

SDD0-1 Series



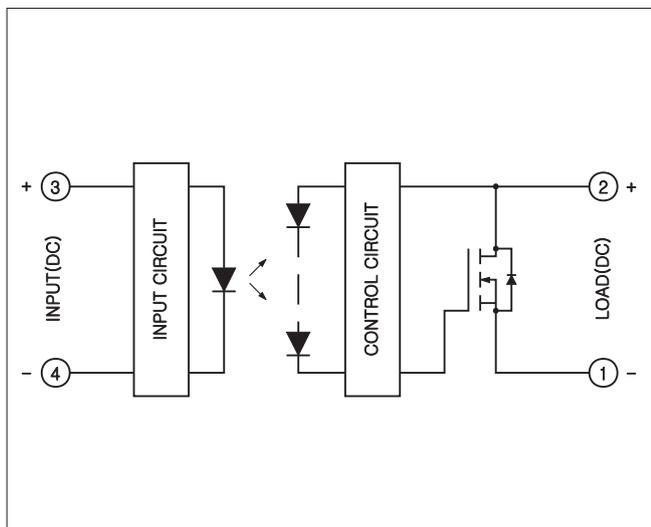
Input DC/Output DC Mold

- 10 - 40Amp DC120V Output
- AC 2500V Isolation
- Normally Open
- LED Indicator
- Panel Mount with Heatsink
- Approved by EN 60947-4-1 Δ and CE

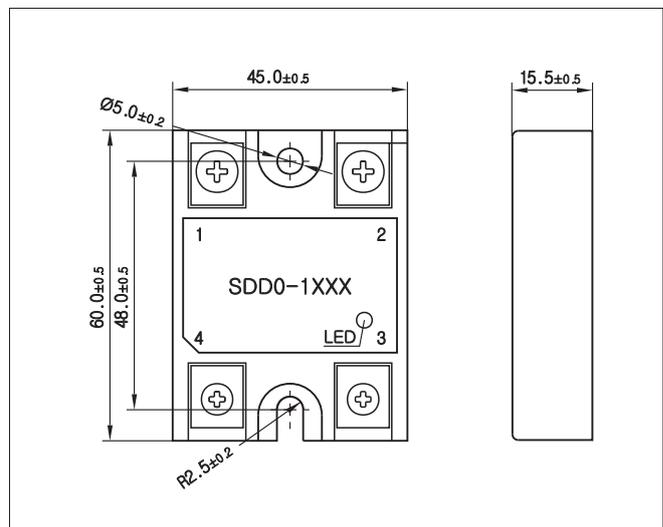
SPECIFICATIONS

| Item | | SDD0-110N | SDD0-120N | SDD0-130N | SDD0-140N | Unit |
|---------|---------------------------|---|-----------|-----------|-----------|------|
| OUTPUT | DC ON-STATE LOAD CURRENT | 10 | 20 | 30 | 40 | Adc |
| | LOAD VOLTAGE RANGE | 5 ~ 120 | | | | Vdc |
| | BLOCKING VOLTAGE | 200 | | | | Vdc |
| | ON-STATE VOLTAGE DROP | 2 Max | | | | Vdc |
| | OFF-STATE LEAKAGE CURRENT | 1 Max | | | | mAdc |
| INPUT | INPUT VOLTAGE RANGE | 4 ~ 32 | | | | Vdc |
| | PICK-UP VOLTAGE | 4 Max | | | | Vdc |
| | DROP-OUT VOLTAGE | 1 Min | | | | Vdc |
| GENERAL | ISOLATION VOLTAGE | 2,500Vrms between I/O terminals and case for 1 minute | | | | / |
| | ISOLATION RESISTANCE | 500Vdc 100Mohm between I/O terminals and case | | | | / |
| | OPERATING TEMPERATURE | -30 ~ +80 | | | | °C |
| | STORAGE TEMPERATURE | -30 ~ +100 | | | | °C |
| | TURN-ON TIME | 1 Max | | | | msec |
| | TURN-OFF TIME | 1 Max | | | | msec |
| | APPROVALS | TUV.CE | TUV.CE | TUV.CE | TUV.CE | / |

BLOCK DIAGRAM



DIMENSIONS (UNIT : MM)



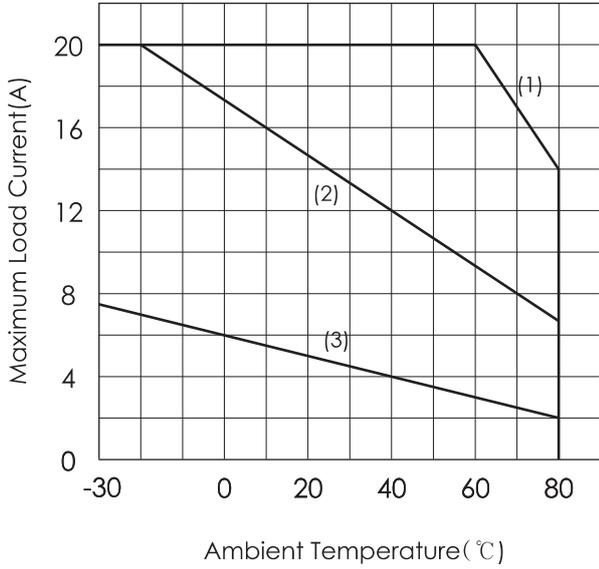
C. 20Amp S.S.R

S.S.R Model

PDD0-220NHS/620NHS

Heatsink

(1)Infinite(2)UHS118-1-60(3)Non



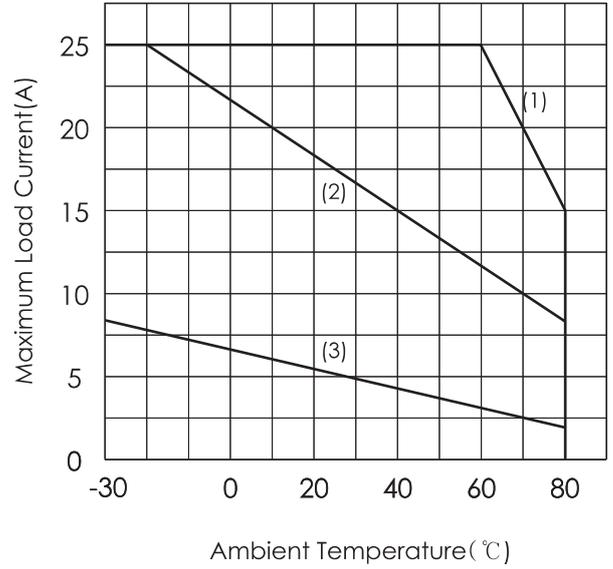
D. 25Amp S.S.R

S.S.R Model

PDA1-225ZHL/225ZHS

Heatsink

(1)Infinite(2)UHS118-1-60(3)Non



3)DC-Output Mold type

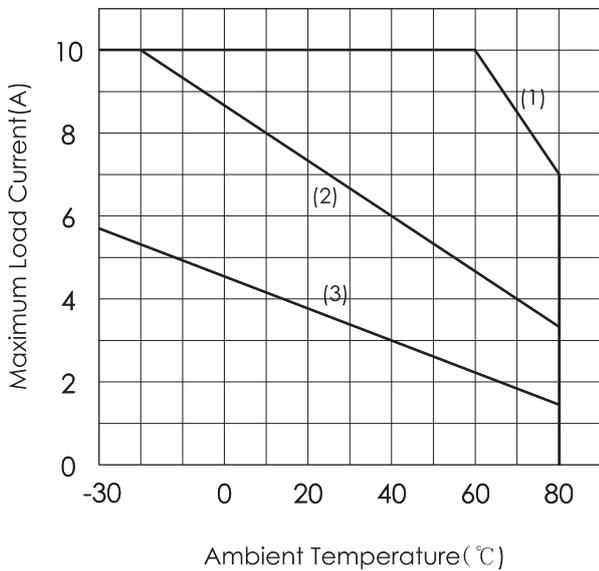
A. 10Amp S.S.R

S.S.R Model

SDD0-110N/210N/610N

Heatsink

(1)Infinite(2)UHS118-1-45(3)Non



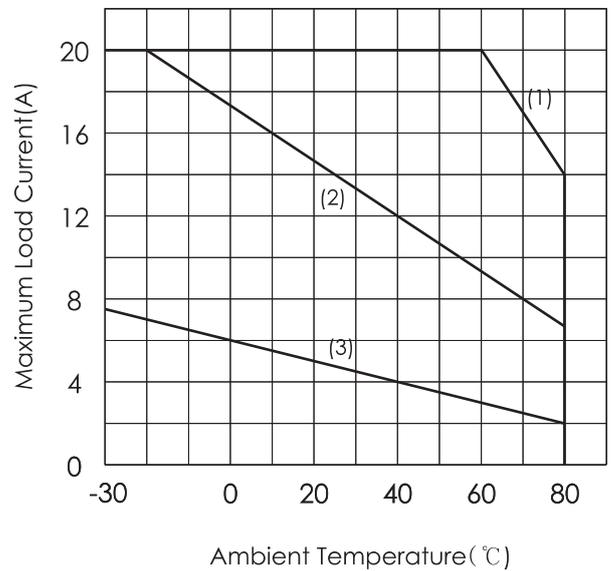
B. 20Amp S.S.R

S.S.R Model

SDD0-120N/220N/620N

Heatsink

(1)Infinite(2)UHS118-1-60(3)Non



S.S.R

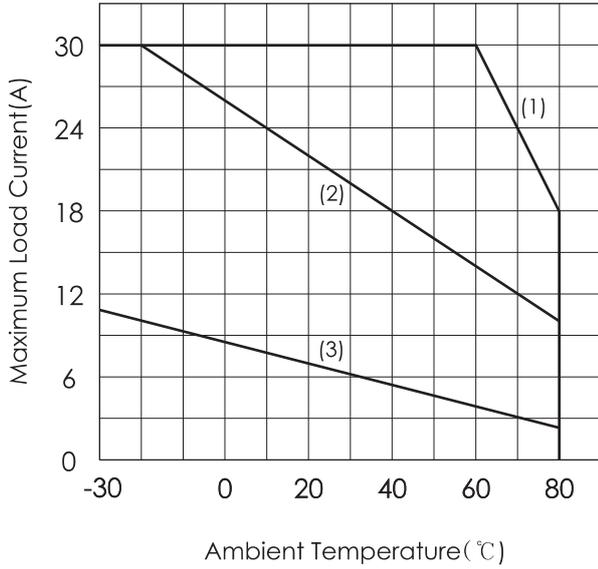
C. 30Amp S.S.R

S.S.R Model

SDD0-130N/230N/630N

Heatsink

(1)Infinite(2)UHS118-1-80(3)Non



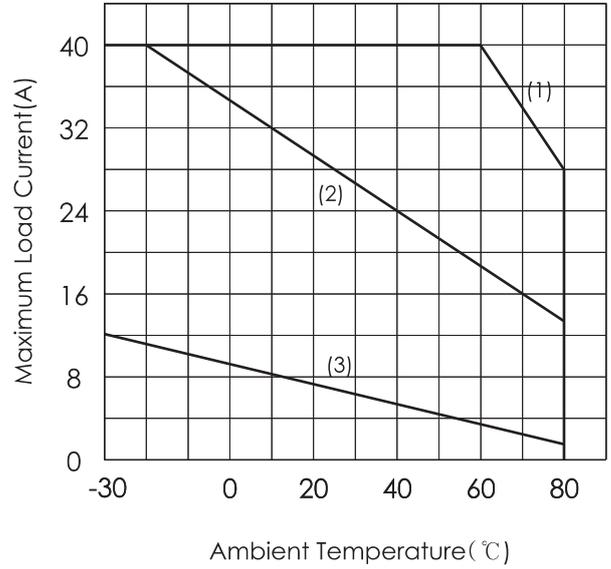
D. 40Amp S.S.R

S.S.R Model

SDD0-140N/240N/640N

Heatsink

(1)Infinite(2)UHS118-1-80(3)Non



4)1-Phase Mold type

A. 15Amp S.S.R

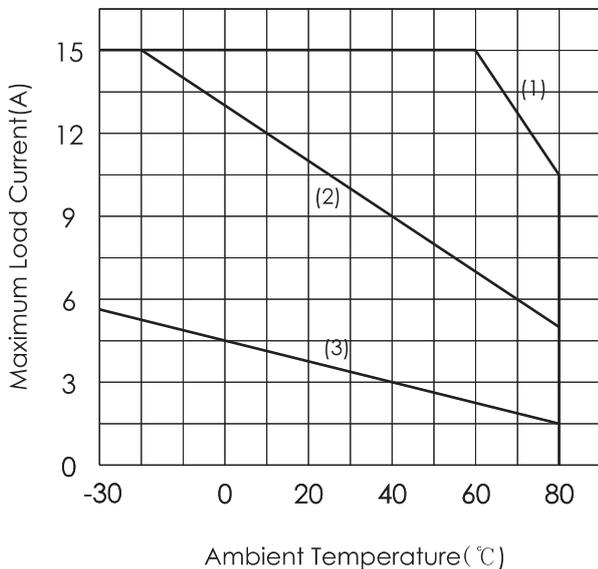
S.S.R Model

SDA1-215Z/215R/415Z/415R

SAA1-215Z/415Z

Heatsink

(1)Infinite(2)UHS118-1-45(3)Non



B. 25Amp S.S.R

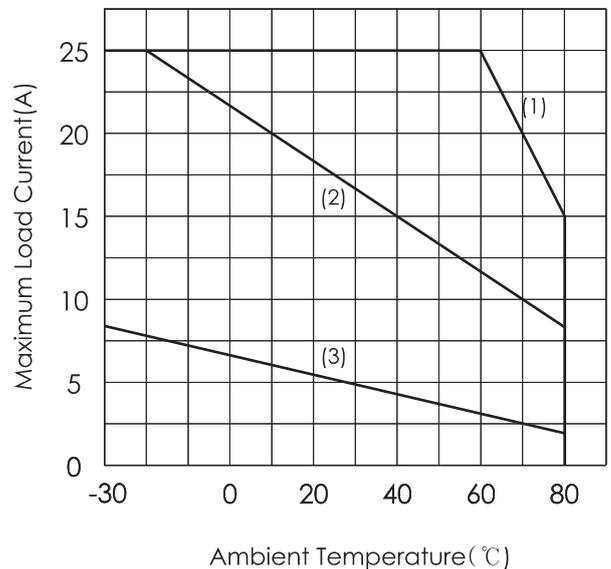
S.S.R Model

SDA1-225Z/225R/425Z/425R

SAA1-225Z/425Z

Heatsink

(1)Infinite(2)UHS118-1-60(3)Non



S.S.R

10. STANDARD HEATSINK

1) UHS118 Series

unit : mm

| MODEL | Length(mm) |
|--------------|------------|
| UHS118-1-45 | 45 |
| UHS118-1-60 | 60 |
| UHS118-1-80 | 80 |
| UHS118-3-120 | 120 |
| UHS118-3-150 | 150 |

2) UHS11 Series

unit : mm

| MODEL | Length(mm) |
|-------------|------------|
| UHS11-1-80 | 80 |
| UHS11-1-105 | 105 |
| UHS11-3-80 | 80 |
| UHS11-3-105 | 105 |
| UHS11-3-150 | 150 |

3) UHS120V80-3-110

unit : mm

Length=110

4) UHS124V128-3-105

unit : mm

Length=105

11. 방열판 선정 가이드

S.S.R 모델별로 차이는 있으나 주위온도 상온에서 부하 전류가 S.S.R 출력 전류 정격의 60% 이하 조건하에 선정된 방열판으로 주위온도가 높거나 부하전류가 큰 경우에는 S.S.R 또는 방열판을 변경하여 적용해야 한다.

| S.S.R 정격구분 | S.S.R모델명 | HEATSINK |
|------------|---|--------------|
| 2A | PDA1-202Z/202R | NON |
| 3A | PDA1-203Z/203R, PDD0-103N | NON |
| 5A | PDA1-205Z/205R, PDD0-105N | NON |
| 8A | PDA1-208Z/208R | NON |
| | PDA1-208ZHL/208ZHS PDD0-108NHS/208NHS/608NHS | UHS118-1-45 |
| 10A | SDD0-110N/210N/610N | UHS118-1-45 |
| 15A | PDA1-215ZHL/215ZHS PDD0-115NHS/215NHS/615NHS SDA1-215Z/215R/415Z/415R SAA1-215Z/415Z | UHS118-1-45 |
| | SDA2-215Z/415Z SAA2-215Z/415Z | UHS118-3-120 |
| | SDA3-215Z/415Z SAA3-215Z/415Z | UHS118-3-120 |
| 20A | PDD0-220NHS/620NHS SDD0-120N/220N/620N | UHS118-1-60 |
| 25A | PDA1-225ZHL/225ZHS SDA1-225Z/225R/425Z/425R SAA1-225Z/425Z | UHS118-1-60 |
| | SDA2-225Z/425Z SAA2-225Z/425Z | UHS118-3-120 |
| | SDA3-225Z/425Z SAA3-225Z/425Z | UHS118-3-150 |
| 30A | SDD0-130N/230N/630N | UHS118-1-80 |

| S.S.R 정격구분 | S.S.R모델명 | HEATSINK |
|---------------|---|---|
| 40A | SDD0-140N/240N/640N SDA1-240Z/240R/440Z/440R SAA1-240Z/440Z | UHS118-1-80 |
| | SDA2-240Z/440Z SAA2-240Z/440Z | UHS118-3-150 |
| | SDA3-240Z/440Z SAA3-240Z/440Z | UHS11-3-105 or UHS120V80-3-110 with FAN |
| | SDA1-250Z/250R/450Z/450R SAA1-250Z/450Z | UHS118-1-80 |
| | SDA2-250Z/450Z SAA2-250Z/450Z | UHS11-3-80 |
| | SDA3-250Z/450Z SAA3-250Z/450Z | UHS11-3-150 or UHS124V128-3-105 |
| 60A | SDA1-260R/460R SAA1-260R/460R | UHS11-1-80 |
| | SDA2-260R/460R SAA2-260R/460R | UHS11-3-105 |
| | SDA3-260R/460R SAA3-260R/460R | UHS124V128-3-105 with FAN |
| | SDA1-280R/480R SAA1-280R/480R | UHS11-1-105 |
| | SDA2-280R/480R SAA2-280R/480R | UHS124V128-3-105 |
| | SDA3-280R/480R SAA3-280R/480R | UHS124V128-3-105 with FAN |

기술해설



CERTIFICATE

of Conformity

Low Voltage Directive 73/23/EEC
as last amended by EEC Directive 93/68/EEC

Registration No.: AN 2137523 01

Report No.: E 2068830 Z 03

Holder: Union Elecom Co., Ltd.
34-2 Samjung Dong, Ojung Gu
Bucheon, Gyeonggi Do, 421-150
R.O.K.

Product: HALBLEITERRELAIS
(Solid State Relay)

Identification: Type Designation: Suvw-xyyt
Serial Number: N/A (prototype)

Remark: This license is based on license R 2037941.

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive 73/23/EEC, in its latest amended version, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex III of the Directive.

Certification Body

Cologne, 24.09.2001



U. Roessiger
Dipl.-Ing. U. Roessiger

TÜV Rheinland Product Safety GmbH - Am Grauen Stein - D-51105 Köln

Ⓒ The CE marking may be used if all relevant and effective EC Directives are complied with. Ⓒ

Zertifikat Certificate



Zertifikat Nr. Certificate No.
R 2037941

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03

Ihr Zeichen Client Reference
T.W. Kim

Unser Zeichen Our Reference
00143-KIS/yy- E2068830Z03

Ausstellungsdatum Date of Issue
24.09.2001 (day/mo/yr)

Genehmigungsinhaber License Holder
Union Elecom Co., Ltd.
34-2 Samjung Dong, Ojung Gu
Bucheon, Gyeonggi Do, 421-150
R.O.K.

Fertigungsstätte Manufacturing Plant
Union Elecom Co., Ltd.
34-2 Samjung Dong, Ojung Gu
Bucheon, Gyeonggi Do, 421-150
R.O.K.

Prüfzeichen Test Mark



Geprüft nach Tested acc. to

IEC 60158-2:1982
EN 60947-4-1:1992+A1+A2

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)
HALBLEITERRELAIS (Solid State Relay)

Lizenzentgelte - Einheit
License Fee - Unit

Change

Type designation: Suvw-xyyt 2

u stands for: Input source (D=DC, A=AC)
v stands for: Output source (D=DC, A=AC)
w stands for: Number of poles
(0=DC, 1=1 pole, 2=2 poles,
3=3 poles)
x stands for: Output voltage
(1=120V DC, 2=240V AC, 4=460V AC,
for SDD0-xyyt only; 2=24V DC,
6=60V DC)
yy stands for: Output current
(10=10A DC, 15=15A AC, 20=20A DC,
25=25A AC, 30=30A DC, 40=40A AC
or DC, 50=50A AC)

Continued on page 04

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product
fulfills above mentioned requirements, the production is subject to surveillance.

Zertifizierungsstelle

Dipl.-Ing. U. Roessiger

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln



Zertifikat Certificate



Zertifikat Nr. Certificate No.
R 2037941

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04

Ihr Zeichen Client Reference
T.W. Kim

Unser Zeichen Our Reference
00042-KIS/yy- E2068830Z03

Ausstellungsdatum Date of Issue
24.09.2001 (day/mo/yr)

Genehmigungsinhaber License Holder
Union Elecom Co., Ltd.
34-2 Samjung Dong, Ojung Gu
Bucheon, Gyeonggi Do, 421-150
R.O.K.

Fertigungsstätte Manufacturing Plant
Union Elecom Co., Ltd.
34-2 Samjung Dong, Ojung Gu
Bucheon, Gyeonggi Do, 421-150
R.O.K.

Prüfzeichen Test Mark



Geprüft nach Tested acc. to

IEC 60158-2:1982
EN 60947-4-1:1992+A1+A2

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

HALBLEITERRELAIS (Solid State Relay)

Continuation

t stands for: Trigger form
(Z=zero cross, R=random cross,
N=DC)

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product
fulfills above mentioned requirements, the production is subject to surveillance.

Zertifizierungsstelle

U. Roessiger

Dipl.-Ing. U. Roessiger



TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 02037941

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0005

Ihr Zeichen *Client Reference*
J.J. S

Unser Zeichen *Our Reference*
ZKR3-KIS- 02068830 004

Ausstellungsdatum
27.03.2007

Date of Issue
(day/mo/yr)

Genehmigungsinhaber *License Holder*

Union Elecom Co., Ltd.
(Chunui Techno Park 1st 1207~1211)
200-1m Chunui-dong, Wonmi-gu,
Bucheon, Gyeonggi-do 420-857
Rep. of Korea

Fertigungsstätte *Manufacturing Plant*

Union Elecom Co., Ltd.
(Chunui Techno Park 1st 1207~1211)
200-1m Chunui-dong, Wonmi-gu,
Bucheon, Gyeonggi-do 420-857
Rep. of Korea

Prüfzeichen *Test Mark*

Geprüft nach *Tested acc. to*
EN 60947-4-3:2000



Zertifiziertes Produkt *(Geräteidentifikation)*
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Semi Conductor Relay Solid State Relay

Änderung
(Change)

Prüfgrundlage : IEC 60158-2:1982
(Test Requirement) EN 60947-4-1:1992+A1+A2

ändert sich in : siehe oben
(changed to) (see above)

Remark: DC ratings comply with DC-1 of EN 60947-4-1.

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product
fulfills above mentioned requirements, the production is subject to surveillance.

Zertifizierungsstelle

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln
Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

Dipl.-Ing. D. Löffler

