

relais SKR



CATALOGUES 2021

ELESTA



ELESTA

ABOUT ELESTA ELEKTROTECHNIK AG

Elesta Elektrotechnik AG
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Since 1952, under the name Elesta switching relays have been manufactured that must satisfy particularly high quality requirements and demands on reliability in their applications. Thus, the users of Elesta relays will also in future have the guarantee that they will out in front in terms of quality, reliability and user benefits.

Elesta Elektrotechnik AG uses only the best material, and processes these very carefully, accompanied by elaborate inspection methods. These inspections include the regular checking of all products by the VDE, UL and ISO9001.

Elesta Elektrotechnik AG pays considerable attention to the external appearance of its products. This is, as it were, a sign of the care with which the individual relay components are produced and assembled into the different products.

ELESTA

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SKR - industry relay



the universal relay SKR

The strengths of the SKR industry relay lie in the mature and thought-out construction. Over-average contact safety and life time, electrical and mechanical status indication as well as the unsurpassed construction from only six assemblies makes the relay to the excellent power switch.

the time module STM

8 adjustable functions and 8 selectable time ranges: these are the special features of the time module STM. With only one version of the module all essential features as operating voltage, functions and time ranges are adjustable.

The result: a simple and cost-effective warehousing.

the socket

Simple to handle screw-terminal and clear, rich in contrast labeled clamp identification, are the base for a problemless use. The ZKE/ZKR sockets permit a rapid and secure installation.

The separated inputs and outputs are located at one level. There is also the possibility to plug a time module STM or other additional modules together with the SKR relay.

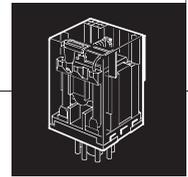
features

- simple construction
- high contact load
- contact spring in Beryllium bronze
- safe wire diameter
- long life time
- large coil room
- electrical or mechanical status indication
- integrated manual actuation
- simple installation
- indelible scheme on socket or cover following international standards

applications

- mostly used where a time-dependent event must be headed
- switch panel making
- machine industry
- illuminations
- locking of functions
- gate control
- machine control





type number key

SKR 115 A F 024VDC

Standard Voltage

VAC : 012, 024, 48, 115, 230 V
 VDC: 012, 024, 48, 110, 220 V

Options for

SKR 085 / 115 / 128 / 138

- D = Double Contact
- L = Electrical Position Indication
- F = Free Wheeling Diode
- G = Normally open contact
- H = Reverse Polarity
- B = Without Manual Actuation
- 1 = AgCuNi + Au 0.2 Micron Gold plating
- 2 = AgCuNi + Au 5.0 Micron Gold plating

SKR 085 / 115

- T = Push Button Actuation

SKR 085

- 085-M = 2c/o Magnetic Blow Out Relay
- 085-GM = 2n/o Magnetic Blow Out Relay
- 085-XM = 1n/o 1n/c Magnetic Blow Out Relay
- 085-YM = 1n/o Double Break Magnetic Blow Out Relay

SKR 138

- 2L = 2 Pole Latching Relay

Relay Versions (Standard)

- SKR 085 A = with Mechanical Position Indication with Lockable Button
- SKR 115 A = with Mechanical Position Indication with Lockable Button
- SKR 128 A = with Mechanical Position Indication with Lockable Button & Manual Push Button
- SKR 138 A = with Mechanical Position Indication with Lockable Button & Manual Push Button

order samples

manual actuation	position indication	free wheel diode	LED display	without manual actuation	magnetic blow out	double contact						
.	.						SKR085 A	VDC/AC	SKR115 A	VDC/AC	SKR122A	VDC/AC
.	.	.					SKR085 AF	VDC	SKR115 AF	VDC	SKR122 AF	VDC
.	.		.				SKR085 AL	VDC/AC	SKR115 AL	VDC/AC	SKR122 AL	VDC/AC
.	.	.	.				SKR085 AFL	VDC	SKR115 AFL	VDC	SKR122 AFL	VDC
.	.	.			.		SKR085 ADFL	VDC	SKR115 ADFL	VDC	SKR122 ADFL	VDC
			SKR085 FLMB	VDC				



SKR 085A - industry relay, 2-pole



Industry relay with two pole contacts in different versions.

order numbers

serial version	SKR 085 A... VDC/AC
with mechanical position indication and manual actuation	

contact specifications

contact material (Standard)	AgCuNi
contact type	single contact
nominal switching capacity	10 A 250 VAC 1 4 A 440 VAC 1
electric life expectancy	≥700'000 operations, 250 VAC 1 10A (360 operations)
inrush current max.	40 A for 20 ms
switching current max	30 mA to 10 A
switching power range	0,3 VA(W) to 2500 VA
contact resistance	20 m Ohms

options

electrical	
position indication	SKR 085 A L...
with free wheel diode	SKR 085 A F...
electrical	
position indication	
with free wheel diode	SKR 085 A FL...
without manual	
actuation	SKR 085 A B...
push-button actuation	SKR 085 A T...

(combinations with mechanical and electrical position indication and free-wheel diode are possible)

general data

mechanic life expectancy	10 ⁸ operations
mechanical switching frequency	20 Hz
pull-in time	12 ms at DC / 3-10 ms at AC
release time	3,5 ms at DC / 2-15 ms at AC
bounce time normally open contact	3,5 ms at DC / 3-6 ms at AC
bounce time normally closed contact	9 ms at DC / 6-11 ms at AC
shock resistanc	AK: > 10 g
vibration resistance	10-55 Hz, AK: 10 g, RK: 3 g
test voltage, coil/contact	2500 V _{eff}
test voltage, open contact	1500 V _{eff}
test voltage, adjacent contact	2000 V _{eff}
insulation resistance @ 500 VDC	200 M Ohms
weight	app. 80 g
installation situation	any
ambient temperature	max. +70 °C
protection standard	IP 40

accessories

Plug in socket	ZKR 089
accessories (metal clamp)	ZKR 008
Plug in socket	ZKE 088
accessories (metal clamp)	ZKR 008
accessories (timer module)	STM 100

tests, instructions

certificates	UL, CSA, VDE
insulation group	VDE 0110 / group C 250 VAC



SKR 085 - G - industry normally open relay, 2-pole



Industry normally open relay two pole contacts in different versions.

order numbers

serial version	SKR 085-G... VDC/AC
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contact specifications

contact material (Standard)	AgCuNi
contact material (Optional 1)	AgCuNi + 0.2 Micron Au
contact material (Optional 2)	AgCuNi + 0.5 Micron Au
contact type	single contact
nominal switching capacity	10 A 250 VAC 1 4 A 440 VAC 1
electric life expectancy	≥700'000 operations, 250 VAC 1 10A (360 operations)
inrush current max.	40 A for 20 ms
switching current max	30 mA to 10 A
switching power range	0,3 VA(W) to 2500 VA
contact resistance	20 m Ohms

options

electrical position indication	SKR 085-G L...
with free wheel diode	SKR 085-G F...
electrical position indication with free wheel diode	SKR 085-G L...
without manual actuation	SKR 085-G B...

(combinations with electrical position indication and free-wheel diode are possible)

general data

mechanic life expectancy	10 ⁸ operations
mechanical switching frequency	20 Hz
pull-in time	12 ms at DC / 3-10 ms at AC
release time	3,5 ms at DC / 2-15 ms at AC
bounce time normally open contact	3,5 ms at DC / 3-6 ms at AC
bounce time normally closed contact	9 ms at DC / 6-11 ms at AC
shock resistance	AK: > 10 g
vibration resistance	10-55 Hz, AK: 10 g, RK: 3 g
test voltage, coil/contact	2500 V _{eff}
test voltage, open contact	1500 V _{eff}
test voltage, adjacent contact	2000 V _{eff}
insulation resistance @ 500 VDC	200 M Ohms
weight	app. 80 g
installation situation	any
ambient temperature	max. +70 °C
protection standard	IP 40

accessories

Plug in socket accessories (metal clamp)	ZKR 089 ZKR 008
Plug in socket accessories (metal clamp)	ZKE 088 ZKR 008
accessories (timer module)	STM 100

tests, instructions

certificates	CE
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SKR 085-M - industry magnetic blow out relay, 2-pole



Industry magnetic blow out relay with two pole contacts in different versions.

order numbers

serial version	SKR 085-M... VDC/AC
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contact specifications

contact material	AgCuNi
contact type	single contact
nominal switching capacity	10 A 250 VAC 1 2.5 A 220 VDC 1 (NC) 5.0 A 220 VDC 1 (NO) 2.0 A 220 VDC L/R 7ms (NC) 3.0 A 220 VDC L/R 7ms (NO)
electric life expectancy at nominal load	≥100'000 operations (NO) & 72500 operations (NC)
inrush current max.	40 A for 20 ms
switching current max.	30 mA to 10 A
switching power range	0,3 VA(W) to 2500 VA
contact resistance	20 m Ohms

options

electrical position indication	SKR 085-M L...
with free wheel diode	SKR 085-M F...
electrical position indication with free wheel diode	SKR 085-M FL...
without manual actuation	SKR 085-M B...

(combinations with electrical position indication and free-wheel diode are possible)

general data

mechanic life expectancy	10 ⁸ operations
mechanical switching frequency	20 Hz
pull-in time	12 ms at DC / 3-10 ms at AC
release time	3,5 ms at DC / 2-15 ms at AC
bounce time normally open contact	3,5 ms at DC / 3-6 ms at AC
bounce time normally closed contact	9 ms at DC / 6-11 ms at AC
shock resistanc	AK: > 10 g
vibration resistance	10-55 Hz, AK: 10 g, RK: 3 g
test voltage, coil/contact	2500 V _{eff}
test voltage, open contact	1500 V _{eff}
test voltage, adjacent contact	2000 V _{eff}
insulation resistance @ 500 VDC	200 M Ohms
weight	app. 80 g
installation situation	any
ambient temperature	max. +70 °C
protection standard	IP 40

accessories

Plug in socket accessories (metal clamp)	ZKR 089 ZKR 008
Plug in socket accessories (metal clamp)	ZKE 088 ZKR 008
accessories (timer module)	STM 100

tests, instructions

certificates	CE
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SKR 085 - GM - industry magnetic blow out relay, 2-pole



Industry magnetic blow out with two normally open contacts in different versions.

order numbers

serial version	SKR 085-GM... VDC/AC
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contact specifications

contact material	AgCuNi
contact type	single contact
nominal switching capacity	10 A 250 VAC 1 10 A 220 VDC 1 5 A 220 VDC L/R 7ms
electric life expectancy at nominal load	≥100'000 operations
inrush current max.	40 A for 20 ms
switching current max	30 mA to 10 A
switching power range	0,3 VA(W) to 2500 VA
contact resistance	20 m Ohms

options

electrical position indication	SKR 085-GM L...
with free wheel diode	SKR 085-GM F...
electrical position indication with free wheel diode	SKR 085-GM L...
without manual actuation	SKR 085-GM B...

(combinations with electrical position indication and free-wheel diode are possible)

general data

mechanic life expectancy	10 ⁸ operations
mechanical switching frequency	20 Hz
pull-in time	12 ms at DC / 3-10 ms at AC
release time	3,5 ms at DC / 2-15 ms at AC
bounce time normally open contact	3,5 ms at DC / 3-6 ms at AC
bounce time normally closed contact	9 ms at DC / 6-11 ms at AC
shock resistanc	AK: > 10 g
vibration resistance	10-55 Hz, AK: 10 g, RK: 3 g
test voltage, coil/contact	2500 V _{eff}
test voltage, open contact	1500 V _{eff}
test voltage, adjacent contact	2000 V _{eff}
insulation resistance @ 500 VDC	200 M Ohms
weight	app. 80 g
installation situation	any
ambient temperature	max. +70 °C
protection standard	IP 40

accessories

Plug in socket accessories (metal clamp)	ZKR 089 ZKR 008
Plug in socket accessories (metal clamp)	ZKE 088 ZKR 008
accessories (timer module)	STM 100

tests, instructions

certificates	CE
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SKR 085-XM -industry magnetic blow out relay, 1 NO + 1 NC



Industry magnetic blow out with one normally open and one normally closed contacts in different versions.

order numbers

serial version	SKR 085-XM... VDC/AC
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contact specifications

contact material	AgCuNi
contact type	single contact
nominal switching capacity	10 A 250 VAC 1 10 A 220 VDC 1 5 A 220 VDC L/R 7ms
electric life expectancy at nominal load	≥100'000 operations
inrush current max.	40 A for 20 ms
switching current max	30 mA to 10 A
switching power range	0.18 VA(W) to 2500 VA
contact resistance	20 m Ohms

options

electrical position indication	SKR 085-XM L ...
with free wheel diode	SKR 085-XM F ...
electrical position indication with free wheel diode	SKR 085-XM FL...
without manual actuation	SKR 085-XM B...

(combinations with electrical position indication and free-wheel diode are possible)

general data

mechanic life expectancy	10 ⁸ operations
mechanical switching frequency	20 Hz
pull-in time	12 ms at DC / 3-10 ms at AC
release time	3,5 ms at DC / 2-15 ms at AC
bounce time normally open contact	3,5 ms at DC / 3-6 ms at AC
bounce time normally closed contact	9 ms at DC / 6-11 ms at AC
shock resistanc	AK: > 10 g
vibration resistance	10-55 Hz, AK: 10 g, RK: 3 g
test voltage, coil/contact	2500 V _{eff}
test voltage, open contact	1500 V _{eff}
test voltage, adjacent contact	2000 V _{eff}
insulation resistance @ 500 VDC	200 M Ohms
weight	app. 80 g
installation situation	any
ambient temperature	max. +70 °C
protection standard	IP 40

accessories

Plug in socket accessories (metal clamp)	ZKR 089 ZKR 008
Plug in socket accessories (metal clamp)	ZKE 088 ZKR 008
accessories (timer module)	STM 100

tests, instructions

certificates	CE
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SKR 085-YM -industry magnetic blow out relay, 1 NO Double Break



Industry magnetic blow out with one normally open double break contacts in different versions.

order numbers

serial version	SKR 085-YM... VDC/AC
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contact specifications

contact material	AgCuNi
contact type	single contact
nominal switching capacity	10 A 250 VAC 1 10 A 220 VDC 1 7 A 220 VDC L/R 7ms
electric life expectancy at nominal load	≥100'000 operations
inrush current max.	15 A for 20 ms
switching current max	30 mA to 10 A
switching power range	0.3 VA(W) to 2500 VA
contact resistance	20 m Ohms

options

electrical position indication	SKR 085-YM L ...
with free wheel diode	SKR 085-YM F ...
electrical position indication with free wheel diode	SKR 085-YM FL...
without manual actuation	SKR 085-YM B...

(combinations with electrical position indication and free-wheel diode are possible)

general data

mechanic life expectancy	10 ⁸ operations
mechanical switching frequency	20 Hz
pull-in time	12 ms at DC / 3-10 ms at AC
release time	3,5 ms at DC / 2-15 ms at AC
bounce time normally open contact	3,5 ms at DC / 3-6 ms at AC
bounce time normally closed contact	9 ms at DC / 6-11 ms at AC
shock resistanc	AK: > 10 g
vibration resistance	10-55 Hz, AK: 10 g, RK: 3 g
test voltage, coil/contact	2500 V _{eff}
test voltage, open contact	1500 V _{eff}
test voltage, adjacent contact	2000 V _{eff}
insulation resistance @ 500 VDC	200 M Ohms
weight	app. 80 g
installation situation	any
ambient temperature	max. +70 °C
protection standard	IP 40

accessories

Plug in socket accessories (metal clamp)	ZKR 089 ZKR 008
Plug in socket accessories (metal clamp)	ZKE 088 ZKR 008
accessories (timer module)	STM 100

tests, instructions

certificates	CE
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SKR 085A - D - industry double contact relay, 2-pole



Industry double contact two pole relay in different versions.

order numbers

serial version	SKR 085 A-D... VDC/AC
with mechanical position indication	

contact specifications

contact material (Standard)	AgNi
contact material (Optional 1)	AgNi + 0.2 Micron Au
contact material (Optional 2)	AgNi + 0.5 Micron Au
contact type	double contact
nominal switching capacity	6 A 250 VAC 1 6 A 30 VDC 1
electric life expectancy at nominal load	≥150'000 operations
inrush current max.	15 A for 20 ms
switching current max	10 mA to 6 A
switching power range	0,3 VA(W) to 2500 VA
contact resistance	20 m Ohms

options

electrical position indication	SKR 085 A-D L...
with free wheel diode	SKR 085 A-D F...
electrical position indication with free wheel diode	SKR 085 A-D FL...
without manual actuation	SKR 085 A-D B...
push-button actuation	SKR 085 A-D T...
current coil	SKR 085 A-D C...

(combinations with mechanical and electrical position indication and free-wheel diode are possible)

general data

mechanic life expectancy	10 ⁸ operations
mechanical switching frequency	20 Hz
pull-in time	12 ms at DC / 3-10 ms at AC
release time	3,5 ms at DC / 2-15 ms at AC
bounce time normally open contact	3,5 ms at DC / 3-6 ms at AC
bounce time normally closed contact	9 ms at DC / 6-11 ms at AC
shock resistanc	AK: > 10 g
vibration resistance	10-55 Hz, AK: 10 g, RK: 3 g
test voltage, coil/contact	2500 V _{eff}
test voltage, open contact	1500 V _{eff}
test voltage, adjacent contact	2000 V _{eff}
insulation resistance @ 500 VDC	200 M Ohms
weight	app. 80 g
installation situation	any
ambient temperature	max. +70 °C
protection standard	IP 40

accessories

Plug in socket accessories (metal clamp)	ZKR 089 ZKR 008
Plug in socket accessories (metal clamp)	ZKE 088 ZKR 008
accessories (timer module)	STM 100

tests, instructions

certificates	UL, CSA, VDE
insulation group	VDE 0110 / group C 250 VAC



SKR 128A - industry relay, 2-pole



Industry relay with two pole contacts in different versions.

order numbers

serial version	SKR 128 A... VDC/AC
with mechanical position indication and manual actuation	

contact specifications

contact material (Standard)	AgCuNi
contact material (Optional 1)	AgCuNi + 0.2 Micron Au
contact material (Optional 2)	AgCuNi + 0.5 Micron Au
contact type	single contact
nominal switching capacity	10 A 250 VAC 1 10 A 30 VDC 1
electric life expectancy at nominal load	≥100'000 operations
inrush current max.	30 A for 20 ms
switching current max	10 A
switching power range	0,3 VA(W) to 2500 VA
contact resistance	20 m Ohms

options

electrical	
position indication	SKR 128 A L...
with free wheel diode	SKR 128 A F...
electrical	
position indication	
with free wheel diode	SKR 128 A FL...
without manual	
actuation	SKR 128 A B...
push-button actuation	SKR 128 A T...
current coil	SKR 128 A C...

(combinations with mechanical and electrical position indication and free-wheel diode are possible)

general data

mechanic life expectancy	10 million AC, 20 million DC
mechanical switching frequency	20 Hz
pull-in time	12 ms at DC / 3-10 ms at AC
release time	3,5 ms at DC / 2-15 ms at AC
bounce time normally open contact	3,5 ms at DC / 3-6 ms at AC
bounce time normally closed contact	9 ms at DC / 6-11 ms at AC
shock resistanc	AK: > 10 g
vibration resistance	10-55 Hz, AK: 10 g, RK: 3 g
test voltage, coil/contact	2500 V _{eff}
test voltage, open contact	1500 V _{eff}
test voltage, adjacent contact	2000 V _{eff}
insulation resistance @ 500 VDC	200 M Ohms
weight	app. 80 g
installation situation	any
ambient temperature	max. +70 °C
protection standard	IP 40

accessories

Plug in socket accessories (metal clamp)	ZKR 089 ZKR 008
Plug in socket accessories (metal clamp)	ZKE 088 ZKR 008
accessories (timer module)	STM 100

tests, instructions

certificates	CE
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SKR 128 - G - industry normally open relay, 2-pole



Industry relay with two normally open contacts in different versions.

order numbers

serial version	SKR 128-G... VDC/AC
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contact specifications

contact material (Standard)	AgCuNi
contact material (Optional 1)	AgCuNi + 0.2 Micron Au
contact material (Optional 2)	AgCuNi + 0.5 Micron Au
contact type	single contact
nominal switching capacity	10 A 250 VAC 1 10 A 30 VDC 1
electric life expectancy at nominal load	≥100'000 operations
inrush current max.	30 A for 20 ms
switching current max	30 mA to 10 A
switching power range	0,3 VA(W) to 2500 VA
contact resistance	20 m Ohms

options

electrical position indication	SKR 128-G L...
with free wheel diode	SKR 128-G F...
electrical position indication with free wheel diode	SKR 128-G FL...
without manual actuation	SKR 128-G B...

(combinations with electrical position indication and free-wheel diode are possible)

general data

mechanic life expectancy	10 million AC, 20 million DC
mechanical switching frequency	20 Hz
pull-in time	12 ms at DC / 3-10 ms at AC
release time	3,5 ms at DC / 2-15 ms at AC
bounce time normally open contact	3,5 ms at DC / 3-6 ms at AC
bounce time normally closed contact	9 ms at DC / 6-11 ms at AC
shock resistance	AK: > 10 g
vibration resistance	10-55 Hz, AK: 10 g, RK: 3 g
test voltage, coil/contact	2500 V _{eff}
test voltage, open contact	1500 V _{eff}
test voltage, adjacent contact	2000 V _{eff}
insulation resistance @ 500 VDC	200 M Ohms
weight	app. 80 g
installation situation	any
ambient temperature	max. +70 °C
protection standard	IP 40

accessories

Plug in socket accessories (metal clamp)	ZKR 089 ZKR 008
Plug in socket accessories (metal clamp)	ZKE 088 ZKR 008
accessories (timer module)	STM 100

tests, instructions

certificates	CE
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SKR 128A-D - industry double contact relay, 2-pole



Industry double contact two pole relay in different versions.

order numbers

serial version	SKR 128 A-D... VDC/AC
with mechanical position indication and manual actuation	

contact specifications

contact material (Standard)	AgNi
contact material (Optional 1)	AgNi + 0.2 Micron Au
contact material (Optional 2)	AgNi + 0.5 Micron Au
contact type	double contact
nominal switching capacity	6 A 250 VAC 1 6 A 30 VDC 1
electric life expectancy at nominal load	≥100'000 operations
inrush current max.	15 A for 20 ms
switching current max	10 mA to 6 A
switching power range	0,3 VA(W) to 2500 VA
contact resistance	20 m Ohms

options

electrical position indication	SKR 128 A-D-L...
with free wheel diode	SKR 128 A-D-F...
electrical position indication with free wheel diode	SKR 128 A-D-FL...
without manual actuation	SKR 128 A-D-B...
push-button actuation	SKR 128 A-D-T...
current coil	SKR 128 A-D-C...

(combinations with mechanical and electrical position indication and free-wheel diode are possible)

general data

mechanic life expectancy	10 million AC, 20 million DC
mechanical switching frequency	20 Hz
pull-in time	12 ms at DC / 3-10 ms at AC
release time	3,5 ms at DC / 2-15 ms at AC
bounce time normally open contact	3,5 ms at DC / 3-6 ms at AC
bounce time normally closed contact	9 ms at DC / 6-11 ms at AC
shock resistance	AK: > 10 g
vibration resistance	10-55 Hz, AK: 10 g, RK: 3 g
test voltage, coil/contact	2500 V _{eff}
test voltage, open contact	1500 V _{eff}
test voltage, adjacent contact	2000 V _{eff}
insulation resistance @ 500 VDC	200 M Ohms
weight	app. 80 g
installation situation	any
ambient temperature	max. +70 °C
protection standard	IP 40

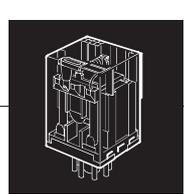
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Plug in socket accessories (metal clamp)	ZKR 089 ZKR 008
Plug in socket accessories (metal clamp)	ZKE 088 ZKR 008
accessories (timer module)	STM 100

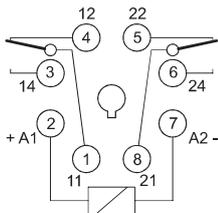
tests, instructions

certificates	CE
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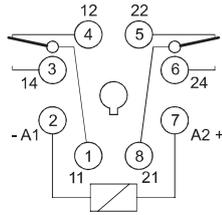




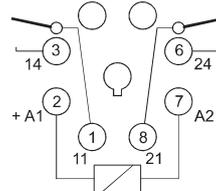
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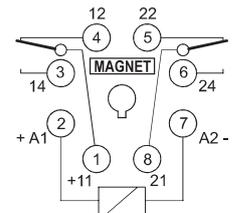
**SKR 085A
SKR 128A**



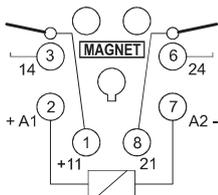
**SKR 085A-H
SKR 128A-H
(Reverse Polarity)**



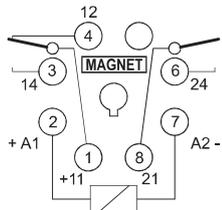
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SKR 128-G**



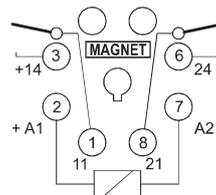
SKR 085-M



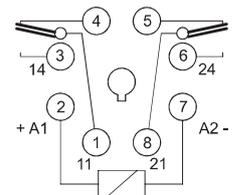
SKR 085-GM



SKR 085-XM

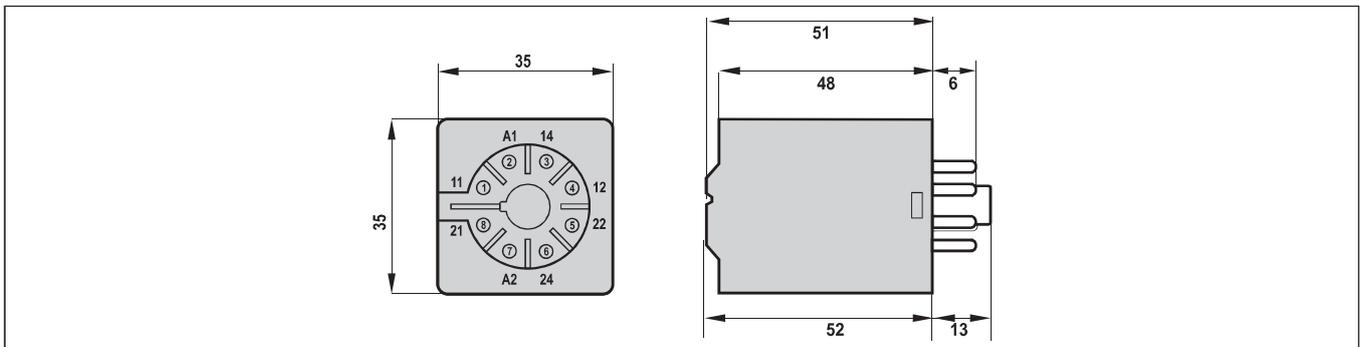


SKR 085-YM

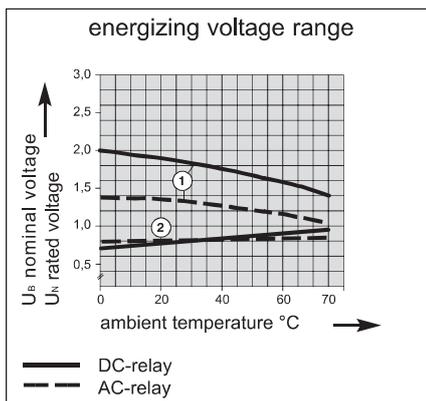


**SKR 085A-D
SKR 128A-D**

dimensions for SKR 085 / SKR 128



coil specifications



- single relay, no heat concentration by surrounding components with self-heating.
 - on time 100%
- 1) max. energizing voltage without contact load
 - 2) min. energizing voltage (guaranteed value), without operation in advance.

standard coils for direct current (other voltages on enquiry)

rated voltage VDC	pull-in voltage at 20 °C	reset voltage at 20 °C	nominal current mA	resistance Ohm at 20 °C	tolerance %
12	≤ 9,6	≥ 0,6	104	115	+/-10
24	≤ 19,2	≥ 1,2	50,0	480	+/-10
48	≤ 38,4	≥ 2,4	25,9	1850	+/-10
110	≤ 88,0	≥ 5,5	12,2	9'000	+/-15
220	≤ 176,0	≥ 11	7,58	29'000	+/-15

standard coils for alternated current (other voltages on enquiry)

rated voltage VAC	pull-in voltage at 20 °C	reset voltage at 20 °C	nominal current mA	resistance Ohm at 20 °C	tolerance %
12	≤ 9,6	≥ 0,6	211	13,3	+/-10
24	≤ 19,2	≥ 1,2	104	52	+/-10
48	≤ 38,4	≥ 2,4	55	240	+/-10
110	≤ 88,0	≥ 5,5	23	1'120	+/-10
220	≤ 176	≥ 11,0	12,0	4'450	+/-10
230	≤ 184	≥ 11,5	11,5	5'600	+/-10



SKR 115A - industry relay, 3-pole



Industry relay with three pole contacts in different versions

order numbers

serial version	SKR 115 A ... VDC/AC
with mechanical position indication and manual actuation	

contact specifications

contact material (Standard)	AgCuNi
contact material (Optional 1)	AgCuNi + 0.2 Micron Au
contact material (Optional 2)	AgCuNi + 0.5 Micron Au
contact type	single contact
nominal switching capacity	10 A 250 VAC 1 4 A 440 VAC 1
electric life expectancy	≥700'000 operations
inrush current max.	40 A for 20 ms
switching current max	50 MA to 10 A
switching power range	0,3 VA(W) to 2500 VA
contact resistance	20 m Ohms

options

electrical position indication	SKR 115 A-L...
with free wheel diode	SKR 115 A-F...
electrical position indication with free wheel diode	SKR 115 A-FL...
without manual actuation	SKR 115 A-B...
push-button actuation	SKR 115 A-T...
current coil	SKR 115 A-C...

(combinations with mechanical and electrical position indication and free-wheel diode are possible)

general data

mechanic life expectancy	10 million AC, 20 million DC
mechanical switching frequency	20 Hz
pull-in time	12 ms at DC / 3-10 ms at AC
release time	3,5 ms at DC / 2-15 ms at AC
bounce time normally open contact	3,5 ms at DC / 3-6 ms at AC
bounce time normally closed contact	9 ms at DC / 6-11 ms at AC
shock resistance	AK: > 10 g
vibration resistance	10-55 Hz, AK: 10 g, RK: 3 g
test voltage, coil/contact	2500 V _{eff}
test voltage, open contact	1500 V _{eff}
test voltage, adjacent contact	2000 V _{eff}
insulation resistance @ 500 VDC	200 M Ohms
weight	app. 80 g
installation situation	any
ambient temperature	max. +70 °C
protection standard	IP 40

accessories

Plug in socket accessories (metal clamp)	ZKR 119 ZKR 008
Plug in socket accessories (metal clamp)	ZKE 118
accessories (timer module)	ZKR 008 STM 100

tests, instructions

certificates	UL, CSA, VDE
insulation group	VDE 0110 / group C 250 VAC



SKR 115A-D - industry double contact relay, 3-pole



Industry double contact three pole relay in different versions.

order numbers

serial version	SKR 115 A-D... VDC/AC
with mechanical position indication and manual actuation	

contact specifications

contact material (Standard)	AgNi
contact material (Optional 1)	AgNi + 0.2 Micron Au
contact material (Optional 2)	AgNi + 0.5 Micron Au
contact type	double contact
nominal switching capacity	6 A 250 VAC 1 6 A 30 VDC 1
electric life expectancy at nominal load	≥100'000 operations
inrush current max.	30 A for 20 ms
switching current max	10 A
switching power range	0,3 VA(W) to 2500 VA
contact resistance	20 m Ohms

options

electrical position indication	SKR 115 A-D-L...
with free wheel diode	SKR 115 A-D-F...
electrical position indication with free wheel diode	SKR 115 A-D-FL...
without manual actuation	SKR 115 A-D-B...
push-button actuation	SKR 115 A-D-T...
current coil	SKR 115 A-D-C...

(combinations with mechanical and electrical position indication and free-wheel diode are possible)

general data

mechanic life expectancy	10 million AC, 20 million DC
mechanical switching frequency	20 Hz
pull-in time	12 ms at DC / 3-10 ms at AC
release time	3,5 ms at DC / 2-15 ms at AC
bounce time normally open contact	3,5 ms at DC / 3-6 ms at AC
bounce time normally closed contact	9 ms at DC / 6-11 ms at AC
shock resistance	AK: > 10 g
vibration resistance	10-55 Hz, AK: 10 g, RK: 3 g
test voltage, coil/contact	2500 V _{eff}
test voltage, open contact	1500 V _{eff}
test voltage, adjacent contact	2000 V _{eff}
insulation resistance @ 500 VDC	200 M Ohms
weight	app. 80 g
installation situation	any
ambient temperature	max. +70 °C
protection standard	IP 40

accessories

Plug in socket accessories (metal clamp)	ZKR 119 ZKR 008
Plug in socket accessories (metal clamp)	ZKE 118
accessories (timer module)	ZKR 008 STM 100

tests, instructions

certificates	UL, CSA, VDE
insulation group	VDE 0110 / group C 250 VAC



SKR 138A - industry relay 3-pole



Industry relay with three pole contacts in different versions

order numbers

serial version	SKR 138 A... VDC/AC
with mechanical position indication and manual actuation	

contact specifications

contact material (Standard)	AgCuNi
contact material (Optional 1)	AgCuNi + 0.2 Micron Au
contact material (Optional 2)	AgCuNi + 0.5 Micron Au
contact type	single contact
nominal switching capacity	10 A 250 VAC 1 10 A 30 VDC 1
electric life expectancy at nominal load	≥100'000 operations
inrush current max.	30 A for 20 ms
switching current max	10 A
switching power range	0,3 VA(W) to 2500 VA
contact resistance	20 m Ohms

options

electrical position indication	SKR 138 A-L...
with free wheel diode	SKR 138 A-F...
electrical position indication with free wheel diode	SKR 138 A-FL...
without manual actuation	SKR 138 A-B...
push-button actuation	SKR 138 A-T...
current coil	SKR 138 A-C...

(combinations with mechanical and electrical position indication and free-wheel diode are possible)

general data

mechanic life expectancy	10 million AC, 20 million DC
mechanical switching frequency	20 Hz
pull-in time	12 ms at DC / 3-10 ms at AC
release time	3,5 ms at DC / 2-15 ms at AC
bounce time normally open contact	3,5 ms at DC / 3-6 ms at AC
bounce time normally closed contact	9 ms at DC / 6-11 ms at AC
shock resistance	AK: > 10 g
vibration resistance	10-55 Hz, AK: 10 g, RK: 3 g
test voltage, coil/contact	2500 V _{eff}
test voltage, open contact	1500 V _{eff}
test voltage, adjacent contact	2000 V _{eff}
insulation resistance @ 500 VDC	200 M Ohms
weight	app. 80 g
installation situation	any
ambient temperature	max. +70 °C
protection standard	IP 40

accessories

Plug in socket accessories (metal clamp)	ZKR 119 ZKR 008
Plug in socket accessories (metal clamp)	ZKE 118
accessories (timer module)	ZKR 008 STM 100

tests, instructions

certificates	CE
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SKR 138G - industry normally open relay, 3-pole



Industry normally open three pole contacts relay in different versions.

order numbers

serial version	SKR 138-G... VDC/AC
with mechanical position indication and manual actuation	

contact specifications

contact material (Standard)	AgCuNi
contact material (Optional 1)	AgCuNi + 0.2 Micron Au
contact material (Optional 2)	AgCuNi + 0.5 Micron Au
contact type	single contact
nominal switching capacity	10 A 250 VAC 1 10 A 30 VDC 1
electric life expectancy at nominal load	≥100'000 operations
inrush current max.	30 A for 20 ms
switching current max	10 A
switching power range	0,3 VA(W) to 2500 VA
contact resistance	20 m Ohms

options

electrical position indication	SKR 138-G-L...
with free wheel diode	SKR 138-G-F...
electrical position indication with free wheel diode	SKR 138-G-FL...
without manual actuation	SKR 138-G-B...
push-button actuation	SKR 138-G-T...
current coil	SKR 138-G-C...

(combinations with mechanical and electrical position indication and free-wheel diode are possible)

general data

mechanic life expectancy	10 million AC, 20 million DC
mechanical switching frequency	20 Hz
pull-in time	12 ms at DC / 3-10 ms at AC
release time	3,5 ms at DC / 2-15 ms at AC
bounce time normally open contact	3,5 ms at DC / 3-6 ms at AC
bounce time normally closed contact	9 ms at DC / 6-11 ms at AC
shock resistance	AK: > 10 g
vibration resistance	10-55 Hz, AK: 10 g, RK: 3 g
test voltage, coil/contact	2500 V _{eff}
test voltage, open contact	1500 V _{eff}
test voltage, adjacent contact	2000 V _{eff}
insulation resistance @ 500 VDC	200 M Ohms
weight	app. 80 g
installation situation	any
ambient temperature	max. +70 °C
protection standard	IP 40

accessories

Plug in socket accessories (metal clamp)	ZKR 119 ZKR 008
Plug in socket accessories (metal clamp)	ZKE 118
accessories (timer module)	ZKR 008 STM 100

tests, instructions

certificates	CE
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SKR 138-2L - industry latching relay, 2-pole



Industry latching relay with two pole contacts in different versions

order numbers

serial version	SKR 138-2L... VDC/AC
----------------	-------------------------

contact specifications

contact material	AgCuNi
contact type	single contact
nominal switching capacity	10 A 250 VAC 1 4 A 440 VAC 1
electric life expectancy	≥100'000 operations
inrush current max.	40 A for 20 ms
switching current max	50 MA to 10 A
switching power range	0,3 VA(W) to 2500 VA
contact resistance	20 m Ohms

options

electrical position indication	SKR 138-2L-L...
with free wheel diode	SKR 138-2L-F...
electrical position indication with free wheel diode	SKR 138-2L-FL...
without manual actuation	SKR 138-2L-B...
push-button actuation	SKR 138-2L-T...
current coil	SKR 138-2L-C...

(combinations with mechanical and electrical position indication and free-wheel diode are possible)

general data

mechanic life expectancy	10 million AC, 20 million DC
mechanical switching frequency	20 Hz
pull-in time	12 ms at DC / 3-10 ms at AC
release time	3,5 ms at DC / 2-15 ms at AC
bounce time normally open contact	3,5 ms at DC / 3-6 ms at AC
bounce time normally closed contact	9 ms at DC / 6-11 ms at AC
shock resistance	AK: > 10 g
vibration resistance	10-55 Hz, AK: 10 g, RK: 3 g
test voltage, coil/contact	2500 V _{eff}
test voltage, open contact	1500 V _{eff}
test voltage, adjacent contact	2000 V _{eff}
insulation resistance @ 500 VDC	200 M Ohms
weight	app. 80 g
installation situation	any
ambient temperature	max. +70 °C
protection standard	IP 40

accessories

Plug in socket accessories (metal clamp)	ZKR 119 ZKR 008
Plug in socket accessories (metal clamp)	ZKE 118
accessories (timer module)	ZKR 008 STM 100

tests, instructions

certificates	CE
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SKR 138A-D - industry double contact relay, 3-pole



Industry Double contact with three pole relay in different versions.

order numbers

serial version	SKR 138 A-D... VDC/AC
with mechanical position indication and manual actuation	

contact specifications

contact material (Standard)	AgNi
contact material (Optional 1)	AgNi + 0.2 Micron Au
contact material (Optional 2)	AgNi + 0.5 Micron Au
contact type	double contact
nominal switching capacity	6 A 250 VAC 1 6 A 30 VDC 1
electric life expectancy at nominal load	≥100'000 operations
inrush current max.	30 A for 20 ms
switching current max	10 A
switching power range	0,3 VA(W) to 2500 VA
contact resistance	20 m Ohms

options

electrical position indication	SKR 138 A-D-L...
with free wheel diode	SKR 138 A-D-F...
electrical position indication with free wheel diode	SKR 138 A-D-FL...
without manual actuation	SKR 138 A-D-B...
push-button actuation	SKR 138 A-D-T...
current coil	SKR 138 A-D-C...

(combinations with mechanical and electrical position indication and free-wheel diode are possible)

general data

mechanic life expectancy	10 million AC, 20 million DC
mechanical switching frequency	20 Hz
pull-in time	12 ms at DC / 3-10 ms at AC
release time	3,5 ms at DC / 2-15 ms at AC
bounce time normally open contact	3,5 ms at DC / 3-6 ms at AC
bounce time normally closed contact	9 ms at DC / 6-11 ms at AC
shock resistance	AK: > 10 g
vibration resistance	10-55 Hz, AK: 10 g, RK: 3 g
test voltage, coil/contact	2500 V _{eff}
test voltage, open contact	1500 V _{eff}
test voltage, adjacent contact	2000 V _{eff}
insulation resistance @ 500 VDC	200 M Ohms
weight	app. 80 g
installation situation	any
ambient temperature	max. +70 °C
protection standard	IP 40

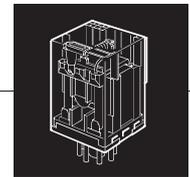
accessories

Plug in socket accessories (metal clamp)	ZKR 119 ZKR 008
Plug in socket accessories (metal clamp)	ZKE 118
accessories (timer module)	ZKR 008 STM 100

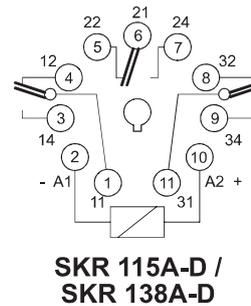
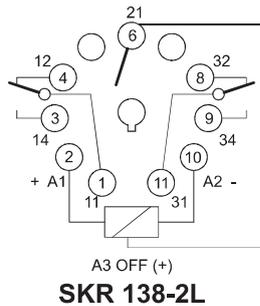
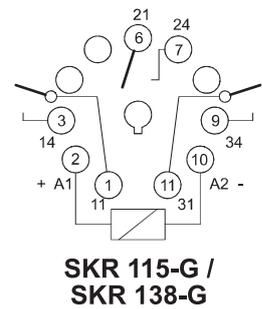
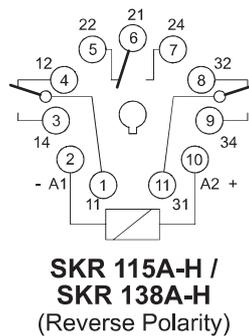
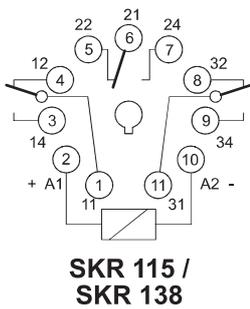
tests, instructions

certificates

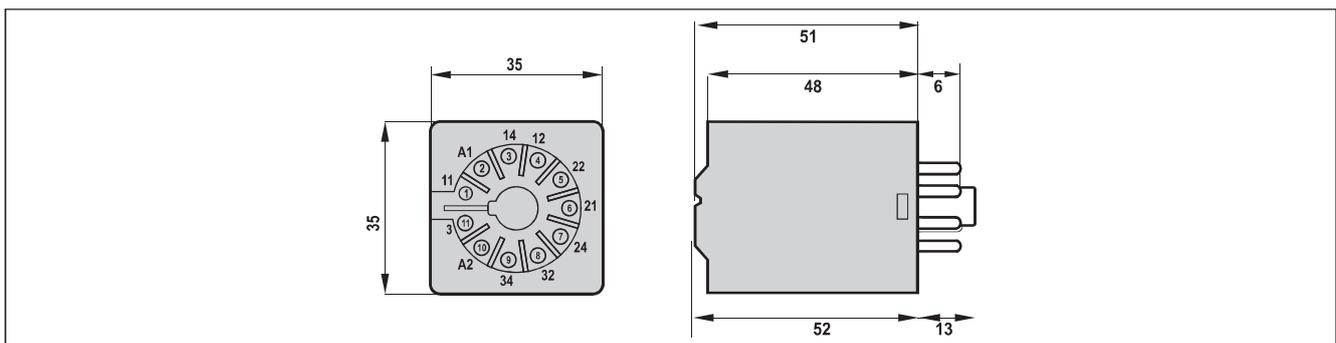




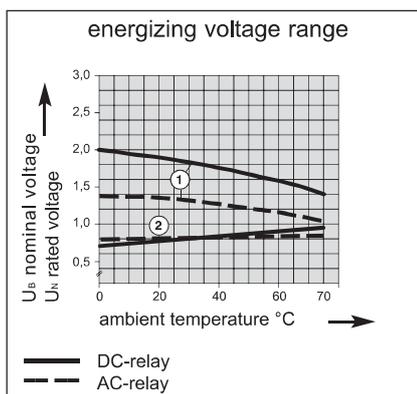
circuit diagram



dimensions for SKR 115 / 138



coil specifications



- single relay, no heat concentration by surrounding components with self-heating.
- on time 100%

- 1) max. energizing voltage without contact load
- 2) min. energizing voltage (guaranteed value), without operation in advance.

standard coils for direct current (other voltages on enquiry)

rated voltage VDC	pull-in voltage at 20 °C	reset voltage at 20 °C	nominal current mA	resistance Ohm at 20 °C	tolerance %
12	≤ 9,6	≥ 0,6	104	115	+/-10
24	≤ 19,2	≥ 1,2	50,0	480	+/-10
48	≤ 38,4	≥ 2,4	25,9	1850	+/-10
110	≤ 88,0	≥ 5,5	12,2	9'000	+/-15
220	≤ 176,0	≥ 11	7,58	29'000	+/-15

standard coils for alternated current (other voltages on enquiry)

rated voltage VAC	pull-in voltage at 20 °C	reset voltage at 20 °C	nominal current mA	resistance Ohm at 20 °C	tolerance %
12	≤ 9,6	≥ 0,6	211	13,3	+/-10
24	≤ 19,2	≥ 1,2	104	52	+/-10
48	≤ 38,4	≥ 2,4	55	240	+/-10
110	≤ 88,0	≥ 5,5	23	1'120	+/-10
220	≤ 176	≥ 11,0	12,0	4'450	+/-10
230	≤ 184	≥ 11,5	11,5	5'600	+/-10



SKR 122 - industry relay, PCB version



Industry relay with three change over contacts in different versions

order numbers

serial version	SKR 122 A ...
	VDC/AC
with mechanical position indication	

contact specifications

contact material	AgNi
contact type	single contact
nominal switching capacity	250 VAC 10 A AC1 2500 VA 440 VAC 4 A AC1
electric life expectancy	app. 700'000 operations 250 VAC, 10 A, AC1 (360 operations/h)
max. inrush current	40 A for 200 ms
switching current range	50 mA to 10 A
switching power range	0,3 VA to 2500 VA

options

electrical position indication	SKR 122 L ..
with free wheel diode	SKR 122 F ..
electrical position indication with free wheel diode	SKR 22 FL ..
double contact	SKR 122 D ..
without manual actuation	SKR 122 B ..
push-button actuation	SKR 122 T ..
current coil	SKR 122 C ..

(combinations with mechanical and electrical position indication and free-wheel diode are possible)

general data

mechanic life expectancy	$\geq 10^8$ operations
mechanical switching frequency	20 Hz
pull-in time	12 ms at DC / 3-10 ms at AC
release time	3,5 ms at DC / 2-15 ms at AC
bounce time normally open contact	3,5 ms at DC / 3-6 ms at AC
bounce time break contact	9 ms at DC / 6-11 ms at AC
shock resistance	AK: > 10 g
vibration resistance	10-55 Hz, AK: 10 g, RK: 3 g
test voltage, coil/contact	2500 V _{eff}
test voltage, open contact	1500 V _{eff}
insulation resistance	10 ¹² Ohm
weight	app. 80 g
installation situation	any
ambient temperature	max. +70 °C

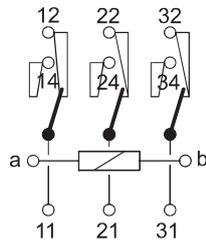
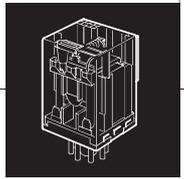
accessories

PCB socket	ZKR 003
metal clamp	ZKR 008

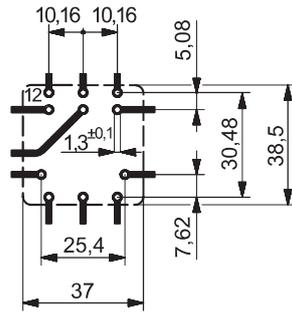
tests, instructions

certificates	UL, CSA, VDE
insulation group	VDE 0110 / group C 250 VAC



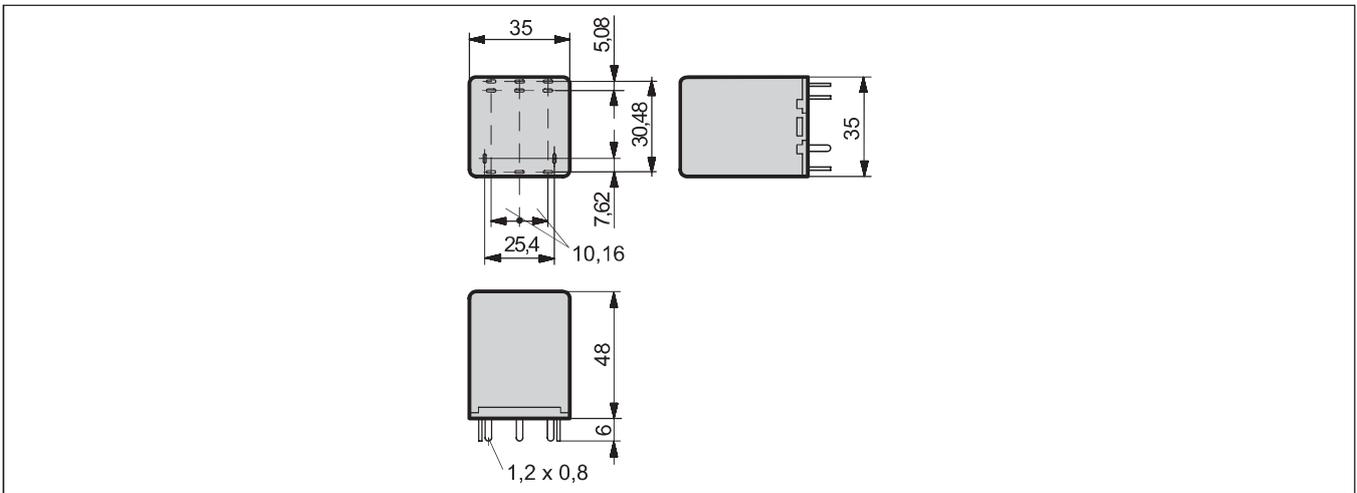


circuit diagram

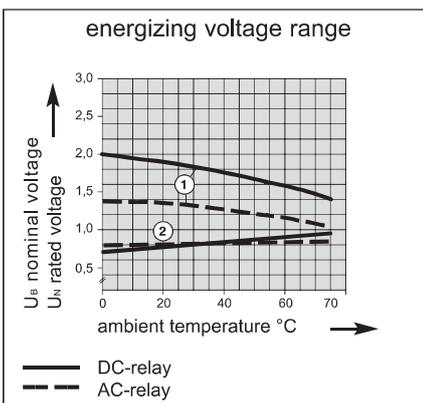


drilling plan (view on solder side)

dimensions



coil specifications



standard coils for direct current (other voltages on enquiry)

rated voltage VDC	pull-in voltage at 20 °C	reset voltage at 20 °C	nominal current mA	resistance Ohm at 20 °C	tolerance %
12	9,6	≥ 0,6	104	115	+/-10
24	19,2	≥ 1,2	50,0	480	+/-10
48	38,4	≥ 2,4	25,9	1850	+/-10
110	88,0	≥ 5,5	12,2	9'000	+/-15
220	176,0	≥ 11	7,58	29'000	+/-15

standard coils for alternated current (other voltages on enquiry)

VAC	pull-in voltage at 20 °C	reset voltage at 20 °C	nominal current mA	resistance Ohm at 20 °C	tolerance %
12	9,6	≥ 0,6	211	13,3	+/-10
24	19,2	≥ 1,2	104	52	+/-10
48	38,4	≥ 2,4	55	240	+/-10
110	88,0	≥ 5,5	23	1'120	+/-10
220	176	≥ 11,0	12,0	4'450	+/-10
230	184	≥ 11,5	11,5	5'600	+/-10

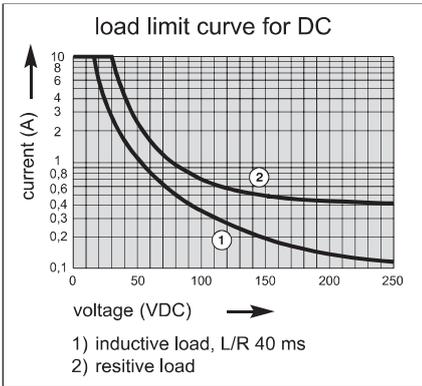
- single relay, no heat concentration by surrounding components with self-heating.
- on time 100%

- 1) max. energizing voltage without contact load
- 2) min. energizing voltage (guaranteed value), without operation in advance.



SKR-contact specifications

AgCuNi single contact



data valid for relay

contact material
contact type
nominal switching capacity

SKR 085
SKR 115
SKR 122

AgCuNi
single contact
250 VAC 10 A AC1 2500 VA
440 VAC 4 A AC1 1600 VA

electric life expectancy

app. 700'000 operations
250 VAC 10 A AC1 (360 operations/h)

max. inrush current

40 A for 20 ms

switching current range

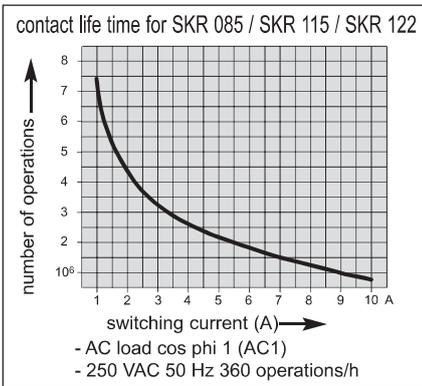
30 mA to 10 A

switching power range

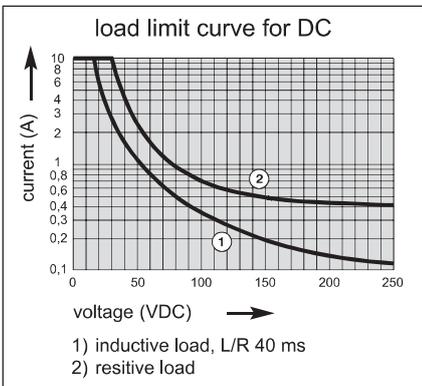
0,18 VA to 2500 VA

contact resistance

20 mΩ



AgCuNi single contact



data valid for relay

contact material
contact type
nominal switching capacity

SKR 128
SKR 138

AgCuNi
single contact
250 VAC 10 A DC1
30 VDC 10 A DC1

electric life expectancy

app. 100'000 operations
250 VAC 10 A AC1 (360 operations/h)

max. inrush current

40 A for 20 ms

switching current range

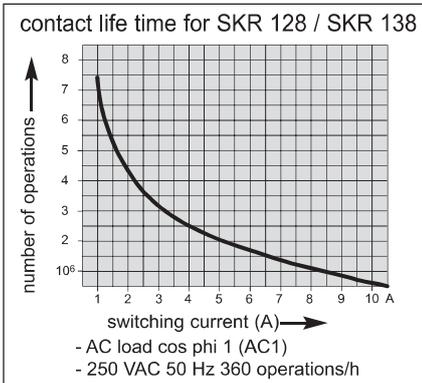
30 mA to 10 A

switching power range

0,18 VA to 2500 VA

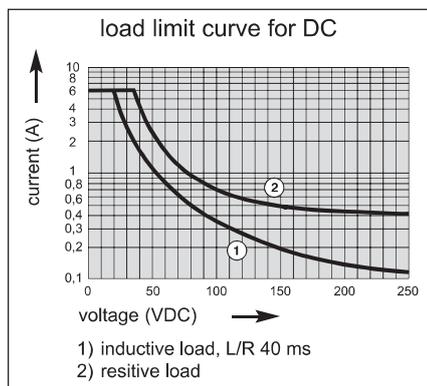
contact resistance

20 mΩ



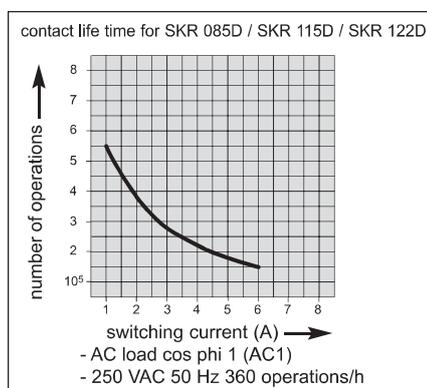
SKR-contact specifications

AgNi double contact

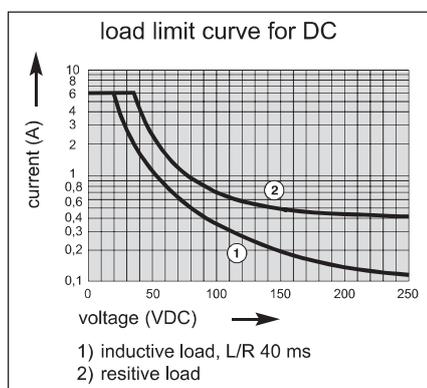


data valid for relay

	SKR 085D SKR 115D SKR 122D
contact material	AgNi
contact type	double contact
nominal switching capacity	250 VAC 6 A AC1 1500 VA
electric life expectancy	app. 150'000 operations 250 VAC 6 A AC1 (360 operations/h)
max. inrush current	15 A für 20 ms
switching current range	10 mA to 6 A
switching power range	0,06 VA to 1500 VA
contact resistance	10 mΩ

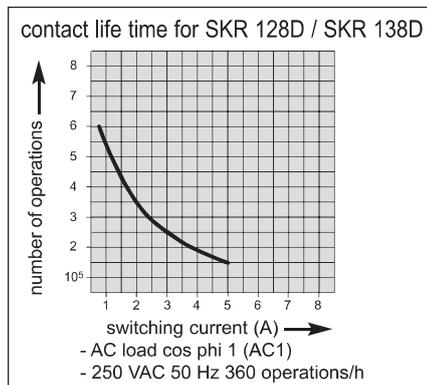


AgNi double contact



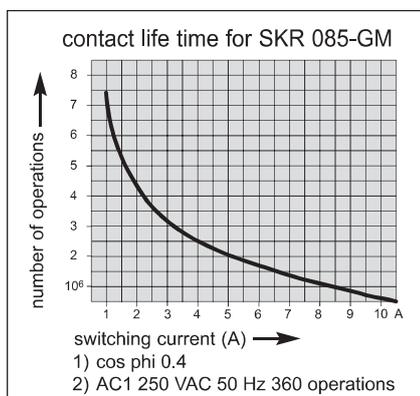
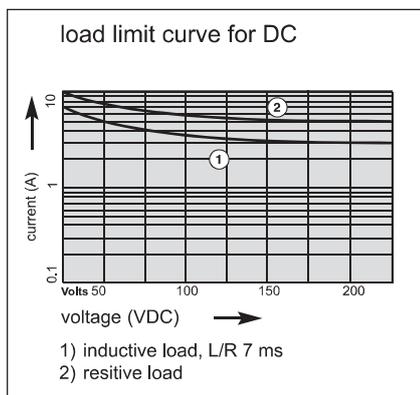
data valid for relay

	SKR 128D SKR 138D
contact material	AgNi
contact type	double contact
nominal switching capacity	250 VAC 10A AC1 30 VDC 10A AC1
electric life expectancy	app. 100'000 operations 250 VAC 6 A AC1 (360 operations/h)
max. inrush current	15 A für 20 ms
switching current range	10 mA to 6 A
switching power range	0,06 VA to 1500 VA
contact resistance	10 mΩ



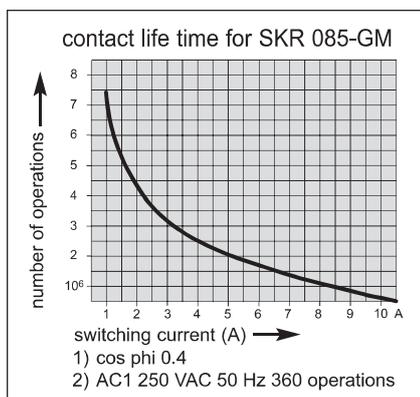
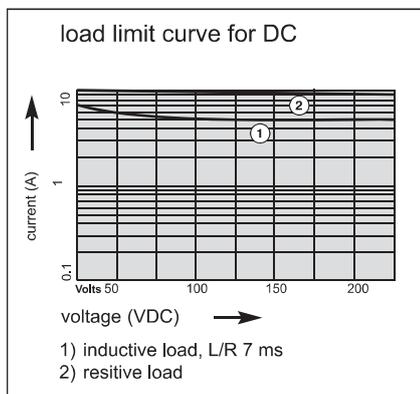
SKR-contact specifications

AgCuNi single contact



data valid for relay	SKR 085-M
contact material	AgCuNi
contact type	single contact
nominal switching capacity	10 A 250 VAC 1 2.5 A 220 VDC 1 (NC) 5.0 A 220 VDC 1 (NO) 2.0 A 220 VDC L/R 7ms (NC) 3.0 A 220 VDC L/R 7ms (NO)
electric life expectancy at nominal load	≥ 100,000 operations
peak. inrush current	30A for 20 ms
switching current max.	10 A
switching power range	0,3 VA to 2500 VA
contact resistance	20 mΩ

AgCuNi single contact



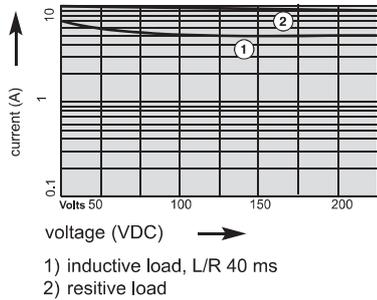
data valid for relay	SKR 085-GM
contact material	AgCuNi
contact type	single contact
nominal switching capacity	10 A 250 VAC 1 10 A 220 VDC 1 5 A 220 VDC L/R 7ms
electric life expectancy at nominal load	≥ 100,000 operations
peak. inrush current	30A for 20 ms
switching current max.	10 A
switching power range	0,3 VA to 2500 VA
contact resistance	20 mΩ



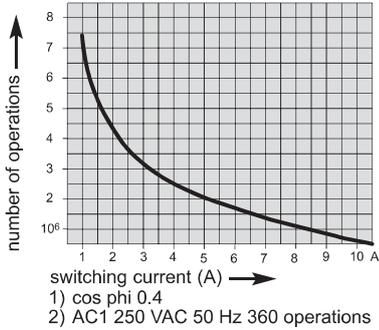
SKR-contact specifications

AgCuNi single contact

load limit curve for DC



contact life time for SKR 085-XM



data valid for relay

contact material

contact type

nominal switching capacity

electric life expectancy nominal load

peak. inrush current

switching current max.

switching power range

contact resistance

SKR 085-XM

AgCuNi

single contact

10 A 250 VAC 1
10 A 220 VDC 1
5 A 220 VDC L/R 7ms

≥ 100,000 operations
250 AC 10 A AC1 (360 operations/h)

30A for 20 ms

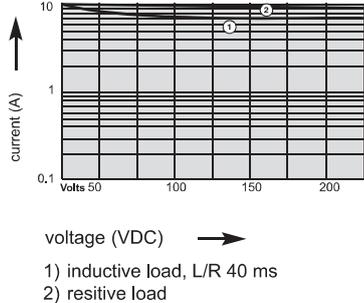
10 A

0,3 VA to 2500 VA

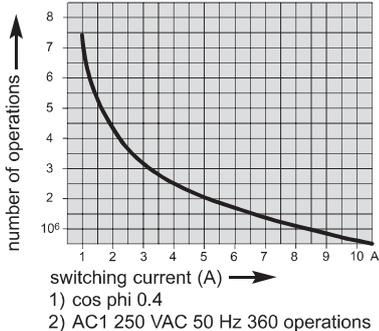
20 mΩ

AgCuNi single contact

load limit curve for DC



contact life time for SKR 085-YM



data valid for relay

contact material

contact type

nominal switching capacity

electric life expectancy at nominal load

peak. inrush current

switching current max.

switching power range

contact resistance

SKR 085-YM

AgCuNi

single contact

10 A 250 VAC 1
10 A 220 VDC 1
7 A 220 VDC L/R 7ms

≥ 100,000 operations
250 AC 10 A AC1 (360 operations/h)

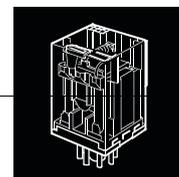
30A for 20 ms

10 A

0,3 VA to 2500 VA

20 mΩ





ZKE 088 matching for SKR 085 / 128

order numbers

ZKE 088

general data

nominal data	max. 10 A 400 V
test voltage	2000 V _{eff}
contact spring material	Ms improved
fixing	soldering pin 1 x M3
creeping resistance	CTI 250
weight	app. 43 gms
installation situation	any
ambient temperature	-40 to +85 °C
number of poles	2-pole
protection standard	IP 30
dimension (LxBxH) in mm	75 x 38 x 26

accessories

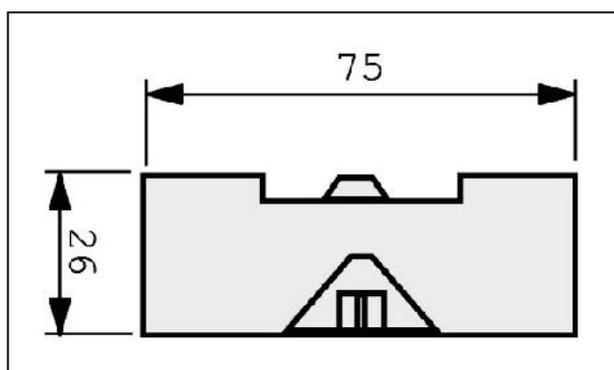
metal clamp	ZKR 008
time modules	STM 100
Plug in modules	E.....

tests, instructions

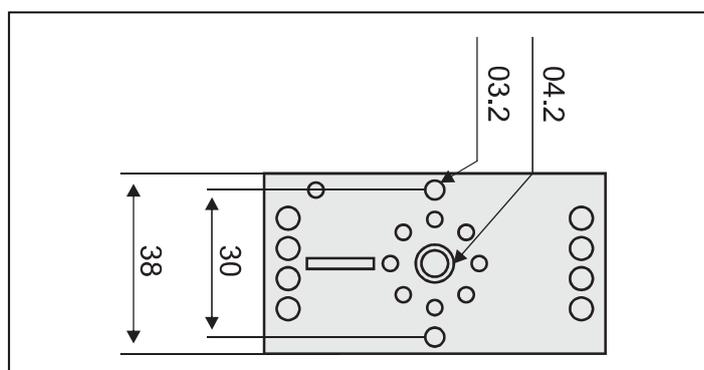
certificates

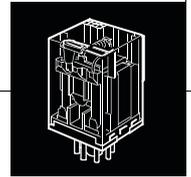


dimensions



drilling plan





ZKE 118 matching for SKR 115 / 138

order numbers

ZKE 118

general data

nominal data	max. 10 A 400 V
test voltage	2000 V _{eff}
contact spring material	Ms improved
fixing	soldering pin 1 x M3
creeping resistance	CTI 250
weight	app. 47 gms
installation situation	any
ambient temperature	-40 to +85 °C
number of poles	3-pole
protection standard	IP 30
dimension (LxBxH) in mm	75 x 38 x 26

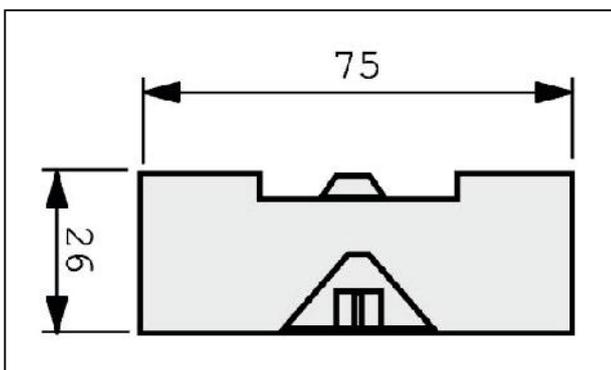
accessories

metal clamp	ZKR 008
time modules	STM 100
Plug in modules	E.....

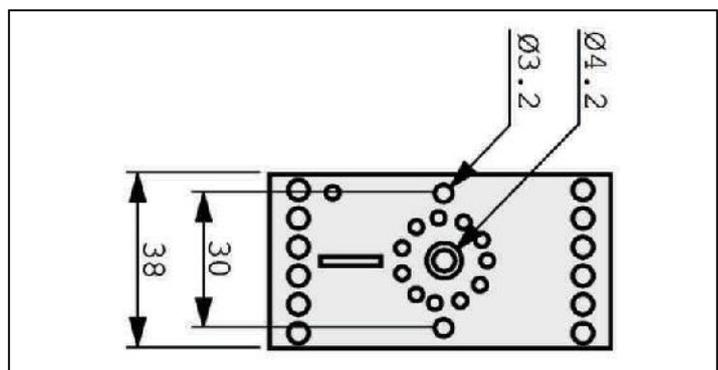
tests, instructions

certificates **CE**

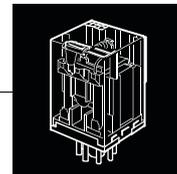
dimensions



drilling plan



ZKR-DIN - socket with accessories - 3 pole



ZKR 119 matching for SKR 115 / 138

order numbers

ZKR 119

general data

max. 10 A 400 V

nominal data	max. 10 A 250 V
test voltage	2000 V _{eff}
contact spring material	Ms improved
fixing	soldering pin 1 x M3
creeping resistance	CTI 250
weight	app. 47 gms
installation situation	any
ambient temperature	-40 to +85 °C
number of poles	3-pole
protection standard	IP 20
dimension (LxBxH) in mm	63 x 38 x 28

accessories

metal clamp

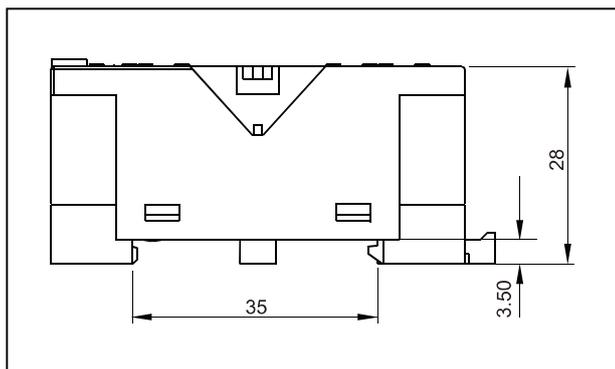
ZKR 008

tests, instructions

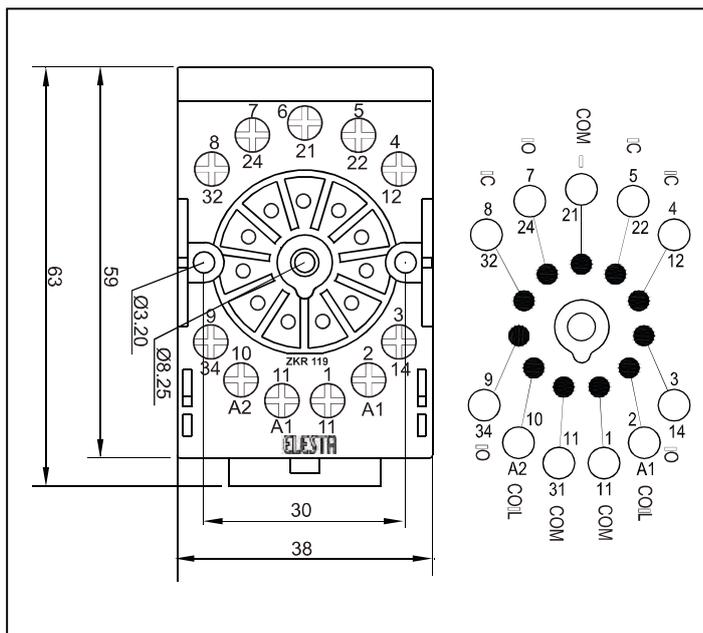
certificates



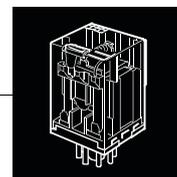
dimensions



drilling plan



ZKR-DIN - socket with accessories - 3 pole



ZKR 089 matching for SKR 085 / 128

order numbers

ZKR 089

general data

nominal data	max. 10 A 250 V
test voltage	2000 V _{eff}
contact spring material	Ms improved
fixing	soldering pin 1 x M3
creeping resistance	CTI 250
weight	app. 47 gms
installation situation	any
ambient temperature	-40 to +85 °C
number of poles	2-pole
protection standard	IP 20
dimension (LxBxH) in mm	63 x 38 x 28

accessories

metal clamp

ZKR 008

tests, instructions

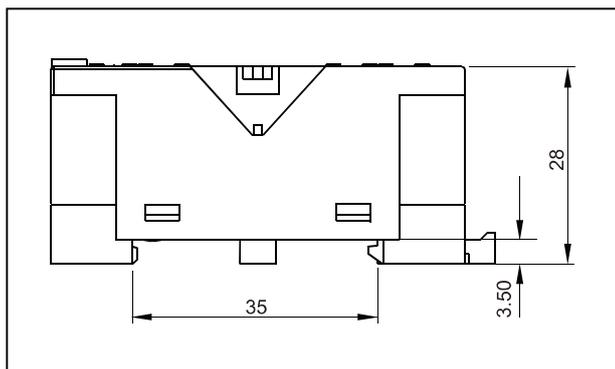
certificates

UL, CSA

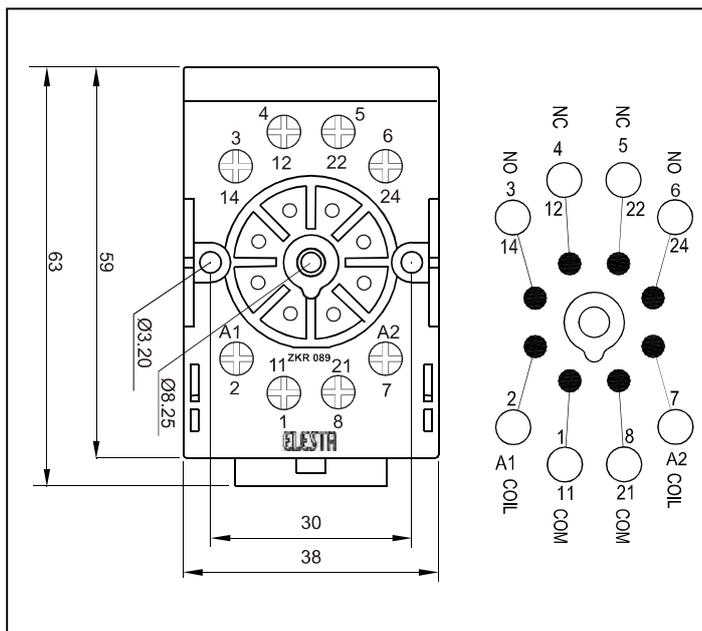
insulation group

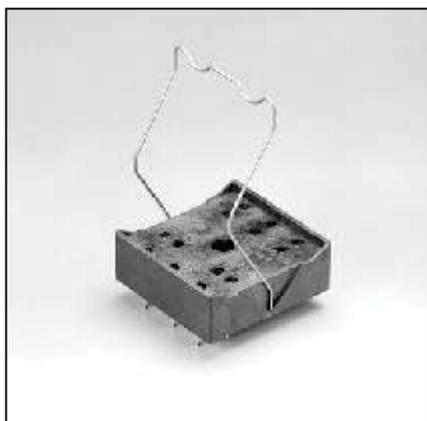
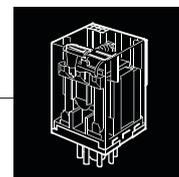
VDE 0110 / group C 250 VAC

dimensions



drilling plan





ZKR 003 matching to SKR 122

order numbers

ZKR 003

general data

nominal data	max. 10 A 400 V
test voltage	2000 V _{eff}
contact spring material	Ms improved
fixing	soldering pin 1 x M3
creeping resistance	CTI 250
weight	app. 7 g
installation situation	any
ambient temperature	-40 to +85 °C
number of poles	11-pole
protection standard	IP 30

accessories

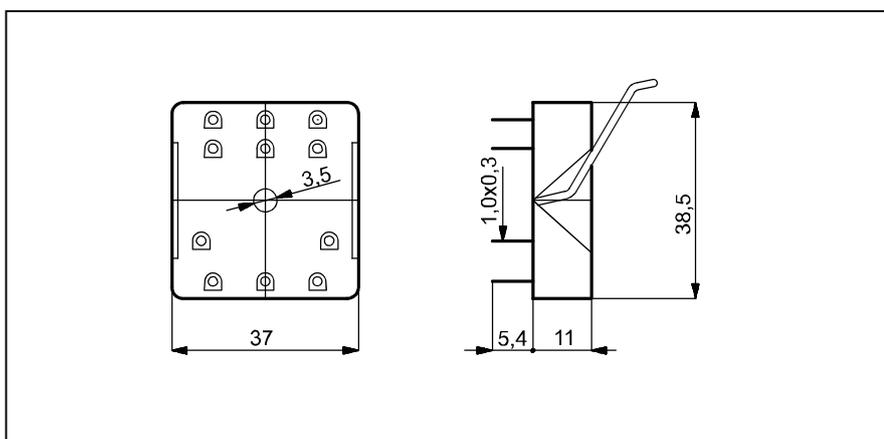
metal clamp ZKR 008

tests, instructions

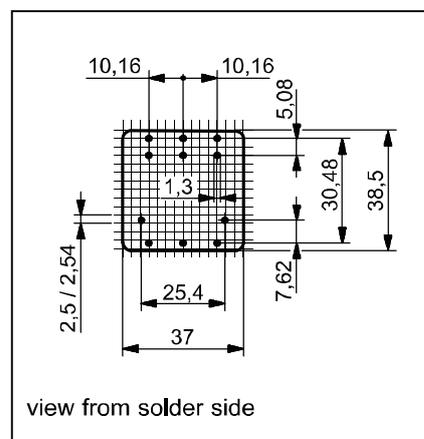
certificates

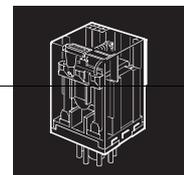


dimensions



drilling plan





time modules

STM 100



data

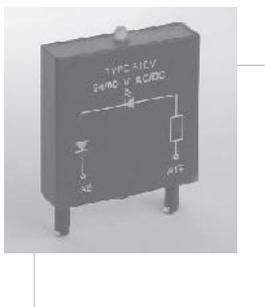
compatible to socket	ZKE088/118
function	programmable
time range	0,05s - 240h
rated voltage	24 - 240 VDC/VAC

general data

time range	8 ranges: 1s, 10s, 1m, 10m, 1h, 10h, 1d, 10d
time adjustment	variable, 5% - 100% of the time range
time function	8 functions, selectable by DIP switches
display	green LED for ON-status, blinking at time delay
dimensions	B x H x T = 35 x 46,7 x 10,3 mm (without clamp)
weight	app. 14 g
permissible ambient temperature	-25 to +55 °C
nominal voltage	24V to 240V AC (-15%...+10%) , 24V to 250V DC (-15%...+10%)
frequency	48 Hz to 63 Hz
max. power consumption	24V AC/DC: 70mW , 240V AC/DC: 700mW
min. impulse time (B1)	AC: 50ms, DC: 30 ms
min. pause time (B1)	AC&DC: 100ms at 25°C, AC&DC: 140ms at 55°C
pull-in delay	AC: max. 40ms, DC: 20ms
reset time delay	AC&DC: max. 100ms at 25°C, AC&DC: max. 140ms at 55°C
control voltage	24V: min. 80% of supply voltage 230V: min. 95% of supply voltage
time delay after power loss	max. 10ms
start-up time	60ms
re-readiness time	max. 100ms at 25°C, max. 150ms at 55°C
reset at \leq	UN 10V _{eff}
precision at the scale stops	$\pm 0,5\%$
repeatability	<0,5% or 5ms (in % from scale value)
accuracy in adjustment	$\leq 5\%$
temperature influence	$\leq 0,01\%$ / °C
voltage influence	$\leq 0,001\%$ / V
max. load current	100mA at 25°C

plug-in modules

E...



data

compatible to socket	ZKE088/118
free wheel diode	6 - 220 VDC E 21
RC-circuit	110 - 230 VAC E 51C
varistor	6 - 24 VAC E 71
varistor	6 - 230 VAC E 81
LED	24 - 60 VDC/ VAC E 61EV
LED	110 - 230 VDC/ VAC E 91V

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