

<b>Type</b>	<b>C3-A3x/ ... V</b> Standard relays, 3 change-over contacts		
<b>Maximum contact load</b>	<b>10 A/250</b>	<b>AC-1</b>	<b>0,5 A/110 V DC-1</b>
	<b>10 A/30</b>	<b>DC-1</b>	<b>0,2 A/220 V DC-1</b>
<b>Recommended minimum contact load</b>	<b>10 mA/10 V</b>	<b>Code 0, 9</b>	
	<b>5 mA/5 V</b>	<b>Code 8</b>	

<b>Contacts</b>			
Material	Standard	Code 0	AgNi
	Optional	Code 8	AgNi + 10 μ Au
	Optional	Code 9	AgNi + 0,2 μ Au
Rated current	10 A		
Switch-on current max. (20 ms)	30 A		
Switching voltage max.	250 V		
AC load (Fig 1)	2,5 kVA		
DC load	see Fig. 2		

<b>Coil</b>			
Coil resistance	see table; tolerance ± 10 %		
Pick-up voltage	≤ 0,8 × U <sub>N</sub>		
Release voltage	≥ 0,1 × U <sub>N</sub>		
Nominal power	2,2 VA (AC)/1,3 W (DC)		

<b>Coil table</b>						
VAC	Ω	mA	VDC	Ω	mA	
24	67	92	24	480	50	
48	296	46	48	1K8	26	
115	1K7	19	110	9K	12	
230	7K1	9,5	220	36K1	6	

<b>Insulation</b>		Volt rms, 1 min
Contact open	1000 V	
Contact/contact	2,5 kV	
Contact/coil	2,5 kV	
Insulation resistance at 500 V	≥ 1 GΩ	
Insulation, IEC 61810-1	2,5 kV/3	

<b>Specifications</b>	
Ambient temperature operation/storage	-40 (no ice)...60 °C /-40 ... 80 °C
Pick-up time/bounce time	16 ms/≤ 3 ms
Release time/bounce time	8 ms/≤ 1 ms
Mechanical life ops	AC: 10 Mill./DC: 20 Mill.
DC voltage endurance at rated load	≥ 100000 switching cycles
Switching frequency at rated load	≤ 1200/ops/h
Protection class	IP40
Weight	81 g

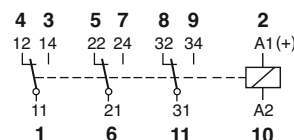
<b>Standard types</b>			
<b>VAC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240)</b>	<b>C3-A30/AC ... V</b>	<b>C3-A38/AC ... V</b>	<b>C3-A39/AC ... V</b>
<b>LED</b>	<b>C3-A30X/AC ... V</b>	<b>C3-A38X/AC ... V</b>	<b>C3-A39X/AC ... V</b>
<b>VDC 24, 48, 110, 220</b>	<b>C3-A30/DC ... V</b>	<b>C3-A38/DC ... V</b>	<b>C3-A39/DC ... V</b>
<b>LED</b>	<b>C3-A30X/DC ... V</b>	<b>C3-A38X/DC ... V</b>	<b>C3-A39X/DC ... V</b>
<b>Free wheeling diode</b>	<b>C3-A30DX/DC ... V</b>	<b>C3-A38DX/DC ... V</b>	<b>C3-A39DX/DC ... V</b>
<b>Polarity and free wheeling diode</b>	<b>C3-A30FX/DC ... V</b>	<b>C3-A38FX/DC ... V</b>	<b>C3-A39FX/DC ... V</b>
<b>AC/DC bridge rectifier 24 V, 48 V, 60 V</b>	<b>C3-A30BX/UC ... V</b>	<b>C3-A38BX/UC ... V</b>	<b>C3-A39BX/UC ... V</b>

"..." Enter the voltage for full type designation

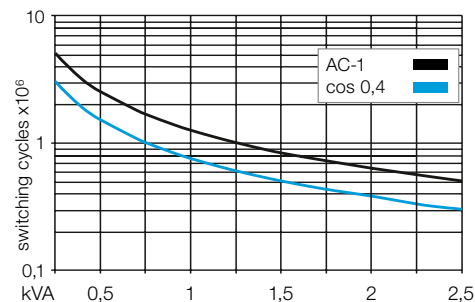
<b>Accessories</b>	
Socket:	<b>S3-B, S3-S, S3-L, S3-P, S3-P0</b>
Optional accessories (blanking plug):	<b>SO-NP, SO-OP</b>
Retaining clip, plastic:	<b>S30-CM</b>



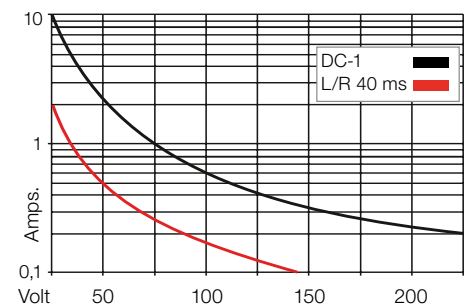
**Connection diagram**



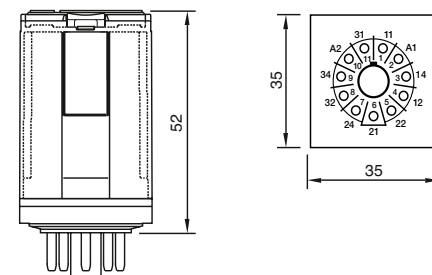
**Fig. 1 AC voltage endurance**



**Fig. 2 DC load limit curve**



**Dimensions [mm]**



**Technical approvals, conformities**



<b>Type</b>	<b>C3-T3x/ ... V</b> Standard relays for low level 3 change-over twin contacts			
<b>Maximum contact load</b>	<b>6 A/250 V</b>	<b>AC-1</b>	<b>6 A/30 V</b>	<b>DC-1</b>
<b>Recommended minimum contact load</b>	<b>5 mA/5 V</b>	<b>Code 1</b>		
	<b>1 mA/5 V</b>	<b>Code 2</b>		

<b>Contacts</b>			
Material	Standard	Code 1	AgNi + 0,2 μ Au
	Optional	Code 2	AgNi + 10 μ Au
Rated current	6 A		
Switch-on current max. (20 ms)	15 A		
Switching voltage max.	250 V		
AC load (Fig 1)	1,2 kVA		
DC load	see Fig. 2		

<b>Coil</b>			
Coil resistance	see table; tolerance ± 10 %		
Pick-up voltage	≤ 0,8 × U <sub>N</sub>		
Release voltage	≥ 0,1 × U <sub>N</sub>		
Nominal power	2,2 VA (AC)/1,3 W (DC)		

<b>Coil table</b>					
VAC	Ω	mA	VDC	Ω	mA
24	67	92	24	480	50
48	296	46	48	1K8	26
115	1K7	19	110	9K	12
230	7K1	9,5	220	36K1	6

<b>Insulation</b>		Volt rms, 1 min
Contact open	1000 V	
Contact/contact	2,5 kV	
Contact/coil	2,5 kV	
Insulation resistance at 500 V	≥ 1 GΩ	
Insulation, EN 61810-1	2,5 kV/3	

<b>Specifications</b>	
Ambient temperature operation/storage	-40 ... 70 °C / -40 ... 80 °C
Pick-up time/bounce time	8 ms/≤ 3 ms
Release time/bounce time	18 ms/≤ 1 ms
Mechanical life ops	AC: 10 Mill./DC: 20 Mill.
DC voltage endurance at rated load	≥ 100000 switching cycles
Switching frequency at rated load	≤ 1200/ops/h
Protection class	IP40
Weight	81 g

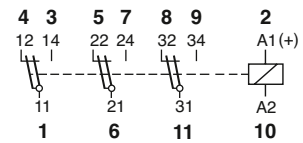
<b>Standard types</b>		
<b>VAC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240) LED</b>	<b>C3-T31/AC ... V</b> <b>C3-T31X/AC ... V</b>	<b>C3-T32/AC ... V</b> <b>C3-T32X/AC ... V</b>
<b>VDC 24, 48, 110, 220 LED</b>	<b>C3-T31/DC ... V</b> <b>C3-T31X/DC ... V</b>	<b>C3-T32/DC ... V</b> <b>C3-T32X/DC ... V</b>
<b>Free wheeling diode</b>	<b>C3-T31DX/DC ... V</b> <b>C3-T31FX/DC ... V</b>	<b>C3-T32DX/DC ... V</b> <b>C3-T32FX/DC ... V</b>
<b>Polarity and free wheeling diode</b>		
<b>AC/DC bridge rectifier 24 V, 48 V, 60 V</b>	<b>C3-T31BX/UC ... V</b>	<b>C3-T32BX/UC ... V</b>

"..." Enter the voltage for full type designation

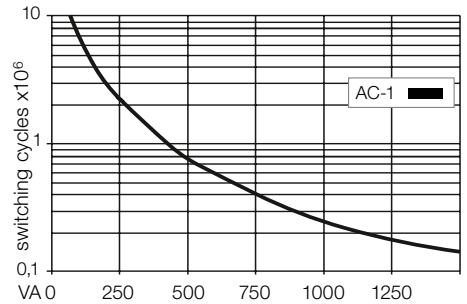
<b>Accessories</b>	
Socket:	<b>S3-B, S3-S, S3-L, S3-P, S3-P0</b>
Optional accessories (blinking plug):	<b>SO-NP, SO-OP</b>
Retaining clip, plastic:	<b>S30-CM</b>



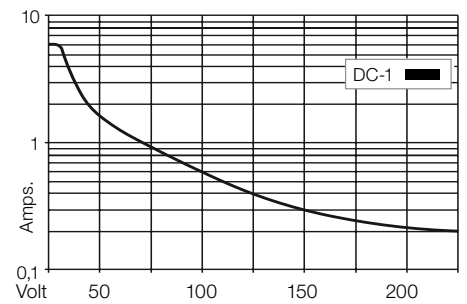
**Connection diagram**



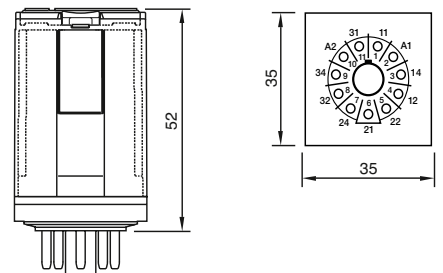
**Fig. 1 AC voltage endurance**



**Fig. 2 DC load limit curve**



**Dimensions [mm]**



**Technical approvals, conformities**



<b>Type</b>	<b>C3-G3x/ ... V</b> Standard relays, DC application 3 open contacts
-------------	--

<b>Maximum contact load</b>	<b>10 A 250 V AC-1</b> <b>1,2 A/110 V DC-1</b> <b>10 A 30 V DC-1</b> <b>0,4 A/220 V DC-1</b>
-----------------------------	---

<b>Contacts</b>			
Material	Standard	Code 0	AgNi
Rated current			10 A
Switch-on current max. (20 ms)			30 A
Switching voltage max.			250 V
AC load (Fig 1)			2,5 kVA
DC load			see Fig. 2

<b>Coil</b>	
Coil resistance	see table; tolerance ± 10 %
Pick-up voltage	≤ 0,8 x U <sub>N</sub>
Release voltage	≥ 0,1 x U <sub>N</sub>
Nominal power	2,4 VA (AC)/1,6 W (DC)

<b>Coil table</b>	<b>VAC</b>	<b>Ω</b>	<b>mA</b>	<b>VDC</b>	<b>Ω</b>	<b>mA</b>
	24	65	100	24	360	66
	48	286	50	48	1K4	34
	115	1K7	21	110	7K6	15
	230	6K8	10	220	30K3	7,5

<b>Insulation</b>		Volt rms, 1 min
Contact open		2000 V
Contact/contact		2,5 kV
Contact/coil		2,5 kV
Insulation resistance at 500 V		≥1 GΩ
Insulation, IEC 61810-1		2,5 kV/3

<b>Specifications</b>	
Ambient temperature operation/storage	-40 (no ice)...60 °C /-40 ... 80 °C
Pick-up time/bounce time	20 ms/≤ 3 ms
Release time/bounce time	8 ms/≤ 1 ms
Mechanical life ops	AC: 10 Mill./DC: 20 Mill.
DC voltage endurance at rated load	≥100000 switching cycles
Switching frequency at rated load	≤ 1200/ops/ h
Protection class	IP40
Weight	81 g

**Standard types**  
**VAC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240)**  
**LED**

**C3-G30/AC ... V**  
**C3-G30X/AC ... V**

**VDC 24, 48, 110, 220**  
**LED**

**C3-G30/DC ... V**  
**C3-G30X/DC ... V**  
**C3-G30DX/DC... V**  
**C3-G30FX/DC ... V**

**Free wheeling diode**  
**Polarity and free wheeling diode**

**C3-G30BX/UC ... V**

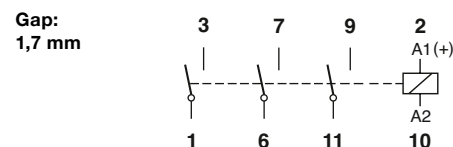
**AC/DC bridge rectifier 24 V, 48 V, 60 V**

"..." Enter the voltage for full type designation

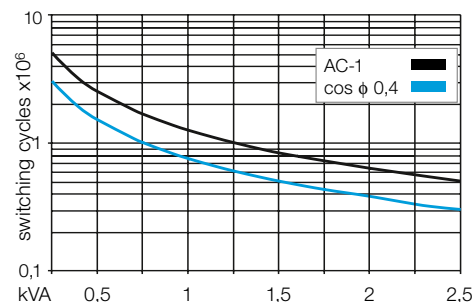
<b>Accessories</b>	
Socket:	<b>S3-B, S3-S, S3-L, S3-P, S3-P0</b>
Optional accessories (blanking plug):	<b>SO-NP, SO-OP</b>
Retaining clip, plastic:	<b>S30-CM</b>



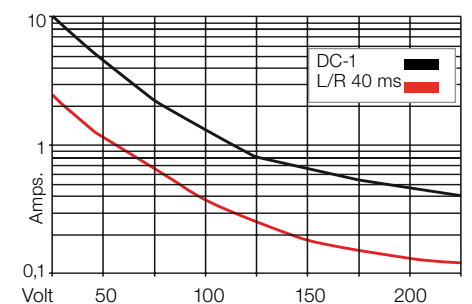
**Connection diagram**



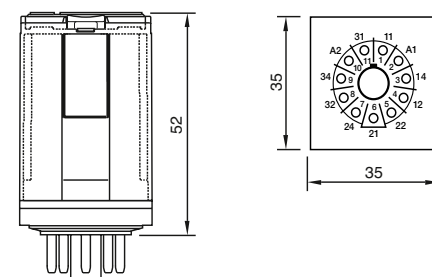
**Fig. 1 AC voltage endurance**



**Fig. 2 DC load limit curve**



**Dimensions [mm]**



**Technical approvals, conformities**



IEC 61810; EN 60947

<b>Type</b>	<b>C3-M1x/ ... V</b> Power relays, DC, application 1 pole, magnetic blow out
-------------	--

<b>Maximum contact load</b>	<b>10 A 250 V AC-1    10 A 220 V DC-1</b>
-----------------------------	---

<b>Contacts</b>			
Material	Standard	Code 0	AgNi
Rated current			10 A
Switch-on current max. (20 ms)			30 A
Switching voltage max.			250 V
AC load (Fig 1)			2,5 kVA
DC load			see Fig. 2

<b>Coil</b>	
Coil resistance	see table; tolerance $\pm 10\%$
Pick-up voltage	$\leq 0,8 \times U_N$
Release voltage	$\geq 0,1 \times U_N$
Nominal power	2,4 VA (AC) / 1,3 W (DC)

<b>Coil table</b>																															
	<table border="1"> <thead> <tr> <th>VAC</th> <th><math>\Omega</math></th> <th>mA</th> <th>VDC</th> <th><math>\Omega</math></th> <th>mA</th> </tr> </thead> <tbody> <tr> <td>24</td> <td>65</td> <td>100</td> <td>24</td> <td>480</td> <td>50</td> </tr> <tr> <td>48</td> <td>286</td> <td>50</td> <td>48</td> <td>1K8</td> <td>26</td> </tr> <tr> <td>115</td> <td>1K7</td> <td>21</td> <td>110</td> <td>9K</td> <td>12</td> </tr> <tr> <td>230</td> <td>6K8</td> <td>10</td> <td>220</td> <td>29K</td> <td>7,5</td> </tr> </tbody> </table>	VAC	$\Omega$	mA	VDC	$\Omega$	mA	24	65	100	24	480	50	48	286	50	48	1K8	26	115	1K7	21	110	9K	12	230	6K8	10	220	29K	7,5
VAC	$\Omega$	mA	VDC	$\Omega$	mA																										
24	65	100	24	480	50																										
48	286	50	48	1K8	26																										
115	1K7	21	110	9K	12																										
230	6K8	10	220	29K	7,5																										

<b>Insulation</b>	Volt rms, 1 min
Contact open	2500 V
Contact/contact	2,5 kV
Contact/coil	2,5 kV
Insulation resistance at 500 V	$\geq 1$ G $\Omega$
Insulation, IEC 61810-1:	2,5 KV / 3

<b>Specifications</b>	
Ambient temperature operation/storage	-40 ... 70 °C (55° C AC) / -40 ... 80 °C
Nominal coil power	2,4 VA (AC), 1,3 W (DC)
Pick-up time/bounce time	20 ms/ $\leq 3$ ms
Release time/bounce time	10 ms/ $\leq 1$ ms
Isolation: EN 60947, pollution rate 3, Gr C	250 V
Dielectric strength, Contact/Coil	2,5 KV

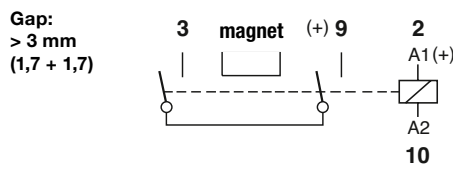
<b>Standard types</b>	
<b>VAC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240) LED</b>	<b>C3-M10/AC ... V</b> <b>C3-M10X/AC ... V</b>
<b>VDC 24, 48, 110, 220 LED</b>	<b>C3-M10/DC ... V</b> <b>C3-M10X/DC ... V</b>
<b>Free wheeling diode</b>	<b>C3-M10DX/DC ... V</b>
<b>Polarity and free wheeling diode</b>	<b>C3-M10FX/DC ... V</b>
<b>AC/DC bridge rectifier 24 V, 48 V, 60 V</b>	<b>C3-M10BX/UC ... V</b>

"..." Enter the voltage for full type designation

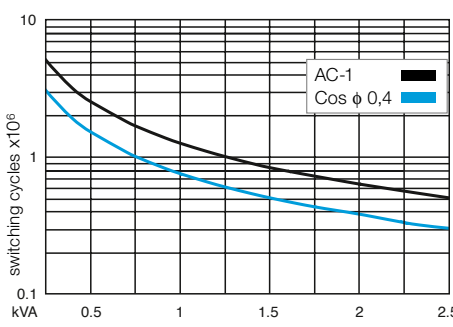
<b>Accessories</b>	
Socket:	<b>S3-B, S3-S, S3-L, S3-P, S3-P0</b>
Optional accessories (blanking plug):	<b>SO-NP, SO-OP</b>
Retaining clip, plastic:	<b>S30-CM</b>



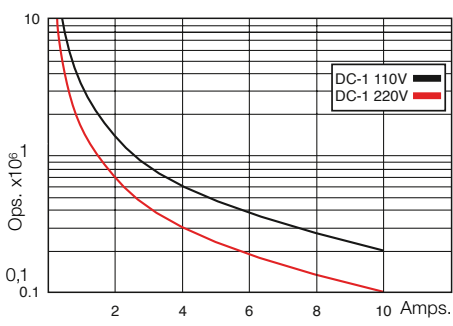
**Connection diagram**



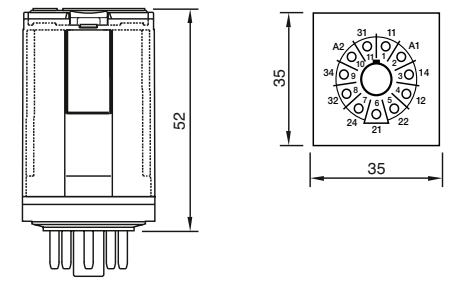
**Fig. 1 AC voltage endurance**



**Fig. 2 DC voltage endurance**



**Dimensions [mm]**



**Technical approvals, conformities**



IEC 61810; EN 60947



<b>Type</b>	<b>C3-X1x/ ... V</b> Power relays for DC application 1 pole, NO, double make		
-------------	--	--	--

<b>Maximum contact load</b>	<b>10 A/250 V AC-1</b>	<b>7 A/110 V DC-1</b>
	<b>10 A/30 V DC-1</b>	<b>1,2 A/220 V DC-1</b>

<b>Contacts</b>			
Material	Standard	Code 0	AgNi
Rated current			10 A
Switch-on current max. (20 ms)			30 A
Switching voltage max.			250 V
AC load (Fig 1)			2,5 kVA
DC load			see Fig. 2

<b>Coil</b>	
Coil resistance	see table; tolerance $\pm 10\%$
Pick-up voltage	$\leq 0,8 \times U_N$
Release voltage	$\geq 0,1 \times U_N$
Nominal power	2,4 VA (AC)/1,3 W (DC)

<b>Coil table</b>	VAC	$\Omega$	mA	VDC	$\Omega$	mA
	24	65	100	24	480	54
	48	286	50	48	1K8	26
	115	1K7	21	110	9K	12
	230	6K8	10	220	29K	7,5

<b>Insulation</b>	Volt rms, 1 min
Contact open	2500 V
Contact/contact	2,5 kV
Contact/coil	2,5 kV
Insulation resistance at 500 V	$\geq 1 \text{ G}\Omega$
Insulation, IEC 61810-1	2,5 kV/3

<b>Specifications</b>	
Ambient temperature operation/storage	-40 (no ice)...60 °C /-40 ... 80 °C
Pick-up time/bounce time	18 ms/ $\leq 3$ ms
Release time/bounce time	8 ms/ $\leq 1$ ms
Mechanical life ops	AC: 10 Mill./DC: 20 Mill.
DC voltage endurance at rated load	$\geq 100000$ switching cycles
Switching frequency at rated load	$\leq 1200$ /ops/h
Protection class	IP40
Weight	83 g

<b>Standard types</b>	<b>C3-X10/AC ... V</b> <b>C3-X10X/AC ... V</b>
<b>VAC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240) LED</b>	

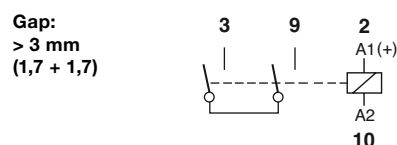
<b>VDC 24, 48, 110, 220 LED</b>	<b>C3-X10/DC ... V</b> <b>C3-X10X/DC ... V</b>
<b>Free wheeling diode</b>	<b>C3-X10DX/DC ... V</b> <b>C3-X10FX/DC ... V</b>
<b>Polarity and free wheeling diode</b>	

<b>AC/DC bridge rectifier 24 V, 48 V, 60 V</b>	<b>C3-X10BX/UC ... V</b>
--	--------------------------

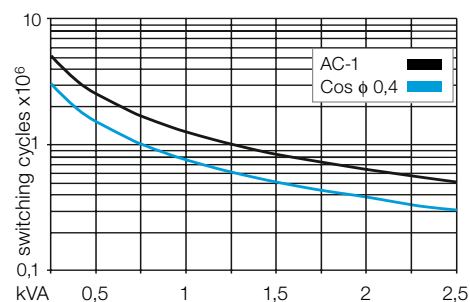
"..." Enter the voltage for full type designation

<b>Accessories</b>	
Socket:	<b>S3-B, S3-S, S3-L, S3-P, S3-P0</b>
Optional accessories (blanking plug):	<b>SO-NP, SO-OP</b>
Retaining clip, plastic:	<b>S30-CM</b>

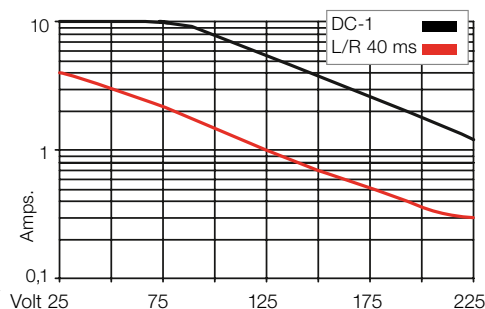
**Connection diagram**



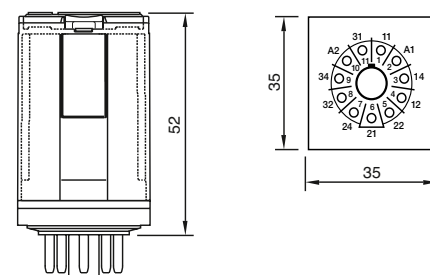
**Fig. 1 AC voltage endurance**



**Fig. 2 DC load limit curve**



**Dimensions [mm]**



**Technical approvals, conformities**



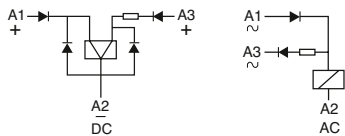
IEC 61810; EN 60947

<b>Type</b>	<b>C3-R2x/ ... V</b> Remanence plug-in relays, 2 change-over contacts			
<b>Maximum contact load</b>	<b>10 A/250 V AC-1</b>	<b>0,5 A/110 V DC-1</b>		
<b>Recommended minimum contact load</b>	<b>10 mA/10 V Code 0, 9</b>	<b>5 mA/5 V Code 8</b>		

<b>Contacts</b>			
Material	Standard	Code 0	AgNi
	Optional	Code 8	AgNi + 10 μ Au
	Optional	Code 9	AgNi + 0,2 μ Au
Rated current	10 A		
Switch-on current max. (20 ms)	30 A		
Switching voltage max.	250 V		
AC load (Fig 1)	2,5 kVA		
DC load	see Fig. 2		

<b>Coil</b>	
Coil resistance	see table; tolerance ± 10 %
ON pulse power	1,5 VA/W
OFF pulse power	0,5 VA/W
Pull-in ON/OFF	≤ 0,8 × U <sub>N</sub>

**Internal Diagram:**



**Coil table**

VAC	mA ON	mA OFF	VDC	mA ON	mA OFF
24	75	12	12	125	41
48	38	6	24	63	21
115	16	2,5	48	31	10
230	8	1,3	110	14	4,5

<b>Insulation</b>	
Contact open	Volt rms, 1 min
Contact/contact	1000 V
Contact/contact	2,5 kV
Contact/coil	2,5 kV
Insulation resistance at 500 V	≥1 GΩ
Insulation, IEC 61810-1	2,5 kV/3

<b>Specifications</b>	
Ambient temperature operation/storage	-40 (no ice)...60 °C / -40 ... 80 °C
Minimum pulse length for ON/OFF	50 ms
Mechanical life ops	10 Mill.
DC voltage endurance at rated load	≥100000 switching cycles
Switching frequency at rated load	≤ 1200/ops/h
Protection class	IP40
Weight	81 g

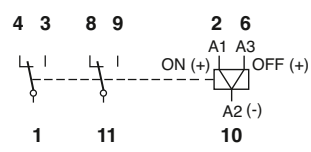
<b>Standard types</b>			
<b>VAC 50 Hz/60 Hz: 24, 48, 115, 230</b>	<b>C3-R20/AC ... V</b>	<b>C3-R28/AC ... V</b>	<b>C3-R29/AC ... V</b>
<b>VDC 12, 24, 48, 110</b>	<b>C3-R20/DC ... V</b>	<b>C3-R28/DC ... V</b>	<b>C3-R29/DC ... V</b>

"..." Enter the voltage for full type designation

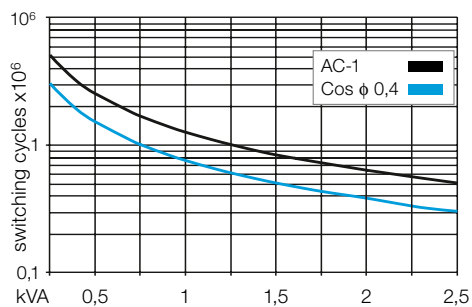
<b>Accessories</b>	
Socket:	<b>S3-B, S3-S, S3-L, S3-P, S3-P0</b>
Retaining clip, plastic:	<b>S30-CM</b>



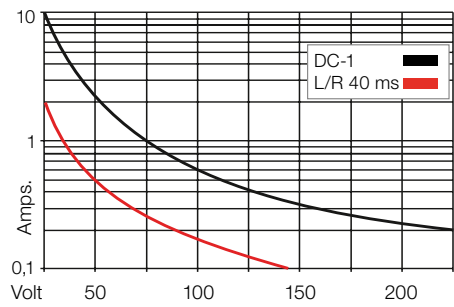
**Connection diagram**



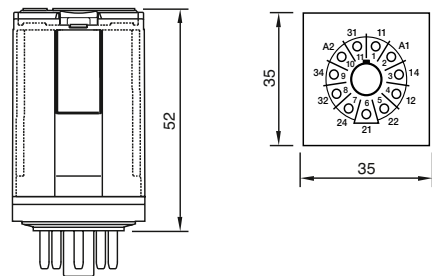
**Fig. 1 AC voltage endurance**



**Fig. 2 DC load limit curve**



**Dimensions [mm]**



**Technical approvals, conformities**



IEC 61810; EN 60947