

Single relay - REL-IR-BL/L-115AC/4X21



1109564

<https://www.phoenixcontact.com/in/products/1109564>

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Plug-in industrial relay in basic design with power contacts, 4 changeover contacts, test button, status LED, mechanical switch position indicator, input voltage: 115 V AC

Commercial Data

Item number	1109564
Packing unit	10 pc
Minimum order quantity	1 pc
Sales Key	CK6
Product Key	CK6193
GTIN	4063151021535
Weight per Piece (including packing)	31.344 g
Weight per Piece (excluding packing)	31.344 g
Customs tariff number	85364900
Country of origin	AT

Single relay - REL-IR-BL/L-115AC/4X21



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Technical Data

Notes

Notes on operation	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
Notes on operation	The outputs are not suitable for switching different outer conductors.
Notes on operation	Do not use to separate SELV / PELV circuits from other circuits, because safe isolation is not guaranteed.

Product properties

Product type	Single relay
Operating mode	100% operating factor
Mechanical service life	2x 10 ⁷ cycles

Insulation characteristics

Overvoltage category	III
Pollution degree	2
Insulation	Basic insulation

Electrical properties

Service life electrical	see diagram
Test voltage Winding/contact	2.5 kV _{rms} (50 Hz, 1 min., winding/contact)
Test voltage Changeover contact/changeover contact	2 kV _{rms} (50 Hz, 1 min., changeover contact/changeover contact)
Rated insulation voltage	250 V AC
Rated surge voltage	5 kV

Input data

Coil side

Nominal input voltage U _N	115 V AC
Input voltage range	92 V AC ... 189.8 V AC (20 °C)
Mains frequency	50/60 Hz
Typical input current at U _N	9.2 mA (50 Hz)
Typical response time	5 ms ... 15 ms
Typical release time range	5 ms ... 20 ms
Coil voltage	115 V AC
Status display	Yellow LED
Coil resistance	4.8 kΩ ±12 %

Output data

Switching

Contact type	4 changeover contacts
Type of switch contact	Single contact
Drive and function	monostable

Single relay - REL-IR-BL/L-115AC/4X21



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Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (10 mA)
Limiting continuous current	6 A
Maximum inrush current	12 A (20 ms, N/O contacts)
Min. switching current	10 mA (12 V)
Interrupting rating (ohmic load) max.	144 W (24 V DC)
	130 W (48 V DC)
	90 W (60 V DC)
	66 W (110 V DC)
	88 W (220 V DC)
Switching capacity min.	1500 VA (250 V AC)
	120 mW

Dimensions

Width	22.5 mm
Height	28 mm
Depth	35.5 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	RT II
Degree of protection Installation location	≥ IP54 (Installation location)
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Altitude	≤ 2000 m

Standards and regulations

Air clearances and creepage distances between coil and contact side

Standards/regulations	EN 61810-1
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Mounting

Assembly instructions	in rows with zero spacing
Mounting position	any

Single relay - REL-IR-BL/L-115AC/4X21

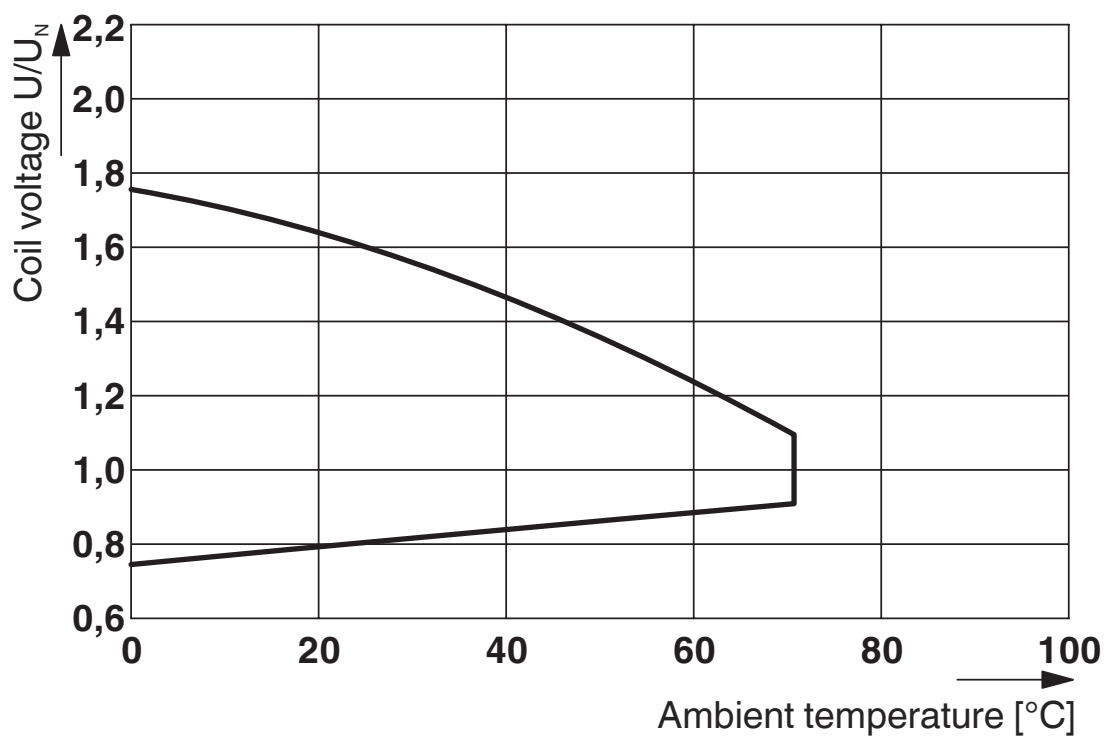


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Drawings

Diagram

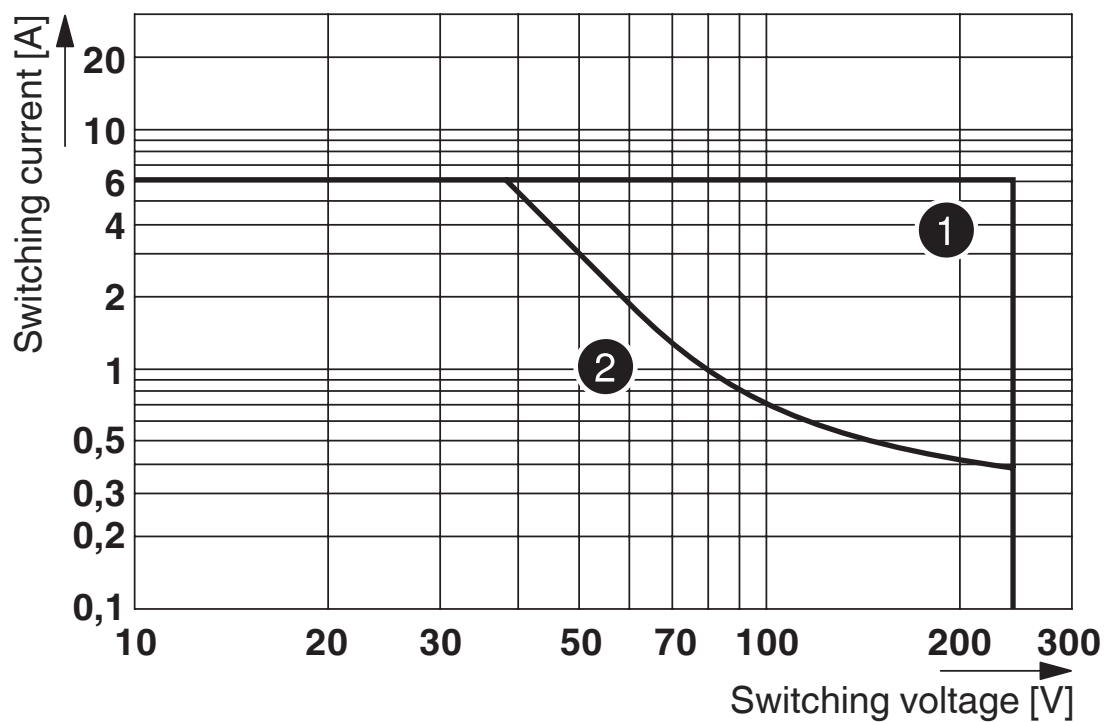


Operating voltage range

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Diagram



- ① AC, ohmic load
- ② DC, ohmic load

Interrupting rating

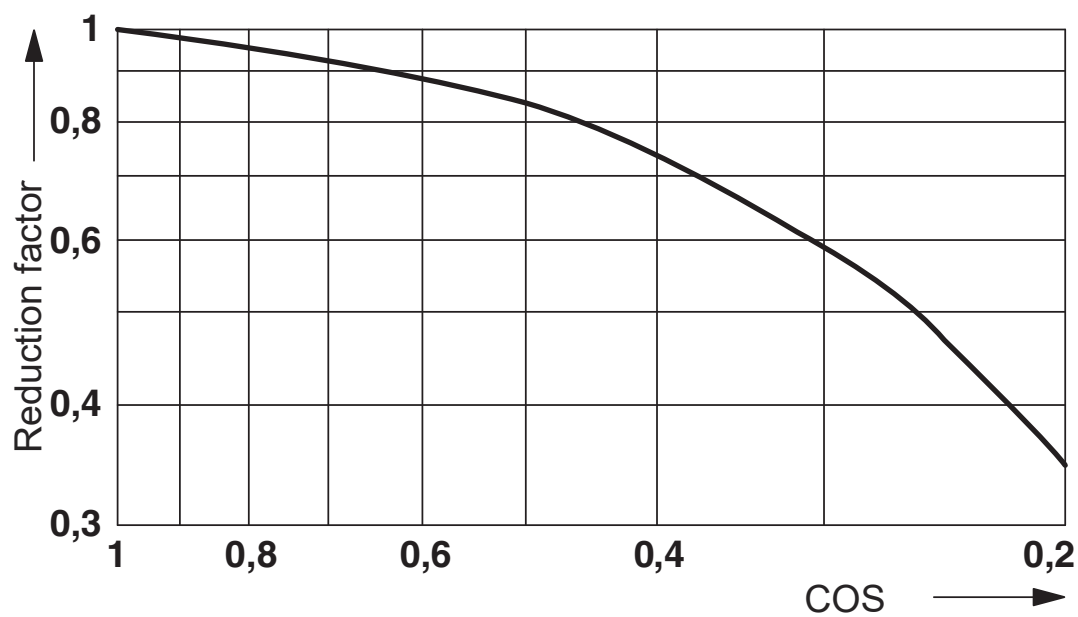
Single relay - REL-IR-BL/L-115AC/4X21



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Diagram

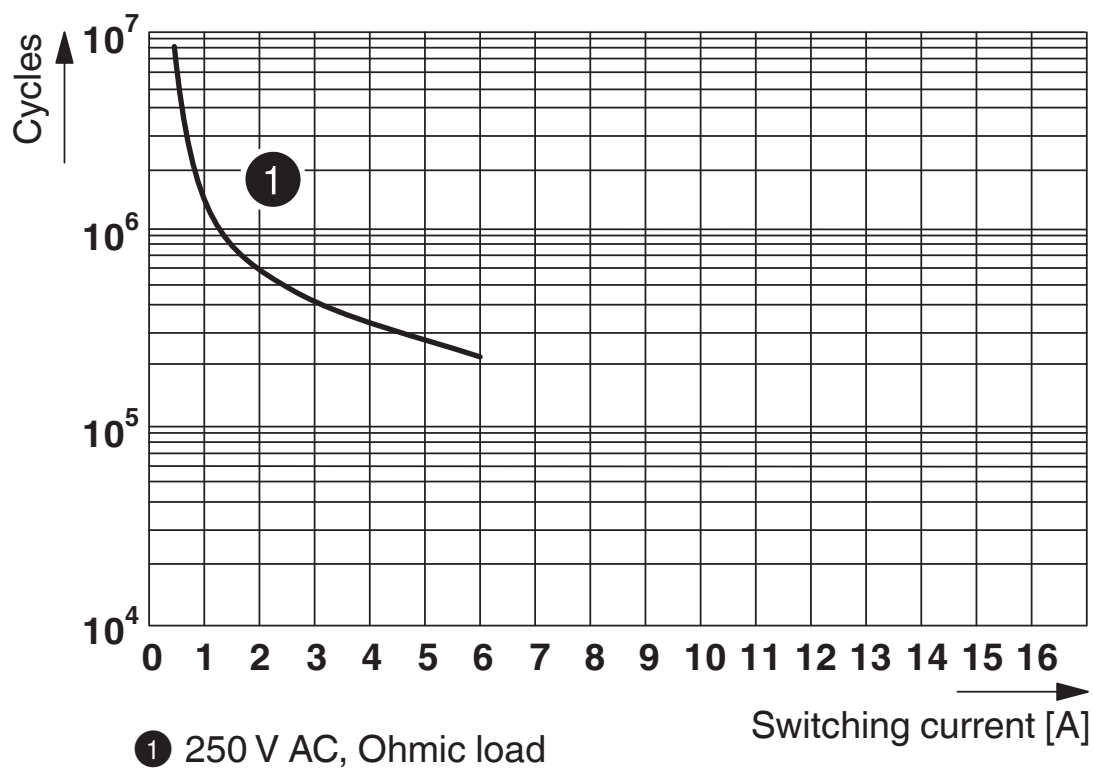


Service life reduction factor

1109564

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Diagram



Electrical service life

Single relay - REL-IR-BL/L-115AC/4X21



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Approvals



cUL Recognized
Approval ID: FILE E 228652



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Approval ID: FILE E 228652

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Single relay - REL-IR-BL/L-115AC/4X21



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Classifications

ECLASS

ECLASS-9.0	27371601
ECLASS-10.0.1	27371601
ECLASS-11.0	27371601

ETIM

ETIM 8.0	EC001437
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UNSPSC

UNSPSC 21.0	39122300
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Single relay - REL-IR-BL/L-115AC/4X21



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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Single relay - REL-IR-BL/L-115AC/4X21



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Accessories

Relay base

Relay base - ECOR-2-BSC2-RT/4X21 - 2908214

<https://www.phoenixcontact.com/in/products/2908214>

ECOR-2 relay base, for industrial relays with four changeover contacts, bolt connection, for mounting on NS 35/7,5



Relay base

Relay base - ECOR-2-BSC3/4X21 - 2907521

<https://www.phoenixcontact.com/in/products/2907521>

ECOR-2 relay base, for industrial relay with 2 or 4 changeover contacts, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5



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Single relay - REL-IR-BL/L-115AC/2X21



1109556

<https://www.phoenixcontact.com/in/products/1109556>

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Plug-in industrial relay in basic design with power contacts, 2 changeover contacts, test button, status LED, mechanical switch position indicator, input voltage: 115 V AC

Commercial Data

Item number	1109556
Packing unit	10 pc
Minimum order quantity	1 pc
Sales Key	CK6
Product Key	CK6193
GTIN	4063151020132
Weight per Piece (including packing)	30.332 g
Weight per Piece (excluding packing)	30.332 g
Customs tariff number	85364900
Country of origin	AT

Single relay - REL-IR-BL/L-115AC/2X21



1109556

<https://www.phoenixcontact.com/in/products/1109556>

Technical Data

Notes

Notes on operation	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
Notes on operation	The outputs are not suitable for switching different outer conductors.
Notes on operation	Do not use to separate SELV / PELV circuits from other circuits, because safe isolation is not guaranteed.

Product properties

Product type	Single relay
Operating mode	100% operating factor
Mechanical service life	2x 10 ⁷ cycles

Insulation characteristics

Overvoltage category	III
Pollution degree	2
Insulation	Basic insulation

Electrical properties

Service life electrical	see diagram
Test voltage Winding/contact	2.5 kV _{rms} (50 Hz, 1 min., winding/contact)
Test voltage Changeover contact/changeover contact	2.5 kV _{rms} (50 Hz, 1 min., changeover contact/changeover contact)
Rated insulation voltage	250 V AC
Rated surge voltage	5 kV

Input data

Coil side

Nominal input voltage U _N	115 V AC
Input voltage range	92 V AC ... 189.8 V AC (20 °C)
Mains frequency	50/60 Hz
Typical input current at U _N	9.2 mA
Typical response time	5 ms ... 15 ms
Typical release time range	5 ms ... 20 ms
Coil voltage	115 V AC
Status display	Yellow LED
Coil resistance	4.8 kΩ ±12 %

Output data

Switching

Contact type	2 changeover contacts
Type of switch contact	Single contact

Single relay - REL-IR-BL/L-115AC/2X21



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Drive and function	monostable
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (10 mA)
Limiting continuous current	12 A
Maximum inrush current	24 A (20 ms, N/O contacts)
Min. switching current	10 mA (12 V)
Interrupting rating (ohmic load) max.	288 W (24 V DC)
	130 W (48 V DC)
	90 W (60 V DC)
	66 W (110 V DC)
	88 W (220 V DC)
	3000 VA (250 V AC)
Switching capacity min.	120 mW

Dimensions

Width	22.5 mm
Height	28 mm
Depth	35.5 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	RT II
Degree of protection Installation location	≥ IP54 (Installation location)
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Altitude	≤ 2000 m

Standards and regulations

Air clearances and creepage distances between coil and contact side

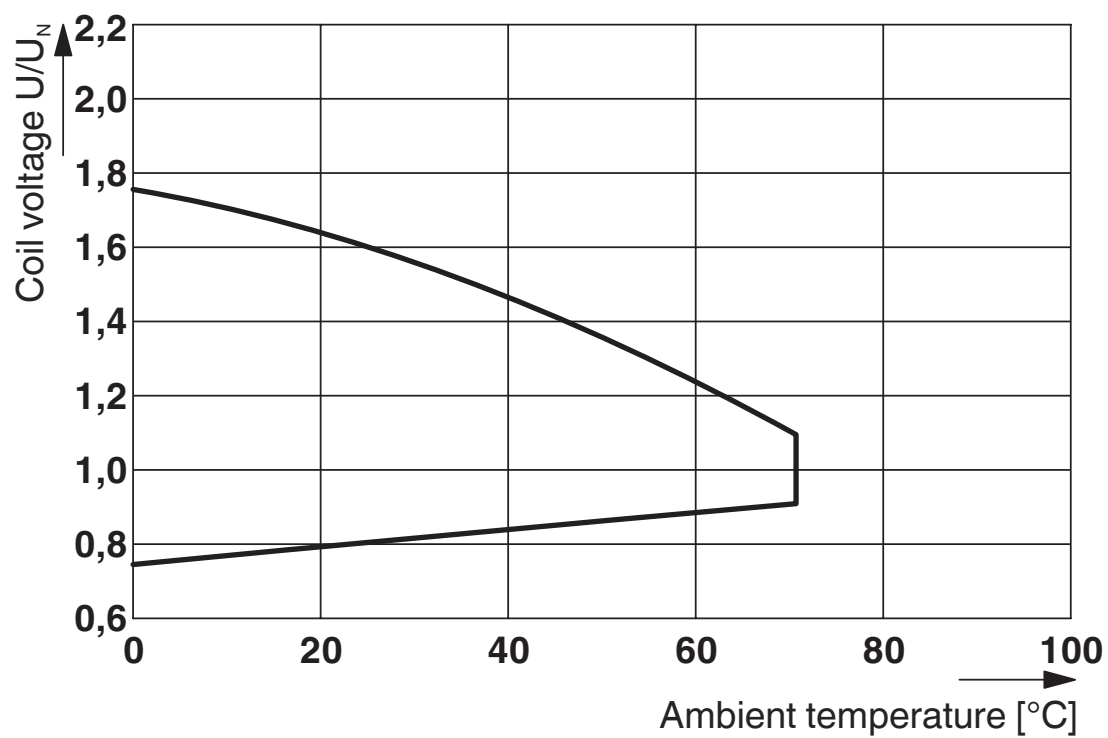
Standards/regulations	EN 61810-1
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Mounting

Assembly instructions	in rows with zero spacing
Mounting position	any

Drawings

Diagram

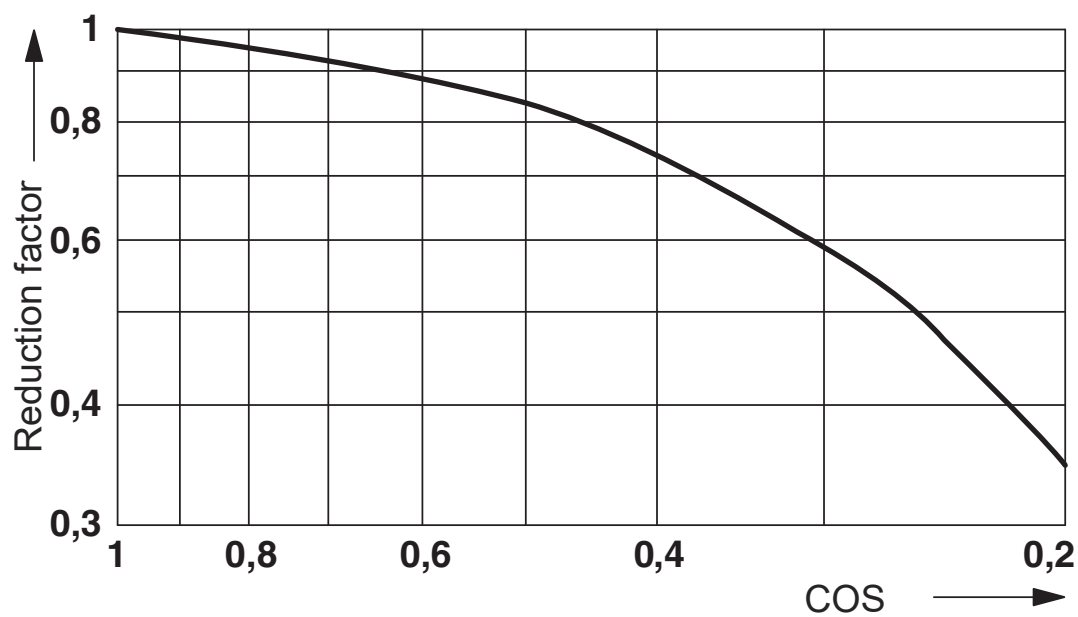


Operating voltage range

1109556

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Diagram

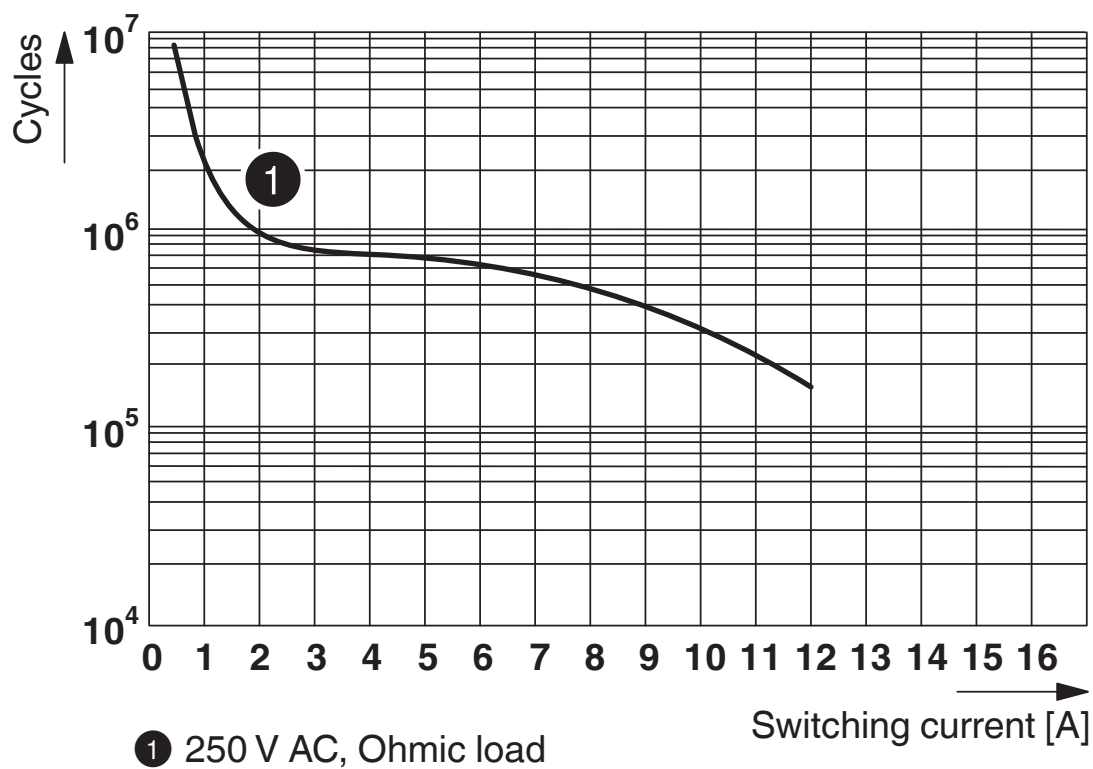


Service life reduction factor

1109556

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Diagram

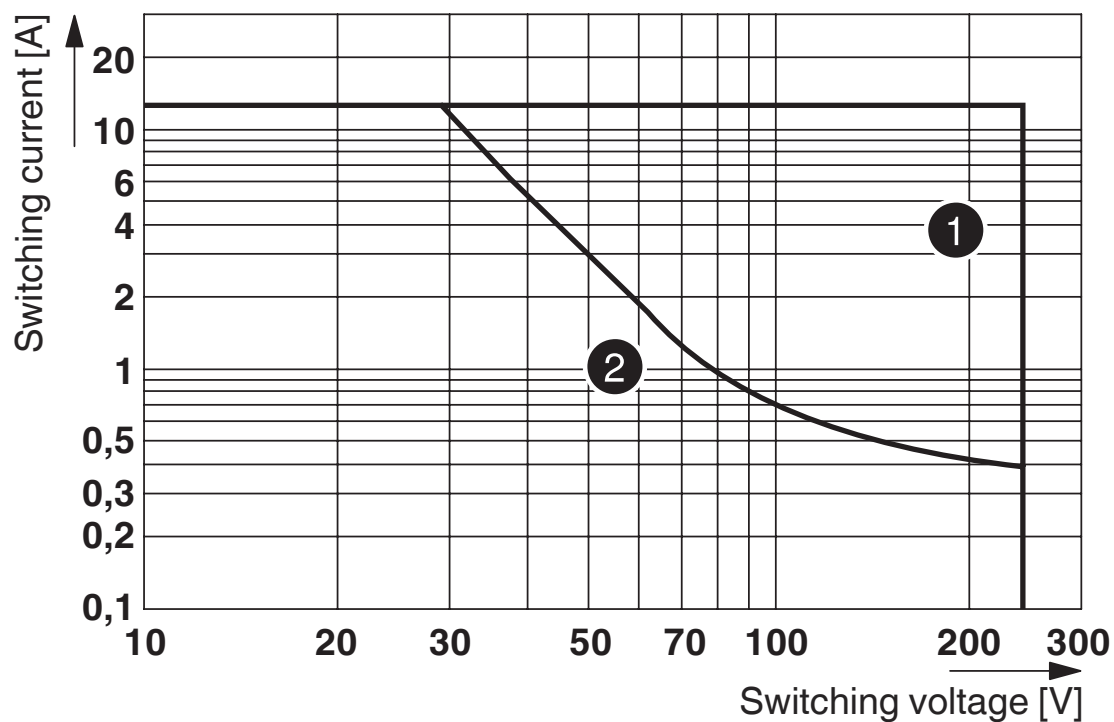


Electrical service life

1109556

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Diagram



- ① AC, ohmic load
- ② DC, ohmic load

Interrupting rating

Single relay - REL-IR-BL/L-115AC/2X21



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Approvals



cUL Recognized
Approval ID: FILE E 228652



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Single relay - REL-IR-BL/L-115AC/2X21



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Classifications

ECLASS

ECLASS-9.0	27371601
ECLASS-10.0.1	27371601
ECLASS-11.0	27371601

ETIM

ETIM 8.0	EC001437
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UNSPSC

UNSPSC 21.0	39122300
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Single relay - REL-IR-BL/L-115AC/2X21



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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Single relay - REL-IR-BL/L-115AC/2X21



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Accessories

Relay base

Relay base - ECOR-2-BSC2-RT/2X21 - 2908341

<https://www.phoenixcontact.com/in/products/2908341>

ECOR-2 relay base, for industrial relays with two changeover contacts, bolt connection, for mounting on NS 35/7,5



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Single relay - REL-IR-BL/L-230AC/4X21



1032531

<https://www.phoenixcontact.com/in/products/1032531>

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Plug-in industrial relay with power contacts, 4 changeover contacts, test button, status LED, mechanical switch position indicator, input voltage: 230 V AC

Commercial Data

Item number	1032531
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to Order (non-returnable)
Sales Key	CK6
Product Key	CK6193
GTIN	4055626537047
Weight per Piece (including packing)	30.02 g
Weight per Piece (excluding packing)	30.02 g
Customs tariff number	85364900
Country of origin	AT

Single relay - REL-IR-BL/L-230AC/4X21



1032531

<https://www.phoenixcontact.com/in/products/1032531>

Technical Data

Notes

Notes on operation	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
Notes on operation	The outputs are not suitable for switching different outer conductors.
Notes on operation	Do not use to separate SELV / PELV circuits from other circuits, because safe isolation is not guaranteed.

Product properties

Product type	Single relay
Operating mode	100% operating factor
Mechanical service life	2x 10 ⁷ cycles

Insulation characteristics

Overvoltage category	III
Pollution degree	2
Insulation	Basic insulation

Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	1 VA
Test voltage Winding/contact	2.5 kV _{rms} (50 Hz, 1 min., winding/contact)
Test voltage Changeover contact/changeover contact	2 kV _{rms} (50 Hz, 1 min., changeover contact/changeover contact)
Rated insulation voltage	250 V AC
Rated surge voltage	5 kV

Input data

Coil side

Nominal input voltage U _N	230 V AC
Input voltage range	184 V AC ... 379.5 V AC (20 °C)
Mains frequency	50/60 Hz
Typical input current at U _N	4.4 mA (50 Hz)
Typical response time	5 ms ... 15 ms
Typical release time range	5 ms ... 20 ms
Coil voltage	230 V AC
Status display	Yellow LED

Output data

Switching

Contact type	4 changeover contacts
Type of switch contact	Single contact
Drive and function	monostable

Single relay - REL-IR-BL/L-230AC/4X21



1032531

<https://www.phoenixcontact.com/in/products/1032531>

Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (10 mA)
Limiting continuous current	6 A
Maximum inrush current	12 A (20 ms, N/O contacts)
Min. switching current	10 mA (12 V)
Interrupting rating (ohmic load) max.	144 W (24 V DC)
	130 W (48 V DC)
	90 W (60 V DC)
	66 W (110 V DC)
	88 W (220 V DC)
	1500 VA (250 V AC)
Switching capacity min.	120 mW

Dimensions

Width	22.5 mm
Height	28 mm
Depth	35.5 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	RT II
Degree of protection Installation location	≥ IP54 (Installation location)
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Altitude	≤ 2000 m

Standards and regulations

Air clearances and creepage distances between coil and contact side

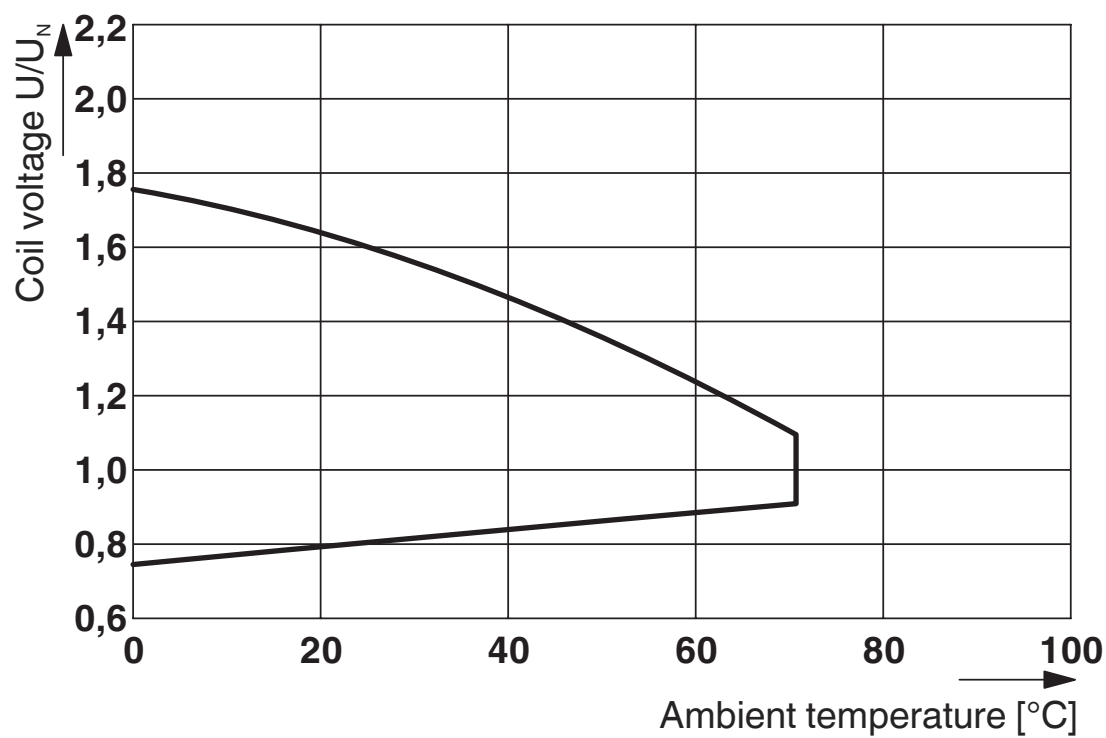
Standards/regulations	EN 61810-1
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Mounting

Assembly instructions	in rows with zero spacing
Mounting position	any

Drawings

Diagram

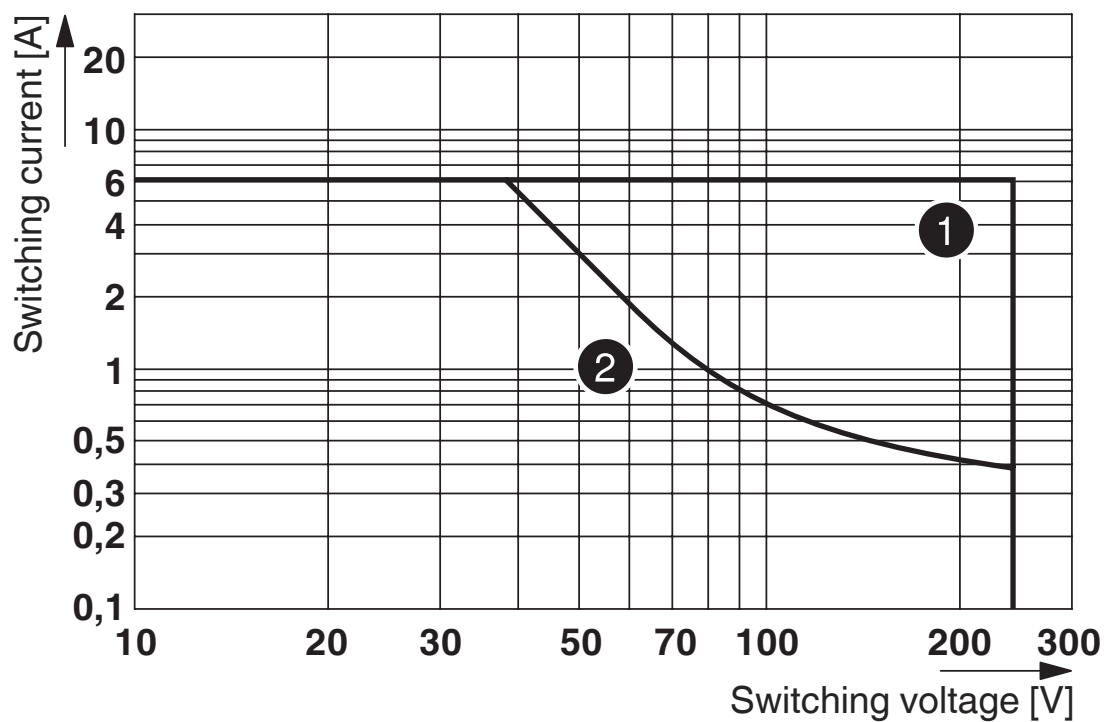


Operating voltage range

1032531

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Diagram



- ① AC, ohmic load
- ② DC, ohmic load

Interrupting rating

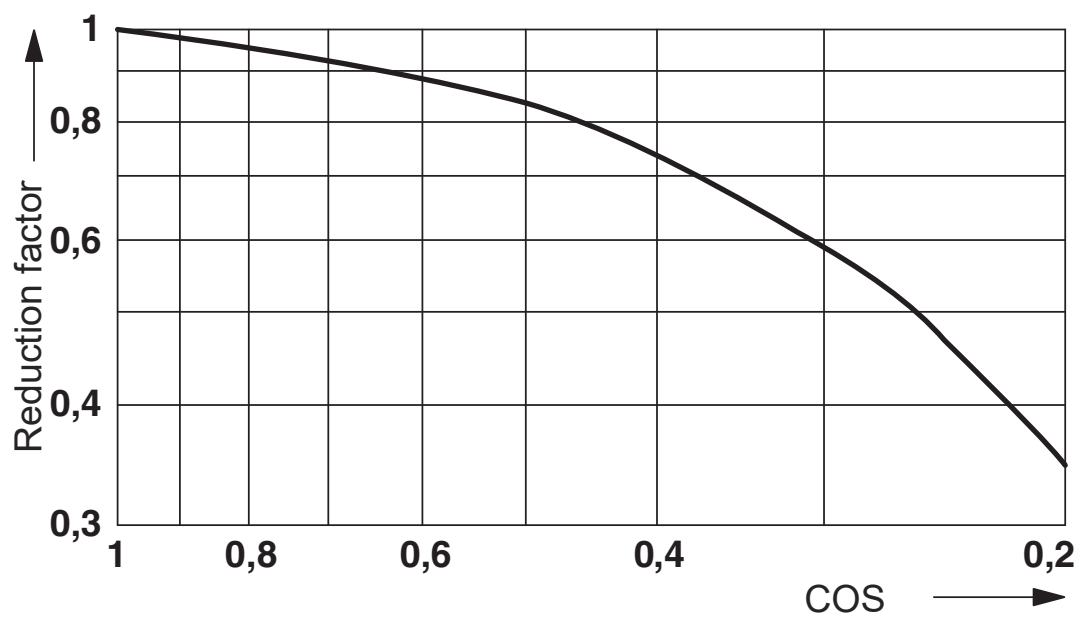
Single relay - REL-IR-BL/L-230AC/4X21



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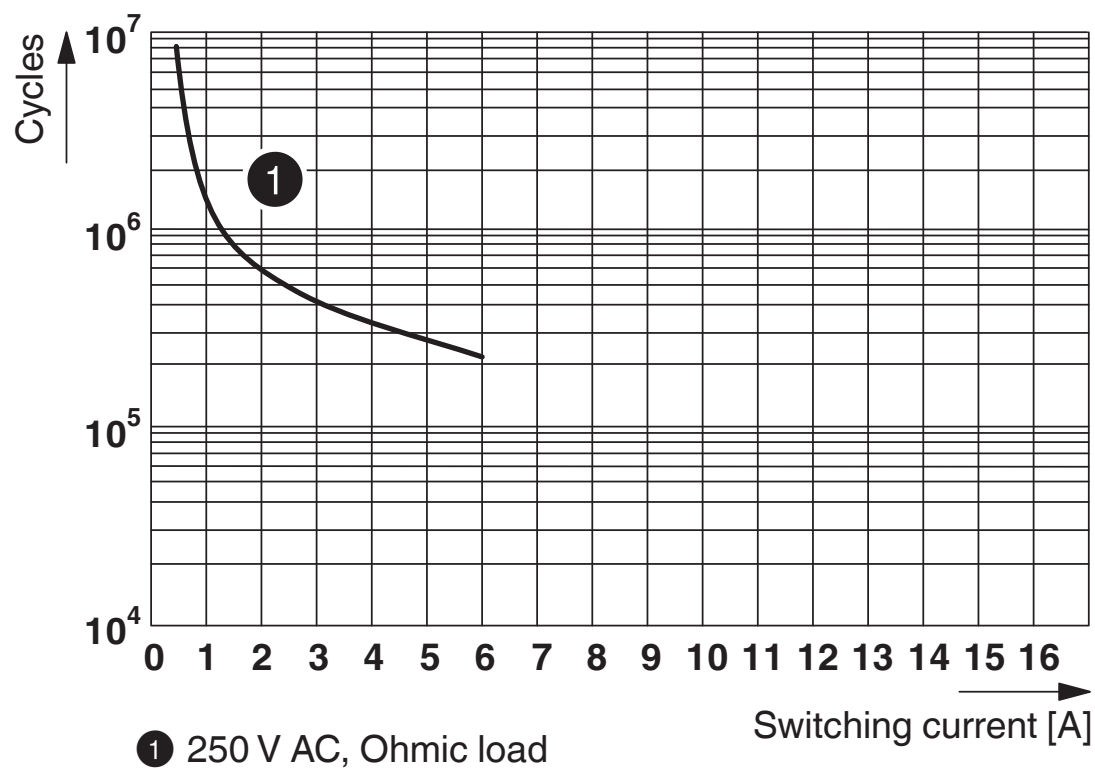
<https://www.phoenixcontact.com/in/products/1032531>

Diagram



Service life reduction factor

Diagram



Electrical service life

Single relay - REL-IR-BL/L-230AC/4X21



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Approvals



cUL Recognized

Approval ID: FILE E 228652



UL Recognized

Approval ID: FILE E 228652



EAC

Approval ID: TR_TS_D_00573_c



EAC

Approval ID: RU*C-DE.*08.B.00010

cULus Recognized

Single relay - REL-IR-BL/L-230AC/4X21



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Classifications

ECLASS

ECLASS-9.0	27371601
ECLASS-10.0.1	27371601
ECLASS-11.0	27371601

ETIM

ETIM 8.0	EC001437
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UNSPSC

UNSPSC 21.0	39122300
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Single relay - REL-IR-BL/L-230AC/4X21



1032531

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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Single relay - REL-IR-BL/L-230AC/4X21



1032531

<https://www.phoenixcontact.com/in/products/1032531>

Accessories

Relay base

Relay base - ECOR-2-BSC2-RT/4X21 - 2908214

<https://www.phoenixcontact.com/in/products/2908214>

ECOR-2 relay base, for industrial relays with four changeover contacts, bolt connection, for mounting on NS 35/7,5



Relay base

Relay base - ECOR-2-BSC3/4X21 - 2907521

<https://www.phoenixcontact.com/in/products/2907521>

ECOR-2 relay base, for industrial relay with 2 or 4 changeover contacts, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5



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