

NAME Customer drawing
Product Specification
Forcibly guided relay SR6

DWG NO: 2158003
OPTIONAL NO SR6_Spec

REVISION
A1

Department:
RPG D&E Appl

Drawer:
Knut Dankert 24.06.2010

Approved:
Frank Liebusch 05.07.2010

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Switzerland

Manufacturer
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A-3830 Waidhofen/Thaya
Austria

**Neutral, monostable relay SR6
with 6 or 4 forcibly guided contacts according to EN50205 class A
PCB relay for DC operation**

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Version history

-----	A1	10-07-05	Bittermann	New drawing
ECR-NO.:	Rev	Date	Name	Info

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Attachment:

Quality alert form

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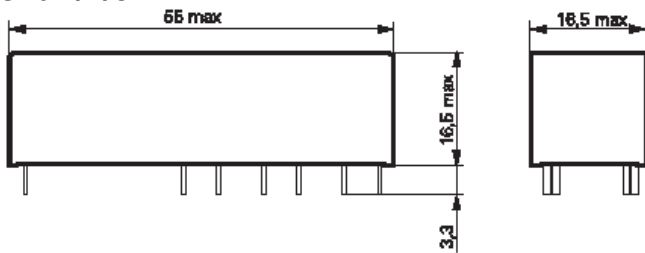
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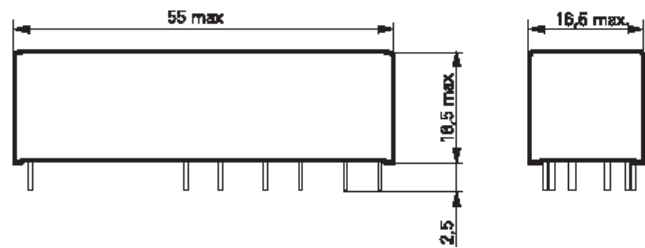
1 Dimensions

1.1 Dimensional drawing (in mm)

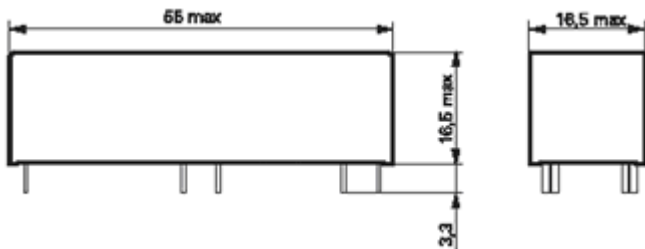
SR6 A/B/C



SR6 V

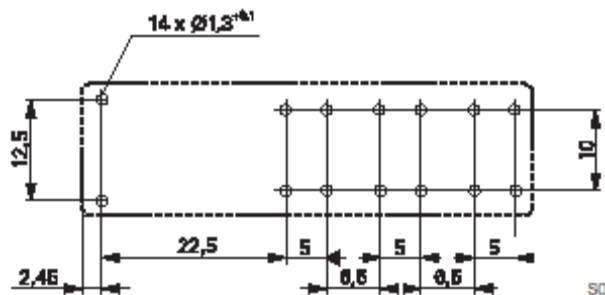


SR6 D/M

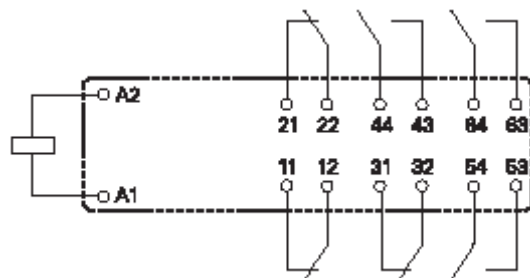


1.2 Mounting hole layout / Terminal assignment (Bottom view)

SR6 A



3 NO + 3 NC version



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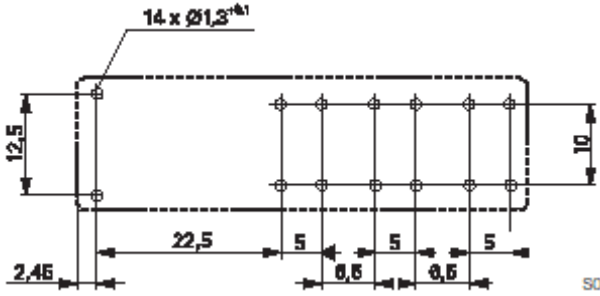
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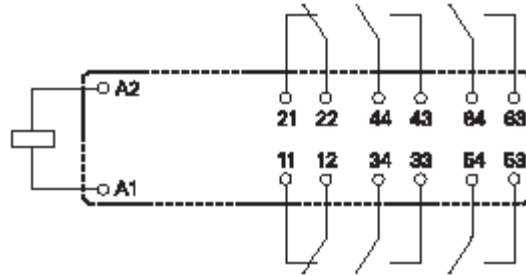
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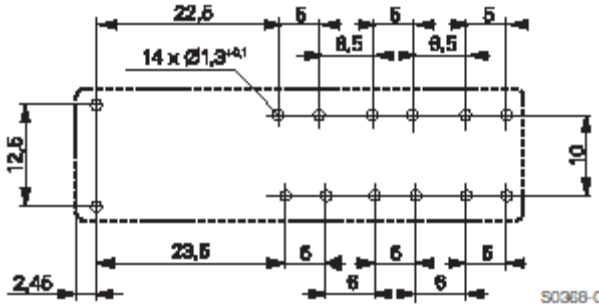
SR6 B



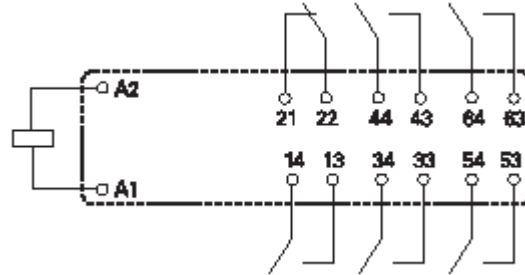
4 NO + 2 NC version



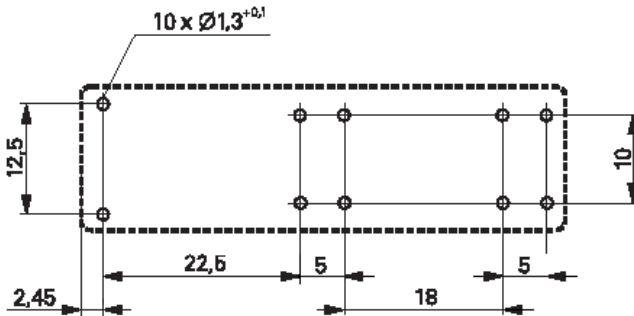
SR6 C



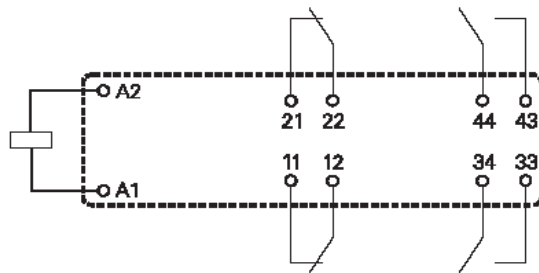
5 NO + 1 NC version



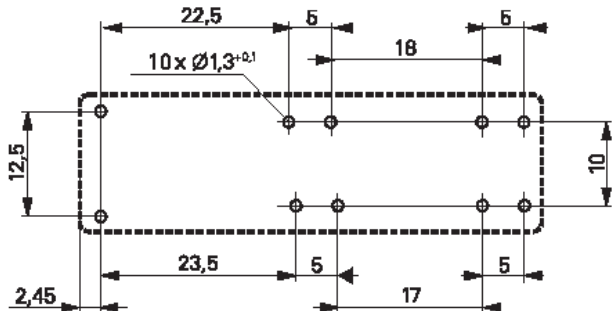
SR6 D



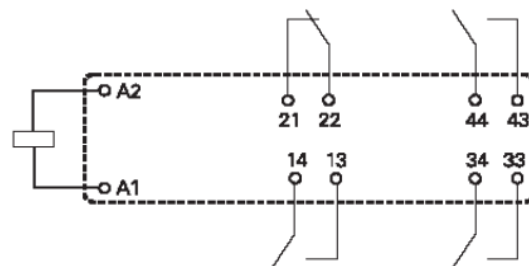
2 NO + 2 NC version



SR6 M



3 NO + 1 NC version



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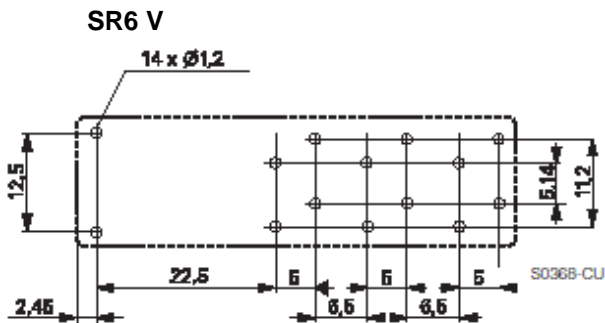
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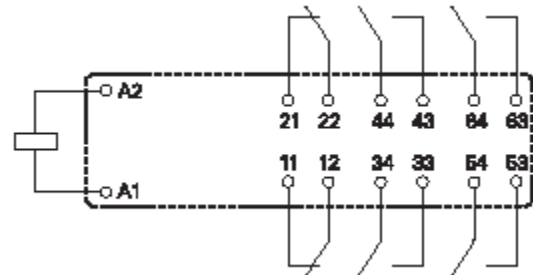
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4 NO + 2 NC version



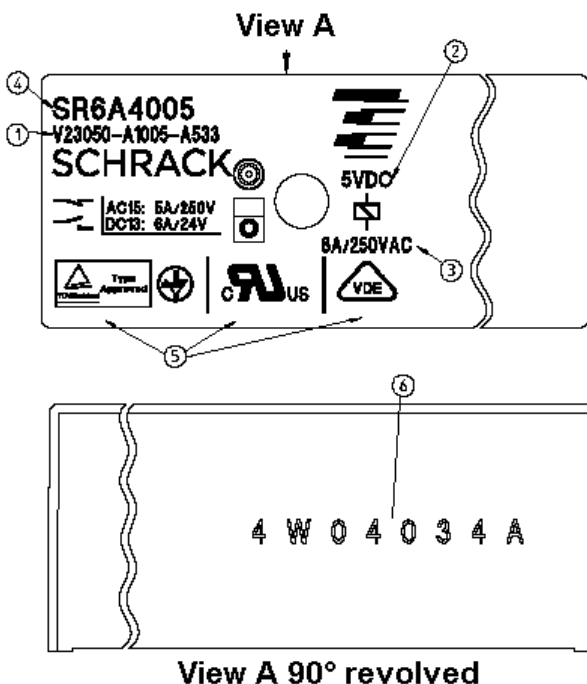
SR6 V allows clearance/creepage of 5.5 mm on the pcb.

Soldering terminals for PCB mounting.

Square coil terminals width 0.5 x 0.5 mm. Rectangular contact terminals width 0.5 x 0.8 mm. All data without tin coating.

The thickness of tin coating lies empirically in the range of 0.08 ... 0.2 mm.

1.3 Marking and Datecode



- ① Relay typ (prior product key 1200mW version only)
- ② Rated coil voltage and voltage type
- ③ Rated contact load
- ④ Relay typ (see part code / ordering code)
- ⑤ Approvals
- ⑥ Date code
position 1, 2: plant (Plant Waidhofen/Th = 4W)
position 3, 4: last two digits of production year
position 5, 6: week
position 7: day (1=Monday; 2=Tuesday...)
position 8: shift (A = early; B = afternoon; C = night)

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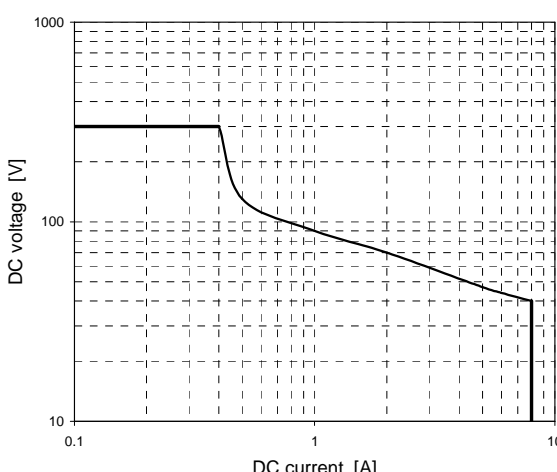
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2 Contact data

[If no otherwise stated all values are given for 23°C ambient temperature]

2.1 Type code (block 2)	A	B and V	C	D	M
2.2 No. of contacts and type	3	4	5	2	3
	3	2	1	2	1
2.3 Contact assembly	single contacts, forcibly guide (linked) according to EN50205 class A				
2.4 Contact material (block 3)	AgSnO ₂ or AgSnO ₂ + 0,2 µm Au				
2.5 Rated / Maximum switching voltage 2.5.1 Maximum breaking capacity AC 2.5.2 Minimum contact load (5V/10mA) 2.5.3 Maximum DC load breaking capacity	250 V _{AC} / 400 V _{AC} 2,000 VA 50 mW 				
2.6 Max. switching current and continuous current at maximum ambient temperature 2.6.1 Overload capacity ! Non Switching ! NO contact I ² t value up to max. 450A for max. 25 ms NC contact I ² t value up to max. 450 A for max. 20 ms 2.6.2 Short circuit protection acc. IEC60947-5-1 Weld-free protection at I _{pSCC} ≥ 1kA with NEOZED Fuse links, size D01; utilization category gL/gG acc. IEC60269-1; IEC60269-3-1; VDE036-T301 Rated fuse link current for NO contact Rated fuse link current for NC contact	1 NO contact: 8 A and (simultaneously) 1 NC contact: 5A and all other contacts: 1A 5060 A ² s 4050 A ² s 10 A 6 A				

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2.7 Electrical endurance and utilization category

2.7.1 Make contact (NO)

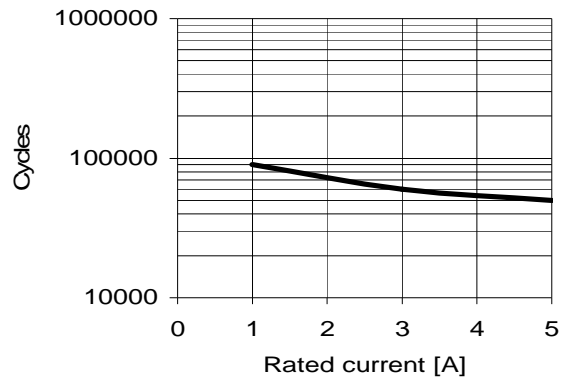
2.7.1.1 AC Inductive loads
 Standard IEC60947-5-1 AC-15 endurance
 1NO contact switch cycle 0.1Hz

2.7.1.2 Utilization category acc. EN60947-5-1
 AC 15

2.7.1.3 UL contact rating B300 Pilot duty

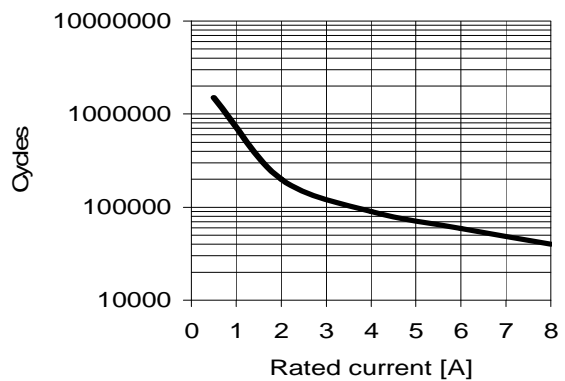
2.7.1.4 AC Resistive loads (Power Factor 1.0)
 Standard IEC60947-4-1 AC-1 endurance
 1NO contact switch cycle 0.1Hz, +70°C,

Characteristically electrical endurance acc.
 IEC60947-5-1 AC-15 Ue=250VAC



Ue 250V / Ie 5A
 6,000 cycles

Characteristically electrical endurance acc.
 IEC60947-5-1 AC-1 Ue=250VAC



Please note:

The electrical endurance graph indicates the typical electrical endurance as "Mean Cycles to Failure" (MCTF) according to Weibull distribution. These statistical data do not guarantee a minimum value.

It is not permissible to deduce electrical endurance information by extrapolation beyond the range indicated by the curves

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Electrical endurance and utilization category (cont.)

Make contact (NO)

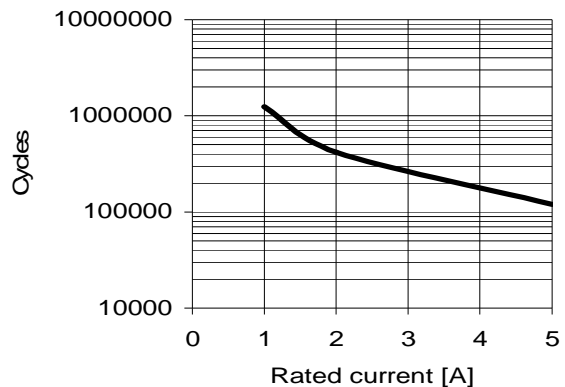
2.7.1.5 DC Inductive loads
 Standard IEC60947-5-1 DC-13 endurance
 1NO contact switch cycle 0.1Hz

2.7.1.6 Utilization category acc. EN60947-5-1
 DC 13

2.7.1.7 UL contact rating R300 Pilot duty

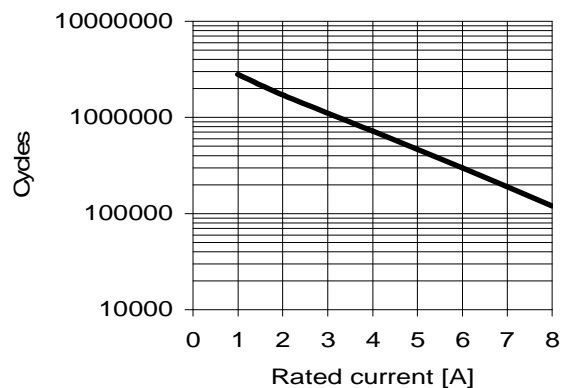
2.7.1.8 DC Resistive loads (L/R 0ms)
 Standard IEC60947-4-1 DC-1 endurance
 1NO contact switch cycle 0.1Hz

Characteristically electrical endurance acc.
 IEC60947-5-1 DC-13 Ue=24VDC



Ue 24V / Ie 6A
 6,000 cycles

Characteristically electrical endurance acc.
 IEC60947-5-1 DC-1 Ue=24VDC



Please note:

The electrical endurance graph indicates the typical electrical endurance as "Mean Cycles to Failure" (MCTF) according to Weibull distribution. These statistical data do not guarantee a minimum value.

It is not permissible to deduce electrical endurance information by extrapolation beyond the range indicated by the curves

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<p>Electrical endurance and utilization category (cont.)</p> <p>2.7.2 Break contact (NC)</p> <p>2.7.2.1 AC Inductive loads</p> <p>2.7.2.2 AC Resistive loads (Power Factor 1.0) $I_e=8A, U_e=250V_{AC}$, switch cycle 0.1Hz, +70°C, 1NC contact: 8A</p> <p>2.7.2.3 DC Inductive loads</p> <p>2.7.2.4 DC Resistive loads (L/R 0ms)</p>	$\geq 20,000$ cycles	
<p>2.8 Maximum contact resistance during electrical endurance (voltage drop at closed contacts)</p> <p>2.8.1 For loads $\geq 1 A / 24 V$</p> <p>2.8.2 For loads $\geq 10 mA / 5 V$</p>	$\leq 100 m\Omega (100 mV)$ $\leq 20 \Omega (200 mV)$	
<p>2.9 B_{10d} values for safety-related control systems of machinery</p> <p>Dangerous Failure mode: Failure to open of a relay contact or insulation failure</p> <p>AC1 $U_e = 250V; T_{AMB} + 70^\circ C$</p> <p>2.9.1 $I_e = 8 A; 1 N/O$</p> <p>2.9.2 $I_e = 4A; 1 N/O$</p> <p>2.9.3 $I_e = 2A; 1 N/O$</p> <p>AC15 $U_e = 250V$</p> <p>2.9.4 $I_e = 5A; 1 N/O$</p> <p>2.9.5 $I_e = 3A; 1 N/O$</p> <p>2.9.6 $I_e = 1A; 1 N/O$</p> <p>DC13 $U_e = 24V$</p> <p>2.9.7 $I_e = 5A; 1 N/O$</p> <p>2.9.8 $I_e = 2A; 1 N/O$</p> <p>2.9.9 $I_e = 1A; 1 N/O$</p> <p>Confidence level for all B_{10d} values 80%</p>	1,200 mW coil version 500,000 cycles 860,000 cycles 1'300,000 cycles 300,000 cycles 850,000 cycles 1'100,000 cycles 300,000 cycles 2'000,000 cycles 7'000,000 cycles	800 mW coil version 500,000 cycles 860,000 cycles 1'300,000 cycles 200,000 cycles 230,000 cycles 380,000 cycles 300,000 cycles 2'000,000 cycles 7'000,000 cycles

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3 Coil data

3.1	Magnet system type	DC, neutral, monostable	
3.1.1	Nominal coil voltage range	5...110 V _{DC}	
3.1.2	Nominal coil power consumption	typ. 1,200 mW	typ. 800 mW
3.2	Minimum operate voltage		
3.2.1	At + 23 °C coil temperature	≤ 75 % of U _{Nom}	
3.2.2	At + 70 °C ambient temperature, pre-energizing with 1.1 x U _{NOM} and rated contact current	≤ 85 % of U _{Nom}	
3.3	Minimum release voltage		
3.3.1	At + 23 °C ambient temperature (initial value)	≥ 10 % of U _{Nom}	
3.3.2	At - 40 °C ambient temperature after electrical endurance	≥ 5 % of U _{Nom}	
3.4	Max. non-release voltage at + 70 °C ambient temperature and max. continuous current		
3.4.1	coil pre-energized with 0.5 x U _{Nom}	≤ 50 % of U _{Nom}	
3.4.2	coil pre-energized with 1.1 U _{Nom}	≤ 56 % of U _{Nom}	
3.5	Max. permissible operating voltage		
3.5.1	Loaded with maximum continuous current	130 % of U _{Nom}	150 % of U _{Nom}
3.5.2	Loaded with current < 0.5 A	140 % of U _{Nom}	150 % of U _{Nom}
3.6	Maximum permissible coil / cover temperature	See item 4.5.3 of this specification	

3.7.1 Electrical coil values

Coil code Type code (Block 4)	Nominal voltage V _{DC}	Pull-in voltage V _{DC}	Holding voltage V _{DC}	Release voltage V _{DC}	Coil resistance Ω	Rated coil power mW
005	5	3.8	2.3	0.5	21 ± 10%	1190
012	12	9.0	5.4	0.9	120 ± 10%	1200
018	18	13.5	8.1	1.8	270 ± 10%	1200
021	21	15.8	9.5	2.1	368 ± 10%	1198
024	24	18.0	10.8	2.4	480 ± 10%	1200
048	48	36.0	21.6	4.8	1920 ± 10%	1200
060	60	45.0	27.0	6.0	3000 ± 10%	1200
085	85	63.8	38.3	8.5	6021 ± 10%	1200
110	110	82.5	49.5	11.0	10080 ± 10%	1200

All data are given for coil without preenergization and are measured with pulse shaping coil energization, at ambient temperature of +23°C. Energization with a v voltage ramp might change the given operating values.

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Electrical coil values continued

Coil code Ordering code (Block 4)	Nominal voltage VDC	Pull-in voltage VDC	Holding voltage VDC	Release voltage VDC	Coil resistance Ω	Rated coil power mW
K12	12	9.0	5.4	1.2	180 \pm 10%	800
K15	15	11.3	6.8	1.5	281 \pm 10%	801
K18	18	13.5	8.1	1.8	405 \pm 10%	800
K21	21	15.8	9.5	2.1	551 \pm 10%	800
K24	24	18.0	10.8	2.4	720 \pm 10%	800

All data are given for coil without preenergization and are measured with pulse shaping coil energization, at ambient temperature of +23°C. Energization with a voltage ramp might change the given operating values.

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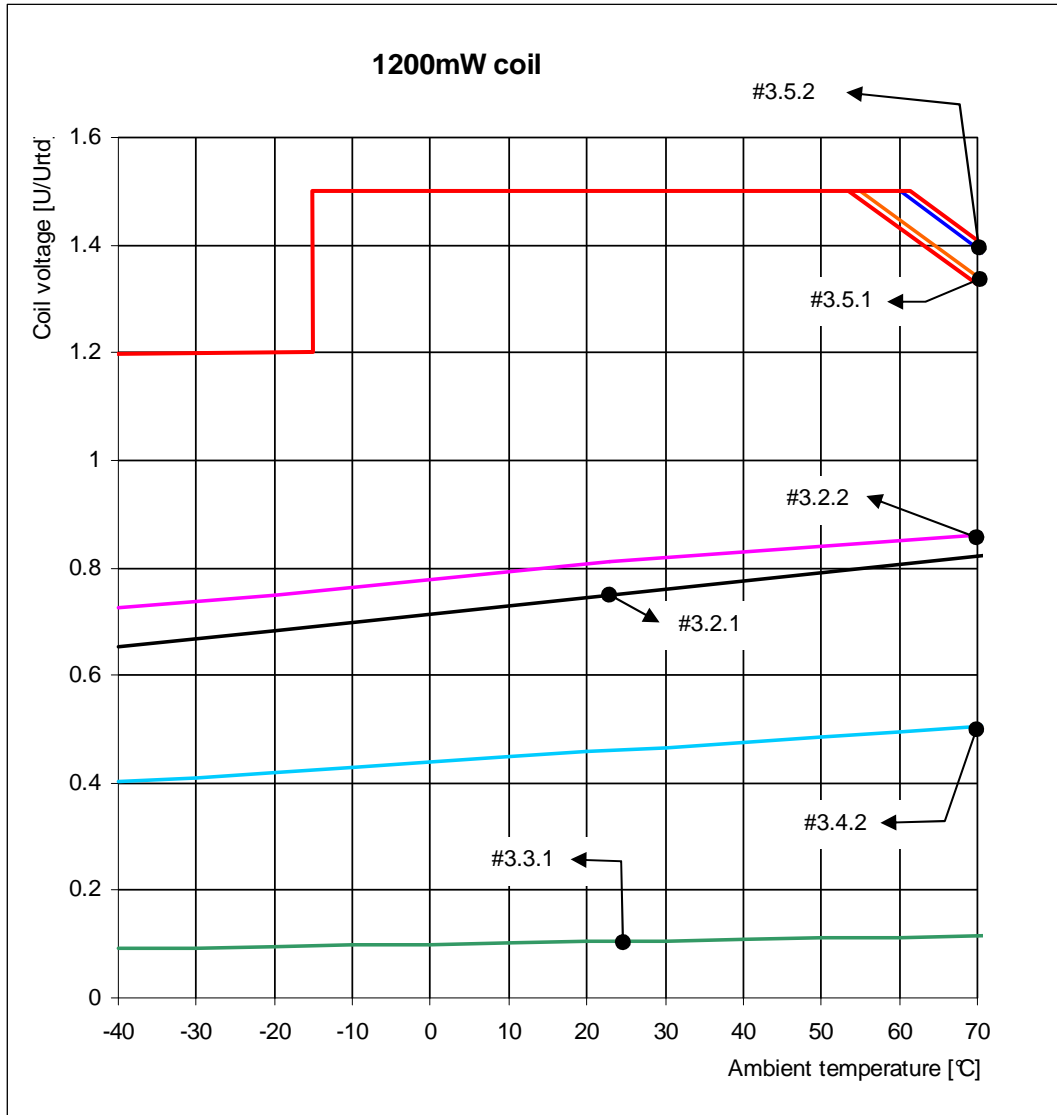
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3.7.2 Coil Operating Range DC (individual mounting >34mm)



- U_{COLD}** = Minimum operate voltage without pre-energizing (cold coil)
- U_{WARM}** = Minimum Minimum operate voltage with 1.1 x U_n pre-energizing and rated contact current (warm coil)
- U_{MAX 1}** = Maximum operating voltage
- U_{MAX 2}** = Maximum operating voltage with < 0.5A contact current
- U_{MAX 3}** = Maximum operating voltage with maximum permissible contact current (4 x 8A)
- U_{HOLDING}** = Holding voltage with 0.5 x U_n pre-energizing coil
- U_{RELEASE}** = Release voltage

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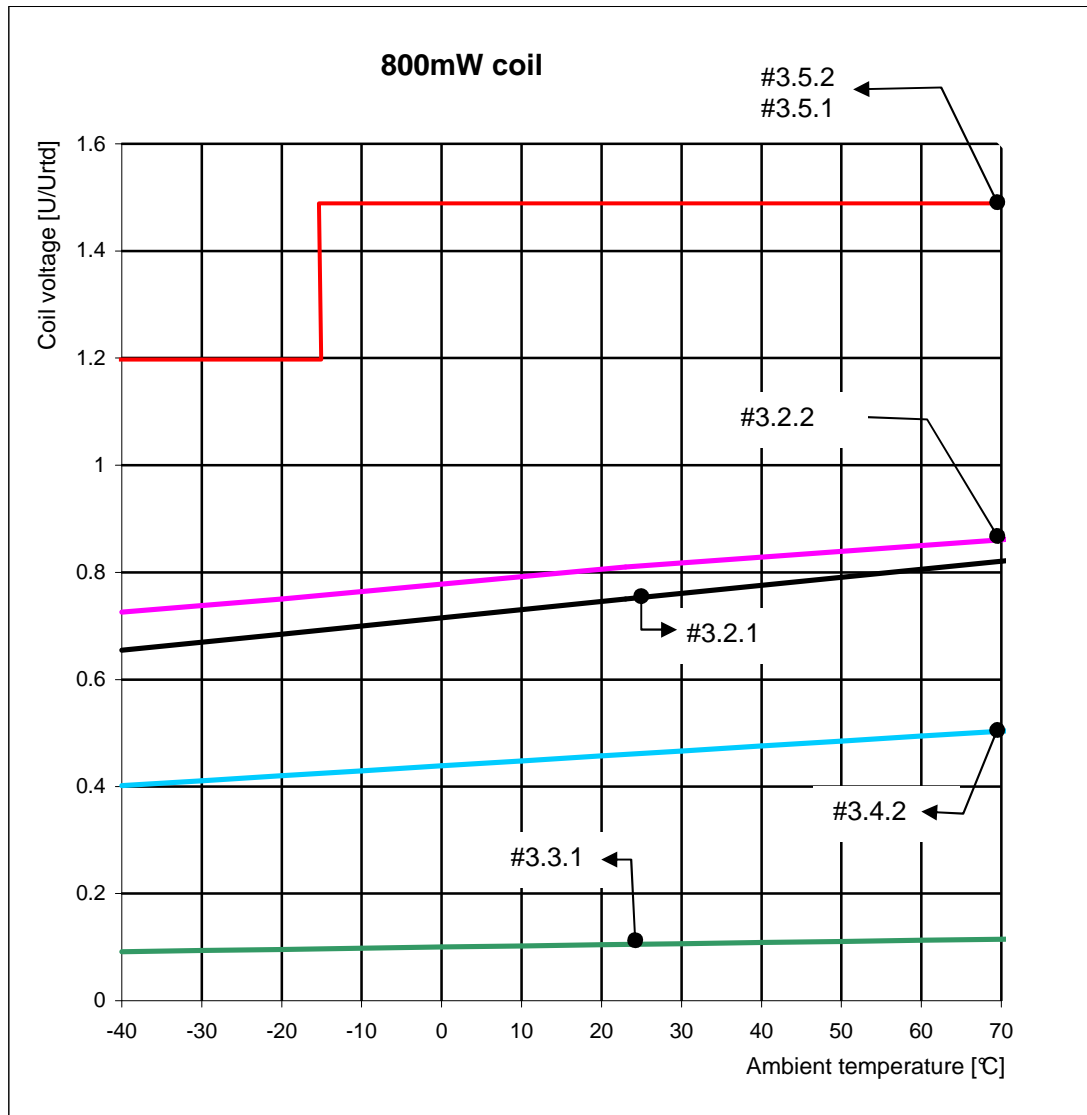
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3.7.3 Coil Operating Range DC (individual mounting >34mm)



- U_{COLD}** = Minimum operate voltage without pre-energizing (cold coil)
- U_{WARM}** = Minimum Minimum operate voltage with 1.1 x Un pre-energizing and rated contact current (warm coil)
- U_{MAX 1}** = Maximum operating voltage
- U_{HOLDING}** = Holding voltage with 0.5 x Un pre-energizing coil
- U_{RELEASE}** = Release voltage

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4 General data

		1200mW coil version	800mW coil version
4.1	Operate times at + 23 °C (cold coil); applied c oil voltage = U_{NOM}		
4.1.1	last close of a NO contact (incl. bounce time)	≤ 15 ms	≤ 20 ms
4.1.2	max. bounce time of the NO contacts	≤ 4 ms	≤ 6 ms
4.2.	Operate times under special conditions		
4.2.1	Operate time at +70 °C (warm coil); applied c oil voltage = 90% U_{NOM} last close of a NO contact (incl. bounce time)	≤ 50 ms	≤ 60 ms
4.2.2	Operate time at - 40 °C (cold coil); applied coil voltage = U_{NOM} last close of a NO contact (incl. bounce time)	≤ 45 ms	≤ 50 ms
4.3	Release times at + 23 °C (cold coil); no parallel diode; applied voltage = U_{Nom}		
4.3.1	last close of a NC contact (incl. bounce time)	≤ 16 ms	≤ 35 ms
4.3.2	max. bounce time of the NC contacts	≤ 13 ms	≤ 30 ms
4.4	Maximum switching rate at rated load / minimum load	360 h ⁻¹ / 18,000 h ⁻¹	
4.5	Ambient temperatures	-25 °C ... + 70 °C For use at - 40°C ... -25°C do not exceed the max. operating voltage of 120 % U_{nom} No condensing or freezing allowed IEC 61810 can only be applied under standardized conditions. Application note SR6_AN_01 must be applied in all other cases.	
4.5.1	Approved ambient temperature range acc. IEC 61810-1		
4.5.2	Terms for use below - 25°C amb. temperature		
4.5.3	Terms for use above 70°C ambient temperature (e.g. self heating in small enclosures)		
4.6	Protection class according IEC61810-1	RT III	
4.7	Mechanical endurance	10,000,000 operations	
4.8	Soldering and processing hints Preheating temperature / max. duration Soldering / max. duration Recommended type of soldering flux PCB cleaning	max. 100 °C / 30 s (measured on PCB surface) max. 260 °C / 5 s all types of 'No-clean flux' Relay is not qualified for any type of washing processes !	
4.9	Mounting position	any	
4.10	Weight	30 g	

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General data (cont.)

4.11	Vibration resistance (fault criterion $\leq 10\mu\text{s}$) according IEC 60068-2-6, Fc test NO contact (30 ... 500 Hz), NC contact (30 ... 500 Hz)	$\geq 20 \text{ g}$ $\geq 3 \text{ g}$
4.12	Shock resistance (fault criterion $\leq 10\mu\text{s}$) according IEC 60068-2-27, Ea test NO contact (half sinus, 11ms) NC contact (half sinus, 11ms)	$\geq 15 \text{ g}$ $\geq 3 \text{ g}$
4.13	Flammability Classifications according UL Base / Actuator / Coil bobbin Cover	94-V0 94-V2

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5 Insulation data (all values are measured at +23°C and 60% relative humidity)

	6 pole versions A / B / C / V	4 pole versions D / M
	5.1 According to IEC 61810-1 / IEC 60664-1	
5.1.1 Rated voltage system	230 / 400 V	230 / 400 V
5.1.2 Rated insulation voltage	250 V	250 V
5.1.3 Pollution degree	2	2
5.1.4 Overvoltage category	III	III
Type of insulation		
5.1.5 coil-contact circuit	basic	basic
5.1.6 open contact circuit	functional	functional
5.1.7 adjacent contacts		
longitudinal direction	basic	reinforced
transversal direction	basic	basic
5.2 Dielectric strength contact – coil circuit	4,000 V _{RMS}	
5.3 Dielectric strength adjacent contact circuits	3,000 V _{RMS}	
5.4 Dielectric strength open contact circuit	1,500 V _{RMS}	
5.5 Clearances / creepage distances according to IEC 61810-1		
5.5.1 Coil – contact	≥ 5.5 / ≥ 5.5 mm	≥ 5.5 / ≥ 5.5 mm
5.5.2 Adjacent contacts longitudinal direction	≥ 5.5 / ≥ 5.5 mm	≥ 15 / ≥ 15 mm
5.5.3 Adjacent contacts transversal direction	≥ 5.5 / ≥ 5.5 mm	≥ 5.5 / ≥ 5.5 mm
5.6 Insulation resistance to EN 61810-1 at 500V _{DC}		
coil-contact circuit	> 100 MΩ	
adjacent contacts	> 100 MΩ	
open contact circuit	> 100 MΩ	
5.7 Tracking resistance of relay base according to IEC 60112	PTI 250	
5.8 Rated surge test voltage to EN50178 (1.2/50μs)		
coil to contact circuit	6,000 V	
adjacent contacts	6,000 V	
5.9 Type of Insulation to EN 50178		
coil to contact circuit	reinforced	
adjacent contacts	reinforced	

NAME Customer drawing
 Product Specification
 Forcibly guided relay SR6

DWG NO: 2158003
 OPTIONAL NO SR6_Spec

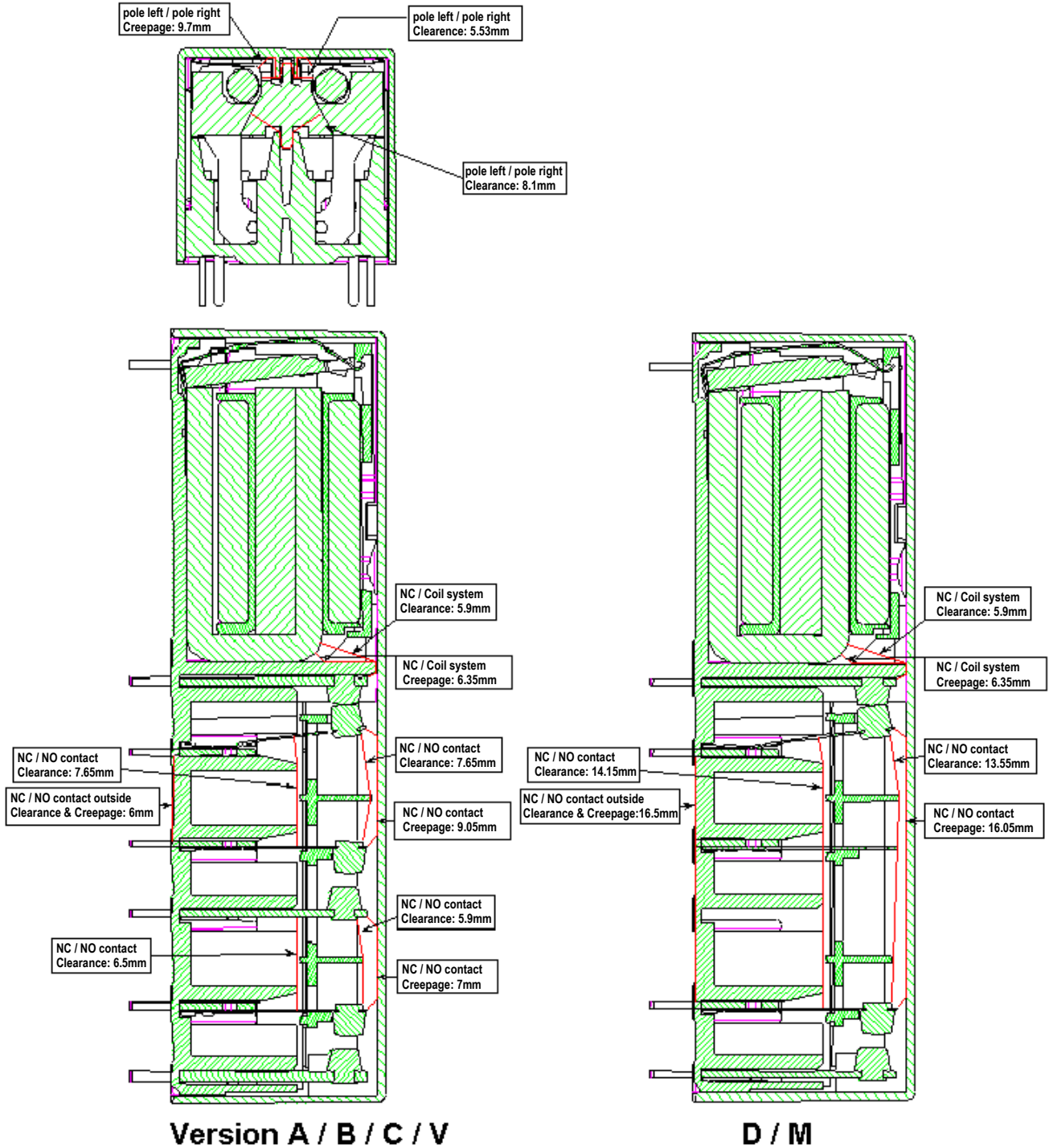
REVISION
 A1

Department:
 RPG D&E Appl

Drawer:
 Knut Dankert 24.06.2010

Approved:
 Frank Liebusch 05.07.2010

5.10 Clearance and creepage distances



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6 Type code

S	R	6				
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Type (Block No. 1)

Contact configuration (Block 2)

- A** 3 NO + 3 NC contacts
- B** 4 NO + 2 NC contacts
- C** 5 NO + 1 NC contacts
- D** 2 NO + 2 NC contacts
- M** 3 NO + 1 NC contacts
- V** 4 NO + 2 NC contacts; 5.5 mm pinning

Contact material (Block 3)

- 4** AgSnO₂
- 6** AgSnO₂ with 0.2µm Au

Coil voltage (Block 4)

DC coil code

Alternative type designation (1200mW only)

V	2	3	0	5	0	-	A	1			-	A	5	
---	---	---	---	---	---	---	---	---	--	--	---	---	---	--

Type

Version

- A1** Standard

Coil voltage (Block 4)

DC coil code

Contact set

- A** single contact





Contact material

- 5** AgSnO₂

Contact configuration

- 33** 3 NO + 3 NC contacts
- 42** 4 NO + 2 NC contacts
- 51** 5 NO + 1 NC contacts

7 Approvals

 Bauart geprüft Type approved	TÜVRheinland, No. 968/EL 350.05/09
	Licence Nr. 128935
	UL File E214024
	COC 06017015576 / COC 06017015577

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8 Packaging

8.1 Carton tube
Size L x W x H
Relay quantity
Weight

620 x 27.5 x 20 mm
10 pcs
0.325kg

Label

800 mW coil version



1200 mW coil version



8.2 Shipper carton
Size L x W x H
Tube / relay quantity
Weight

665 x 170 x 115 mm
25 / 250 pcs
8.50 kg

Label



9 Customs Information

Country of origin
Customs tariff number
Customs part description (Taric-code)

Czech Republic
8536490099
General Purpose Relay 110/230VAC

10 Quality complaint

In case of any problem please fill form on the next page.

Quality alert

Date: (dd.mm.yyyy) _ _ . _ _ . **2 0** _ _

Your complaint will be entered into our global complaint management system. Via e-mail you will receive the name and e-mail address of the quality key-contact, who will handle this complaint and provide you with the 8D-reports.

Please send this sheet in English language to your local Customer Service / Sales Representative of Tyco Electronics. A copy can be sent to cis-emea.qualitycomplaints@tycoelectronics.com (for Europe, Africa and India) or to carma@tycoelectronics.com (for North and South America).

1. contact information

	Tyco Electronics Customer	Final customer (optional)
Company name		
Country		
Adress line 1		
Adress line 1		
Adress line 1		
Contact name		
Telephone number		
Tyco Electronics customer no. (if avail.)		
e-mail adress(es) for 8D-report		

2. delivery information

Type code		TE part no.	- _ - _ - _ - _ -	Customer part no.	
Delivery note no.		Purchase order no		Delivered quantity	
Affected quantities / date code	Qty: 4W _ _ _ _	Qty: 4W _ _ _ _	Qty: 4W _ _ _ _	Qty: 4W _ _ _ _	Qty: 4W _ _ _ _
Relay number(s)					

3. Problem description (numbers relate to the item of the Forcibly Guided Relay product specification)

<input type="checkbox"/> Product return shipment		<input type="checkbox"/> complaint	
<input type="checkbox"/> mixed delivery	<input type="checkbox"/> transportation damage	<input type="checkbox"/> relay does not comply to specification Please tell the spec. item that was hurted by the affected relay(s): _ _ _ _	<input type="checkbox"/> other Description:
<input type="checkbox"/> mixed shipper carton (8.2)	<input type="checkbox"/> defects on carton or tube		
<input type="checkbox"/> mixed carton tube (8.1)	<input type="checkbox"/> defects on relays		
<input type="checkbox"/> mixed single relays			
X Please cross that which does apply.			

4. Product Returns

Prior to returning products to Tyco Electronics, please contact the Customer Service Representative. Only Customer Service will provide authorization. You will receive:

- a RMA-number (Return Material Authorization)
- a return delivery-note including the return-shipment address (if other than below)
- name of the forwarding agent (transport company) and TE account number.

We only accept product return-shipments which are shipped with RMA no. and with the advised forwarding agent. Replacement deliveries must be ordered via Tyco Electronics Customer Service department.

In case of technical complaints we strongly prefer to receive samples of the suspected parts for detailed analysis. Please send the samples (with marking of the affected area) as soon as possible to this adress:

Return shipment adress: Tyco Electronics Austria GmbH, QA SR, Schrackstr. 1, A – 3830 Waidhofen / Thaya

Samples have been returned: <input type="checkbox"/> no <input type="checkbox"/> yes qty: ___	Date: _____	Tracking no: _____	Carrier: _____
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5. Application and failure cause information (in case of different failures please fill separate pages)

Relay number(s): _____	Kind of failure: <input type="checkbox"/> inspection <input type="checkbox"/> qualification test <input type="checkbox"/> field failure		
How was the failure detected?	Relay(s) did not <input type="checkbox"/> switch on <input type="checkbox"/> insulation failed <input type="checkbox"/> switch off		Other (description):
Contacts did not close	<input type="checkbox"/> NO contact no.: ___ <input type="checkbox"/> gap could be seen between contacts	<input type="checkbox"/> NC contact no.: ___ <input type="checkbox"/> high resistance has been measured	
Kind of measurement	<input type="checkbox"/> multimeter	<input type="checkbox"/> applied test load: ___ V ___ mA => voltage drop on contact: ___ V	
How was the relay used?	Est. numbers of switched cycles: _____		special conditions:
Applied coil voltage	___ Vdc	___/___ sec ON/OFF	
Applied contact load	Contact no: ___ (1.3)	___ V <input type="checkbox"/> DC <input type="checkbox"/> AC <input type="checkbox"/> inrush current: ___ A	
	<input type="checkbox"/> resistiv <input type="checkbox"/> inductiv <input type="checkbox"/> other: _____		