de courant (Tj initiale=70°C). La répétition de ces surcharges de courant diminue la durée de vie du Relais.

Repetitive Itsm is given for inrush current with initial Tj = 70°C. The repetition of the surge current decrease the lifetime SSR's .

Précautions :

* Les relais à semiconducteurs ne procurent pas d'isolation galvanique entre le réseau et la charge.

Cautions :

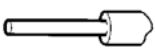

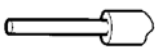

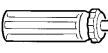

* Semiconductor relays don't provide any galvanic insulation between the load and the mains.

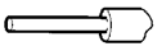

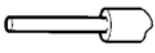

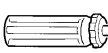



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| SVT | | | | | | Cablage commande / Wiring of the control circuit: | |
|---|---|---|---|--|---|--|--|
| nombre de fils/ NUMBER OF WIRES | | | | SCREWDRIVER TYPE | | MINIMUM TORQUE couple serrage | |
| 1 | | 2 | | tournevis | tournevis | | |
| SOLID (No ferrule) rigide sans embout | FINE STRANDED (With ferrule) multibrins avec embouts | SOLID (No ferrule) rigide sans embout | FINE STRANDED (With ferrule) multibrins avec embouts | | | | |
|  |  |  |  |  |  | N.m | |
| 0,75 ... 2,5 mm ² | 0,75 ... 2,5 mm ² | 0,75 ... 2,5 mm ² | 0,75 ... 2,5 mm ² | 0,8 x 5,5 mm | POZIDRIV 2 | 1,2 | |

| SVT | | | | | | Cablage puissance / Wiring of the power circuit: | |
|---|---|---|---|--|---|---|--|
| NUMBER OF WIRES | | | | SCREWDRIVER TYPE | | MINIMUM TORQUE couple serrage | |
| 1 | | 2 | | tournevis | tournevis | | |
| SOLID (No ferrule) rigide sans embout | FINE STRANDED (With ferrule) multibrins avec embouts | SOLID (No ferrule) rigide sans embout | FINE STRANDED (With ferrule) multibrins avec embouts | | | | |
|  |  |  |  |  |  | N.m | |
| 1,5 ... 10 mm ² | 1,5 ... 6 mm ² | 1,5 ... 10 mm ² | 1,5 ... 6 mm ² | 0,8 x 5,5 mm | POZIDRIV 2 | 1,8 | |

