

Relay base - PLC-BPT- 5DC/1/SSI - 1094755

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6.2 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, internal amplifier circuit, and an appropriate auxiliary supply for weak signal sources, 5 V DC nominal input voltage



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
Custom tariff number	85366990
Country of origin	Germany

Technical data

Note

Type of note	Notes on operation
Note	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
Type of note	Notes on operation
Note	The outputs are not suitable for switching different outer conductors with appropriate switching output (applies to the AC optocoupler variants and relays).
Type of note	Notes on operation
Note	The system installer must ensure the touch protection of the product (at voltages > 25 V AC/60 V DC). The product is a built-in device without protection against direct contact.
Type of note	Notes on operation
Note	At least one functional insulation against adjacent modules is complied with in the support rail direction. If the application has higher requirements on the insulation (basic or reinforced insulation), then these must be realized through suitable measures (e. g., partition plates).

Relay base - PLC-BPT- 5DC/1/SSI - 1094755

Technical data

Note

Type of note	Notes on operation
Note	Do not use to separate SELV/PELV circuits from other circuits, because safe isolation is not guaranteed. (applies to the optocoupler variants)

Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Maximum altitude	≤ 2000 m
Degree of protection	IP20

Input data

Rated control circuit supply voltage U_S	24 V DC
Voltage range with reference to U_S	0.8 ... 1.2
Rated control supply current I_S	9 mA
Rated actuating current I_C	1 mA
Rated control circuit supply voltage U_S	24 V DC
Voltage range with reference to U_S	0.8 ... 1.2
Rated control supply current I_S	≥ 8 mA (depends on type)
Nominal input voltage U_N	5 V DC
Input voltage range in reference to U_N	0.9 ... 1.2
Status display	Yellow LED
Surge voltage protection	> 33 V

Output data

Fitting of components	REL-MR-24DC/21
Contact type	Single contact, 1 N/O contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	on request
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)

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Technical data

Output data

	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity min.	120 mW
Fitting of components	REL-MR-24DC/21AU
Contact type	Single contact, 1 N/O contact
Contact material	AgSnO, hard gold-plated
Note	If the specified maximum values are exceeded, the gold plating is destroyed. The maximum values of the power contact relay are then valid. This can result in a shorter service life than with a pure power contact.
Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	100 mV
Limiting continuous current	50 mA
Maximum inrush current	50 mA
Min. switching current	1 mA
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
Switching capacity min.	100 µW
Fitting of components	REL-MR-24DC/21MS
Contact type	Single contact, 1 N/O contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	on request
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity min.	120 mW
Fitting of components	OPT-24DC/48DC/100
Maximum switching voltage	48 V DC
Minimum switching voltage	3 V DC
Limiting continuous current	100 mA

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Technical data

Output data

Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection
	Surge protection
Voltage drop at max. limiting continuous current	< 1 V
Fitting of components	OPT-24DC/24DC/2
Maximum switching voltage	33 V DC
Minimum switching voltage	3 V DC
Limiting continuous current	3 A
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection
	Surge protection
Voltage drop at max. limiting continuous current	< 200 mV
Fitting of components	OPT-24DC/230AC/1
Maximum switching voltage	253 V AC (Partition plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal points in adjacent modules. Potential bridging is then carried out with FBST 8-PLC... or ...FBST 500...)
Minimum switching voltage	24 V AC
Limiting continuous current	0.75 A
Maximum inrush current	30 A (10 ms)
Output circuit	2-conductor, floating
Protective circuit	RCV circuit
	Surge protection
Voltage drop at max. limiting continuous current	< 1 V
Leakage current	< 1 mA
Max. load value	4.5 A ² s

General

Operating mode	100% operating factor
Color	gray
Mounting position	any
Assembly instructions	in rows with zero spacing

Connection data

Connection name	Input side
Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²

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Technical data

Connection data

	0.2 mm² ... 2.5 mm² (Single ferrule)
	2x 0.5 mm² ... 1 mm² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Connection data 2

Connection name	Output side
Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section solid	0.14 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
	0.2 mm² ... 2.5 mm² (Single ferrule)
	2x 0.5 mm² ... 1 mm² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Standards and Regulations

Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Rated insulation voltage	250 V AC
Rated surge voltage	6 kV
Insulation	Safe isolation, reinforced insulation
Pollution degree	2
Overvoltage category	III

Conformance/approvals

Designation	Corrosive gas test
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Classifications

eCl@ss

eCl@ss 10.0.1	27371603
eCl@ss 11.0	27371603
eCl@ss 9.0	27371603

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Classifications

ETIM

ETIM 7.0	EC001456
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UNSPSC

UNSPSC 18.0	39122335
UNSPSC 19.0	39122335
UNSPSC 20.0	39122335
UNSPSC 21.0	39122335

Approvals

Approvals

Approvals


UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized


Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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EAC		RU*C- DE.*08.B.00010
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EAC		RU D-DE.B*00573/18
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Relay base - PLC-BPT- 5DC/1/SSI - 1094755

Approvals

cULus Recognized



Accessories

Accessories

Bridge

Continuous plug-in bridge - FBST 500-PLC RD - 2966786



Continuous plug-in bridge, length: 500 mm, color: red

Continuous plug-in bridge - FBST 500-PLC BU - 2966692



Continuous plug-in bridge, length: 500 mm, color: blue

Continuous plug-in bridge - FBST 500-PLC GY - 2966838



Continuous plug-in bridge, length: 500 mm, color: gray

Single plug-in bridge - FBST 6-PLC RD - 2966236



Single plug-in bridge, length: 6 mm, number of positions: 2, color: red

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Accessories

Single plug-in bridge - FBST 6-PLC BU - 2966812



Single plug-in bridge, length: 6 mm, number of positions: 2, color: blue

Single plug-in bridge - FBST 6-PLC GY - 2966825



Single plug-in bridge, length: 6 mm, number of positions: 2, color: gray

Single plug-in bridge - FBST 8-PLC GY - 2967688



Single plug-in bridge, length: 8 mm, number of positions: 2, color: gray

DIN rail

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

Relay base - PLC-BPT- 5DC/1/SSI - 1094755

Accessories

DIN rail perforated - NS 35/ 7,5 WH PERF 2000MM - 1204119



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/ 7,5 WH UNPERF 2000MM - 1204122



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/ 7,5 AL UNPERF 2000MM - 0801704



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

DIN rail perforated - NS 35/ 7,5 ZN PERF 2000MM - 1206421



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/ 7,5 ZN UNPERF 2000MM - 1206434



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

Relay base - PLC-BPT- 5DC/1/SSI - 1094755

Accessories

DIN rail, unperforated - NS 35/ 7,5 CU UNPERF 2000MM - 0801762



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

End cap - NS 35/ 7,5 CAP - 1206560



DIN rail end piece, for DIN rail NS 35/7.5

DIN rail perforated - NS 35/15 PERF 2000MM - 1201730



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail perforated - NS 35/15 WH PERF 2000MM - 0806602



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

Relay base - PLC-BPT- 5DC/1/SSI - 1094755

Accessories

DIN rail, unperforated - NS 35/15 WH UNPERF 2000MM - 1204135



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

DIN rail perforated - NS 35/15 ZN PERF 2000MM - 1206599



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 ZN UNPERF 2000MM - 1206586



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM - 1201895



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

Relay base - PLC-BPT- 5DC/1/SSI - 1094755

Accessories

End cap - NS 35/15 CAP - 1206573



DIN rail end piece, for DIN rail NS 35/15

DIN rail, unperforated - NS 35/15-2,3 UNPERF 2000MM - 1201798



DIN rail, unperforated, Standard profile 2.3 mm, width: 35 mm, height: 15 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

Labeled terminal marker

Zack marker strip - ZB 6 CUS - 0824992



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

Zack marker strip - ZB 6,LGS:FORTL.ZAHLEN - 1051016



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

Zack marker strip - ZB 6,QR:FORTL.ZAHLEN - 1051029



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

Relay base - PLC-BPT- 5DC/1/SSI - 1094755

Accessories

Zack marker strip - ZB 6,LGS:GLEICHE ZAHLEN - 1051032



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: Identical numbers 1 or 2, etc. up to 100, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

Marker for terminal blocks - ZB 6,LGS:L1-N,PE - 1051414



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

Marker for terminal blocks - ZB 6,LGS:U-N - 1051430



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: U, V, W, N, GND, U, V, W, N, GND, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

Marker for terminal blocks - UC-TM 6 CUS - 0824589



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 80

Marker for terminal blocks - UCT-TM 6 CUS - 0829602



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 60

Partition plate

Relay base - PLC-BPT- 5DC/1/SSI - 1094755

Accessories

Separating plate - PLC-ATP BK - 2966841



Separating plate, 2 mm thick, required at the start and end of a PLC terminal strip. Furthermore, it is used for: visual separation of groups, safe isolation of different voltages of neighboring PLC relays in acc. with DIN VDE 0106-101, isolation

Power module

Power terminal block - PLC-ESK GY - 2966508



Power terminal block, for the input of up to four potentials, for mounting on NS 35/7.5

Screwdriver tools

Screwdriver - SZF 1-0,6X3,5 - 1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

Terminal marking

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

Relay base - PLC-BPT- 5DC/1/SSI - 1094755

Accessories

Marker for terminal blocks - UC-TM 6 - 0818085



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 80

Marker for terminal blocks - UCT-TM 6 - 0828736



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 60

Necessary add-on products

Single relay - REL-MR- 24DC/21 - 2961105



Plug-in miniature power relay, with power contact, 1 changeover contact, input voltage 24 V DC

Single relay - REL-MR- 24DC/21AU - 2961121



Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, input voltage 24 V DC

Single relay - REL-MR- 24DC/21/MS - 2909642



Plug-in miniature power relay, with power contact, 1 changeover contact, manual operation, 24 V DC input voltage

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Accessories

Miniature solid-state relay - OPT-24DC/ 48DC/100 - 2966618



Plug-in miniature solid-state relay, input solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 - 48 V DC/100 mA

Miniature solid-state relay - OPT-24DC/ 24DC/ 2 - 2966595



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 ... 33 V DC/3 A

Miniature solid-state relay - OPT-24DC/230AC/ 1 - 2967950



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 24 - 253 V AC/0.75 A

Relay base - PLC-BSC-24DC/1/SSI - 1094753


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6.2 mm PLC basic terminal block with screw connection, without relay or solid-state relay, internal amplifier circuit, and an appropriate auxiliary supply for weak signal sources, 24 V DC nominal input voltage



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
GTIN	 4 055626 921242
GTIN	4055626921242
Custom tariff number	85366990
Country of origin	Germany

Technical data

Note

Type of note	Notes on operation
Note	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
Type of note	Notes on operation
Note	The outputs are not suitable for switching different outer conductors with appropriate switching output (applies to the AC optocoupler variants and relays).
Type of note	Notes on operation
Note	The system installer must ensure the touch protection of the product (at voltages > 25 V AC/60 V DC). The product is a built-in device without protection against direct contact.
Type of note	Notes on operation

Relay base - PLC-BSC-24DC/1/SSI - 1094753

Technical data

Note

Note	At least one functional insulation against adjacent modules is complied with in the support rail direction. If the application has higher requirements on the insulation (basic or reinforced insulation), then these must be realized through suitable measures (e. g., partition plates).
Type of note	Notes on operation
Note	Do not use to separate SELV/PELV circuits from other circuits, because safe isolation is not guaranteed. (applies to the optocoupler variants)

Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Maximum altitude	≤ 2000 m
Degree of protection	IP20

Input data

Rated control circuit supply voltage U_S	24 V DC
Voltage range with reference to U_S	0.8 ... 1.2
Rated control supply current I_S	9 mA
Rated actuating current I_C	1 mA
Rated control circuit supply voltage U_S	24 V DC
Voltage range with reference to U_S	0.8 ... 1.2
Rated control supply current I_S	≥ 8 mA (depends on type)
Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	0.8 ... 1.2
Status display	Yellow LED
Surge voltage protection	> 33 V

Output data

Fitting of components	REL-MR-24DC/21
Contact type	Single contact, 1 N/O contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	on request

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Technical data

Output data

Min. switching current	10 mA
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity min.	120 mW
Fitting of components	REL-MR-24DC/21AU
Contact type	Single contact, 1 N/O contact
Contact material	AgSnO, hard gold-plated
Note	If the specified maximum values are exceeded, the gold plating is destroyed. The maximum values of the power contact relay are then valid. This can result in a shorter service life than with a pure power contact.
Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	100 mV
Limiting continuous current	50 mA
Maximum inrush current	50 mA
Min. switching current	1 mA
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
Switching capacity min.	100 µW
Fitting of components	REL-MR-24DC/21MS
Contact type	Single contact, 1 N/O contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	on request
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity min.	120 mW
Fitting of components	OPT-24DC/48DC/100

Relay base - PLC-BSC-24DC/1/SSI - 1094753

Technical data

Output data

Maximum switching voltage	48 V DC
Minimum switching voltage	3 V DC
Limiting continuous current	100 mA
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection
	Surge protection
Voltage drop at max. limiting continuous current	< 1 V
Fitting of components	OPT-24DC/24DC/2
Maximum switching voltage	33 V DC
Minimum switching voltage	3 V DC
Limiting continuous current	3 A
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection
	Surge protection
Voltage drop at max. limiting continuous current	< 200 mV
Fitting of components	OPT-24DC/230AC/1
Maximum switching voltage	253 V AC (Partition plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal points in adjacent modules. Potential bridging is then carried out with FBST 8-PLC... or ...FBST 500...)
Minimum switching voltage	24 V AC
Limiting continuous current	0.75 A
Maximum inrush current	30 A (10 ms)
Output circuit	2-conductor, floating
Protective circuit	RCV circuit
	Surge protection
Voltage drop at max. limiting continuous current	< 1 V
Leakage current	< 1 mA
Max. load value	4.5 A ² s

General

Operating mode	100% operating factor
Color	gray
Mounting position	any
Assembly instructions	in rows with zero spacing

Connection data

Connection name	Input side
Connection method	Screw connection

Relay base - PLC-BSC-24DC/1/SSI - 1094753

Technical data

Connection data

Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
	0.2 mm ² ... 2.5 mm ² (Single ferrule)
	2x 0.5 mm ² ... 1.5 mm ² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Connection data 2

Connection name	Output side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
	0.2 mm ² ... 2.5 mm ² (Single ferrule)
	2x 0.5 mm ² ... 1.5 mm ² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Standards and Regulations

Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Rated insulation voltage	250 V AC
Rated surge voltage	6 kV
Insulation	Safe isolation, reinforced insulation
Pollution degree	2
Overvoltage category	III

Conformance/approvals

Designation	Corrosive gas test
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Relay base - PLC-BSC-24DC/1/SSI - 1094753

Classifications

eCl@ss

eCl@ss 10.0.1	27371603
eCl@ss 11.0	27371603
eCl@ss 9.0	27371603

ETIM

ETIM 7.0	EC001456
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UNSPSC

UNSPSC 18.0	39122335
UNSPSC 19.0	39122335
UNSPSC 20.0	39122335
UNSPSC 21.0	39122335

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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EAC		RU*C- DE.*08.B.00010
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Relay base - PLC-BSC-24DC/1/SSI - 1094753

Approvals

EAC



RU D-DE.B*00573/18

cULus Recognized



Accessories

Necessary add-on products

Single relay - REL-MR- 24DC/21 - 2961105



Plug-in miniature power relay, with power contact, 1 changeover contact, input voltage 24 V DC

Single relay - REL-MR- 24DC/21AU - 2961121



Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, input voltage 24 V DC

Single relay - REL-MR- 24DC/21/MS - 2909642



Plug-in miniature power relay, with power contact, 1 changeover contact, manual operation, 24 V DC input voltage

Relay base - PLC-BSC-24DC/1/SSI - 1094753

Accessories

Miniature solid-state relay - OPT-24DC/ 48DC/100 - 2966618



Plug-in miniature solid-state relay, input solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 - 48 V DC/100 mA

Miniature solid-state relay - OPT-24DC/ 24DC/ 2 - 2966595



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 ... 33 V DC/3 A

Miniature solid-state relay - OPT-24DC/230AC/ 1 - 2967950



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 24 - 253 V AC/0.75 A

Relay Module - PLC-RSC- 5DC/1/SSI - 1094759


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PLC-INTERFACE, consisting of basic terminal block with screw connection and plug-in miniature relay with internal amplifier circuit and an appropriate auxiliary supply for weak signal sources, 1 N/O contact, 5 V DC nominal input voltage



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
GTIN	 4 055626 918891
GTIN	4055626918891
Weight per Piece (excluding packing)	36.000 g
Custom tariff number	85364190
Country of origin	Germany

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Relay Module - PLC-RSC- 5DC/1/SSI - 1094759

Technical data

Ambient conditions

Maximum altitude	≤ 2000 m
Degree of protection	IP20 (Relay base)
	≥ IP54 (Installation location)

Supply

Nominal supply voltage	24 V DC
Input current	9 mA

Coil side

Nominal input voltage U_N	5 V DC
Typical input current at U_N	1 mA
Typical response time	5 ms
Typical release time	7 ms
Protective circuit	Reverse polarity protection
	Surge protection
Operating voltage display	Yellow LED

Contact side

Contact type	1 N/O contact
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Min. switching current	10 mA
Maximum inrush current	on request
Limiting continuous current	6 A
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity min.	120 mW

General

Operating mode	100% operating factor
Mechanical service life	2×10^7 cycles
Mounting position	any
Assembly instructions	in rows with zero spacing

Relay Module - PLC-RSC- 5DC/1/SSI - 1094759

Technical data

Connection data

Connection name	Coil side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.14 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
	0.2 mm² ... 2.5 mm² (Single ferrule)
	2x 0.5 mm² ... 1.5 mm² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Connection data 2

Connection name	Contact side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.14 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
	0.2 mm² ... 2.5 mm² (Single ferrule)
	2x 0.5 mm² ... 1.5 mm² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Conformance/approvals

Designation	Corrosive gas test
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Relay Module - PLC-RSC- 5DC/1/SSI - 1094759

Circuit diagram



Articles in set

Relay base - PLC-BSC- 5DC/1/SSI - 1094751



6.2 mm PLC basic terminal block with screw connection, without relay or solid-state relay, internal amplifier circuit, and an appropriate auxiliary supply for weak signal sources, 5 V DC nominal input voltage

Single relay - REL-MR- 24DC/21 - 2961105



Plug-in miniature power relay, with power contact, 1 changeover contact, input voltage 24 V DC

Classifications

eCl@ss

eCl@ss 10.0.1	27371601
eCl@ss 11.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 7.0	EC001437
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UNSPSC

UNSPSC 18.0	39122334
UNSPSC 19.0	39122334
UNSPSC 20.0	39122334
UNSPSC 21.0	39122334

Relay Module - PLC-RSC- 5DC/1/SSI - 1094759

Approvals







Approvals

Approvals

UL Listed / UL Recognized / cUL Recognized / cUL Listed / EAC / EAC / cULus Recognized / cULus Listed

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
EAC			RU*C- DE.*08.B.00010
EAC			RU D-DE.B*00573/18
cULus Recognized			

Relay Module - PLC-RSC- 5DC/1/SSI - 1094759

Approvals

cULus Listed



Relay base - PLC-BSC- 5DC/1/SSI - 1094751

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6.2 mm PLC basic terminal block with screw connection, without relay or solid-state relay, internal amplifier circuit, and an appropriate auxiliary supply for weak signal sources, 5 V DC nominal input voltage



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
Custom tariff number	85366990
Country of origin	Germany

Technical data

Note

Type of note	Notes on operation
Note	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
Type of note	Notes on operation
Note	The outputs are not suitable for switching different outer conductors with appropriate switching output (applies to the AC optocoupler variants and relays).
Type of note	Notes on operation
Note	The system installer must ensure the touch protection of the product (at voltages > 25 V AC/60 V DC). The product is a built-in device without protection against direct contact.
Type of note	Notes on operation
Note	At least one functional insulation against adjacent modules is complied with in the support rail direction. If the application has higher requirements on the insulation (basic or reinforced insulation), then these must be realized through suitable measures (e. g., partition plates).

Relay base - PLC-BSC- 5DC/1/SSI - 1094751

Technical data

Note

Type of note	Notes on operation
Note	Do not use to separate SELV/PELV circuits from other circuits, because safe isolation is not guaranteed. (applies to the optocoupler variants)

Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Maximum altitude	≤ 2000 m
Degree of protection	IP20

Input data

Rated control circuit supply voltage U_S	24 V DC
Voltage range with reference to U_S	0.8 ... 1.2
Rated control supply current I_S	9 mA
Rated actuating current I_C	1 mA
Rated control circuit supply voltage U_S	24 V DC
Voltage range with reference to U_S	0.8 ... 1.2
Rated control supply current I_S	≥ 8 mA (depends on type)
Nominal input voltage U_N	5 V DC
Input voltage range in reference to U_N	0.9 ... 1.2
Status display	Yellow LED
Surge voltage protection	> 33 V

Output data

Fitting of components	REL-MR-24DC/21
Contact type	Single contact, 1 N/O contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	on request
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)

Relay base - PLC-BSC- 5DC/1/SSI - 1094751

Technical data

Output data

	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity min.	120 mW
Fitting of components	REL-MR-24DC/21AU
Contact type	Single contact, 1 N/O contact
Contact material	AgSnO, hard gold-plated
Note	If the specified maximum values are exceeded, the gold plating is destroyed. The maximum values of the power contact relay are then valid. This can result in a shorter service life than with a pure power contact.
Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	100 mV
Limiting continuous current	50 mA
Maximum inrush current	50 mA
Min. switching current	1 mA
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
Switching capacity min.	100 µW
Fitting of components	REL-MR-24DC/21MS
Contact type	Single contact, 1 N/O contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	on request
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity min.	120 mW
Fitting of components	OPT-24DC/48DC/100
Maximum switching voltage	48 V DC
Minimum switching voltage	3 V DC
Limiting continuous current	100 mA

Relay base - PLC-BSC- 5DC/1/SSI - 1094751

Technical data

Output data

Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection
	Surge protection
Voltage drop at max. limiting continuous current	< 1 V
Fitting of components	OPT-24DC/24DC/2
Maximum switching voltage	33 V DC
Minimum switching voltage	3 V DC
Limiting continuous current	3 A
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection
	Surge protection
Voltage drop at max. limiting continuous current	< 200 mV
Fitting of components	OPT-24DC/230AC/1
Maximum switching voltage	253 V AC (Partition plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal points in adjacent modules. Potential bridging is then carried out with FBST 8-PLC... or ...FBST 500...)
Minimum switching voltage	24 V AC
Limiting continuous current	0.75 A
Maximum inrush current	30 A (10 ms)
Output circuit	2-conductor, floating
Protective circuit	RCV circuit
	Surge protection
Voltage drop at max. limiting continuous current	< 1 V
Leakage current	< 1 mA
Max. load value	4.5 A ² s

General

Operating mode	100% operating factor
Color	gray
Mounting position	any
Assembly instructions	in rows with zero spacing

Connection data

Connection name	Input side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²

Relay base - PLC-BSC- 5DC/1/SSI - 1094751

Technical data

Connection data

Conductor cross section flexible	0.14 mm² ... 2.5 mm²
	0.2 mm² ... 2.5 mm² (Single ferrule)
	2x 0.5 mm² ... 1.5 mm² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Connection data 2

Connection name	Output side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.14 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
	0.2 mm² ... 2.5 mm² (Single ferrule)
	2x 0.5 mm² ... 1.5 mm² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Standards and Regulations

Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Rated insulation voltage	250 V AC
Rated surge voltage	6 kV
Insulation	Safe isolation, reinforced insulation
Pollution degree	2
Overvoltage category	III

Conformance/approvals

Designation	Corrosive gas test
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Classifications

eCl@ss

eCl@ss 10.0.1	27371603
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Relay base - PLC-BSC- 5DC/1/SSI - 1094751

Classifications

eCl@ss

eCl@ss 11.0	27371603
eCl@ss 9.0	27371603

ETIM

ETIM 7.0	EC001456
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UNSPSC

UNSPSC 18.0	39122335
UNSPSC 19.0	39122335
UNSPSC 20.0	39122335
UNSPSC 21.0	39122335

Approvals

Approvals

Approvals


UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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EAC		RU*C- DE.*08.B.00010
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Relay base - PLC-BSC- 5DC/1/SSI - 1094751

Approvals

EAC



RU D-DE.B*00573/18

cULus Recognized



Accessories

Necessary add-on products

Single relay - REL-MR- 24DC/21 - 2961105



Plug-in miniature power relay, with power contact, 1 changeover contact, input voltage 24 V DC

Single relay - REL-MR- 24DC/21AU - 2961121



Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, input voltage 24 V DC

Single relay - REL-MR- 24DC/21/MS - 2909642



Plug-in miniature power relay, with power contact, 1 changeover contact, manual operation, 24 V DC input voltage

Relay base - PLC-BSC- 5DC/1/SSI - 1094751

Accessories

Miniature solid-state relay - OPT-24DC/ 48DC/100 - 2966618



Plug-in miniature solid-state relay, input solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 - 48 V DC/100 mA

Miniature solid-state relay - OPT-24DC/ 24DC/ 2 - 2966595



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 ... 33 V DC/3 A

Miniature solid-state relay - OPT-24DC/230AC/ 1 - 2967950



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 24 - 253 V AC/0.75 A

Relay base - PLC-BPT-24DC/1/SSI - 1094758

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6.2 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, internal amplifier circuit, and an appropriate auxiliary supply for weak signal sources, 24 V DC nominal input voltage



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
Custom tariff number	85366990
Country of origin	Germany

Technical data

Note

Type of note	Notes on operation
Note	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
Type of note	Notes on operation
Note	The outputs are not suitable for switching different outer conductors with appropriate switching output (applies to the AC optocoupler variants and relays).
Type of note	Notes on operation
Note	The system installer must ensure the touch protection of the product (at voltages > 25 V AC/60 V DC). The product is a built-in device without protection against direct contact.
Type of note	Notes on operation
Note	At least one functional insulation against adjacent modules is complied with in the support rail direction. If the application has higher requirements on the insulation (basic or reinforced insulation), then these must be realized through suitable measures (e. g., partition plates).

Relay base - PLC-BPT-24DC/1/SSI - 1094758

Technical data

Note

Type of note	Notes on operation
Note	Do not use to separate SELV/PELV circuits from other circuits, because safe isolation is not guaranteed. (applies to the optocoupler variants)

Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Maximum altitude	≤ 2000 m
Degree of protection	IP20

Input data

Rated control circuit supply voltage U_S	24 V DC
Voltage range with reference to U_S	0.8 ... 1.2
Rated control supply current I_S	9 mA
Rated actuating current I_C	1 mA
Rated control circuit supply voltage U_S	24 V DC
Voltage range with reference to U_S	0.8 ... 1.2
Rated control supply current I_S	≥ 8 mA (depends on type)
Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	0.8 ... 1.2
Status display	Yellow LED
Surge voltage protection	> 33 V

Output data

Fitting of components	REL-MR-24DC/21
Contact type	Single contact, 1 N/O contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	on request
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)

Relay base - PLC-BPT-24DC/1/SSI - 1094758

Technical data

Output data

	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity min.	120 mW
Fitting of components	REL-MR-24DC/21AU
Contact type	Single contact, 1 N/O contact
Contact material	AgSnO, hard gold-plated
Note	If the specified maximum values are exceeded, the gold plating is destroyed. The maximum values of the power contact relay are then valid. This can result in a shorter service life than with a pure power contact.
Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	100 mV
Limiting continuous current	50 mA
Maximum inrush current	50 mA
Min. switching current	1 mA
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
Switching capacity min.	100 µW
Fitting of components	REL-MR-24DC/21MS
Contact type	Single contact, 1 N/O contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	on request
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity min.	120 mW
Fitting of components	OPT-24DC/48DC/100
Maximum switching voltage	48 V DC
Minimum switching voltage	3 V DC
Limiting continuous current	100 mA

Relay base - PLC-BPT-24DC/1/SSI - 1094758

Technical data

Output data

Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection
	Surge protection
Voltage drop at max. limiting continuous current	< 1 V
Fitting of components	OPT-24DC/24DC/2
Maximum switching voltage	33 V DC
Minimum switching voltage	3 V DC
Limiting continuous current	3 A
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection
	Surge protection
Voltage drop at max. limiting continuous current	< 200 mV
Fitting of components	OPT-24DC/230AC/1
Maximum switching voltage	253 V AC (Partition plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal points in adjacent modules. Potential bridging is then carried out with FBST 8-PLC... or ...FBST 500...)
Minimum switching voltage	24 V AC
Limiting continuous current	0.75 A
Maximum inrush current	30 A (10 ms)
Output circuit	2-conductor, floating
Protective circuit	RCV circuit
	Surge protection
Voltage drop at max. limiting continuous current	< 1 V
Leakage current	< 1 mA
Max. load value	4.5 A ² s

General

Operating mode	100% operating factor
Color	gray
Mounting position	any
Assembly instructions	in rows with zero spacing

Connection data

Connection name	Input side
Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²

Relay base - PLC-BPT-24DC/1/SSI - 1094758

Technical data

Connection data

	0.2 mm² ... 2.5 mm² (Single ferrule)
	2x 0.5 mm² ... 1 mm² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Connection data 2

Connection name	Output side
Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section solid	0.14 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
	0.2 mm² ... 2.5 mm² (Single ferrule)
	2x 0.5 mm² ... 1 mm² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Standards and Regulations

Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Rated insulation voltage	250 V AC
Rated surge voltage	6 kV
Insulation	Safe isolation, reinforced insulation
Pollution degree	2
Overvoltage category	III

Conformance/approvals

Designation	Corrosive gas test
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Classifications

eCl@ss

eCl@ss 10.0.1	27371603
eCl@ss 11.0	27371603
eCl@ss 9.0	27371603

Relay base - PLC-BPT-24DC/1/SSI - 1094758

Classifications

ETIM

ETIM 7.0	EC001456
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UNSPSC

UNSPSC 18.0	39122335
UNSPSC 19.0	39122335
UNSPSC 20.0	39122335
UNSPSC 21.0	39122335

Approvals

Approvals

Approvals


UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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EAC		RU*C- DE.*08.B.00010
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EAC		RU D-DE.B*00573/18
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Relay base - PLC-BPT-24DC/1/SSI - 1094758

Approvals

cULus Recognized



Accessories

Necessary add-on products

Single relay - REL-MR- 24DC/21 - 2961105



Plug-in miniature power relay, with power contact, 1 changeover contact, input voltage 24 V DC

Single relay - REL-MR- 24DC/21AU - 2961121



Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, input voltage 24 V DC

Single relay - REL-MR- 24DC/21/MS - 2909642



Plug-in miniature power relay, with power contact, 1 changeover contact, manual operation, 24 V DC input voltage

Miniature solid-state relay - OPT-24DC/ 48DC/100 - 2966618



Plug-in miniature solid-state relay, input solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 - 48 V DC/100 mA

Relay base - PLC-BPT-24DC/1/SSI - 1094758

Accessories

Miniature solid-state relay - OPT-24DC/ 24DC/ 2 - 2966595



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 ... 33 V DC/3 A

Miniature solid-state relay - OPT-24DC/230AC/ 1 - 2967950



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 24 - 253 V AC/0.75 A

Relay Module - PLC-RSC-24DC/1/SSI - 1094761


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PLC-INTERFACE, consisting of basic terminal block with screw connection and plug-in miniature relay with internal amplifier circuit and an appropriate auxiliary supply for weak signal sources, 1 N/O contact, 24 V DC nominal input voltage



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
GTIN	 4 055626 918938
GTIN	4055626918938
Weight per Piece (excluding packing)	36.000 g
Custom tariff number	85364190
Country of origin	Germany

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Relay Module - PLC-RSC-24DC/1/SSI - 1094761

Technical data

Ambient conditions

Maximum altitude	≤ 2000 m
Degree of protection	IP20 (Relay base)
	≥ IP54 (Installation location)

Supply

Nominal supply voltage	24 V DC
Input current	9 mA

Coil side

Nominal input voltage U_N	24 V DC
Typical input current at U_N	1 mA
Typical response time	5 ms
Typical release time	7 ms
Protective circuit	Reverse polarity protection
	Surge protection
Operating voltage display	Yellow LED

Contact side

Contact type	1 N/O contact
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Min. switching current	10 mA
Maximum inrush current	on request
Limiting continuous current	6 A
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity min.	120 mW

General

Operating mode	100% operating factor
Mechanical service life	2×10^7 cycles
Mounting position	any
Assembly instructions	in rows with zero spacing

Relay Module - PLC-RSC-24DC/1/SSI - 1094761

Technical data

Connection data

Connection name	Coil side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.14 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
	0.2 mm² ... 2.5 mm² (Single ferrule)
	2x 0.5 mm² ... 1.5 mm² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Connection data 2

Connection name	Contact side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.14 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
	0.2 mm² ... 2.5 mm² (Single ferrule)
	2x 0.5 mm² ... 1.5 mm² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Conformance/approvals

Designation	Corrosive gas test
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Relay Module - PLC-RSC-24DC/1/SSI - 1094761

Circuit diagram



Articles in set

Relay base - PLC-BSC-24DC/1/SSI - 1094753



6.2 mm PLC basic terminal block with screw connection, without relay or solid-state relay, internal amplifier circuit, and an appropriate auxiliary supply for weak signal sources, 24 V DC nominal input voltage

Classifications

eCl@ss

eCl@ss 10.0.1	27371601
eCl@ss 11.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 7.0	EC001437
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UNSPSC

UNSPSC 18.0	39122334
UNSPSC 19.0	39122334
UNSPSC 20.0	39122334
UNSPSC 21.0	39122334

Approvals

Approvals

Approvals









UL Listed / UL Recognized / cUL Recognized / cUL Listed / EAC / EAC / cULus Recognized / cULus Listed

Relay Module - PLC-RSC-24DC/1/SSI - 1094761

Approvals

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
EAC			RU*C- DE.*08.B.00010
EAC			RU D-DE.B*00573/18
cULus Recognized			
cULus Listed			

Relay Module - PLC-RPT- 5DC/1/SSI - 1094764


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PLC-INTERFACE, consisting of basic terminal block with Push-in connection and plug-in miniature relay with internal amplifier circuit and an appropriate auxiliary supply for weak signal sources, 1 N/O contact, 5 V DC nominal input voltage



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
GTIN	 4 055626 921334
GTIN	4055626921334
Custom tariff number	85364190
Country of origin	Germany

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Maximum altitude	≤ 2000 m

Relay Module - PLC-RPT- 5DC/1/SSI - 1094764

Technical data

Ambient conditions

Degree of protection	IP20 (Relay base)
	≥ IP54 (Installation location)

Supply

Nominal supply voltage	24 V DC
Input current	9 mA

Coil side

Nominal input voltage U_N	5 V DC
Typical input current at U_N	1 mA
Typical response time	5 ms
Typical release time	7 ms
Protective circuit	Surge protection
Operating voltage display	Yellow LED

Contact side

Contact type	1 N/O contact
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Min. switching current	10 mA
Maximum inrush current	on request
Limiting continuous current	6 A
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity min.	120 mW

General

Operating mode	100% operating factor
Mechanical service life	2×10^7 cycles
Mounting position	any
Assembly instructions	in rows with zero spacing

Connection data

Connection name	Coil side
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Relay Module - PLC-RPT- 5DC/1/SSI - 1094764

Technical data

Connection data

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
	0.2 mm ² ... 2.5 mm ² (Single ferrule)
	2x 0.5 mm ² ... 1 mm ² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Connection data 2

Connection name	Contact side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
	0.2 mm ² ... 2.5 mm ² (Single ferrule)
	2x 0.5 mm ² ... 1 mm ² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Conformance/approvals

Designation	Corrosive gas test
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Circuit diagram



Relay Module - PLC-RPT- 5DC/1/SSI - 1094764

Articles in set

Relay base - PLC-BPT- 5DC/1/SSI - 1094755



6.2 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, internal amplifier circuit, and an appropriate auxiliary supply for weak signal sources, 5 V DC nominal input voltage

Single relay - REL-MR- 24DC/21 - 2961105



Plug-in miniature power relay, with power contact, 1 changeover contact, input voltage 24 V DC

Classifications

eCl@ss

eCl@ss 10.0.1	27371601
eCl@ss 11.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 7.0	EC001437
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UNSPSC

UNSPSC 18.0	39122334
UNSPSC 19.0	39122334
UNSPSC 20.0	39122334
UNSPSC 21.0	39122334

Approvals

Approvals

Approvals









UL Listed / UL Recognized / cUL Recognized / cUL Listed / EAC / EAC / cULus Recognized / cULus Listed

Relay Module - PLC-RPT- 5DC/1/SSI - 1094764

Approvals

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
EAC			RU*C- DE.*08.B.00010
EAC			RU D-DE.B*00573/18
cULus Recognized			
cULus Listed			

Relay base - PLC-BPT-12DC/1/SSI - 1094757

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6.2 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, internal amplifier circuit, and an appropriate auxiliary supply for weak signal sources, 12 V DC nominal input voltage



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
Custom tariff number	85366990
Country of origin	Germany

Technical data

Note

Type of note	Notes on operation
Note	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
Type of note	Notes on operation
Note	The outputs are not suitable for switching different outer conductors with appropriate switching output (applies to the AC optocoupler variants and relays).
Type of note	Notes on operation
Note	The system installer must ensure the touch protection of the product (at voltages > 25 V AC/60 V DC). The product is a built-in device without protection against direct contact.
Type of note	Notes on operation
Note	At least one functional insulation against adjacent modules is complied with in the support rail direction. If the application has higher requirements on the insulation (basic or reinforced insulation), then these must be realized through suitable measures (e. g., partition plates).

Relay base - PLC-BPT-12DC/1/SSI - 1094757

Technical data

Note

Type of note	Notes on operation
Note	Do not use to separate SELV/PELV circuits from other circuits, because safe isolation is not guaranteed. (applies to the optocoupler variants)

Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Maximum altitude	≤ 2000 m
Degree of protection	IP20

Input data

Rated control circuit supply voltage U_S	24 V DC
Voltage range with reference to U_S	0.8 ... 1.2
Rated control supply current I_S	9 mA
Rated actuating current I_C	1 mA
Rated control circuit supply voltage U_S	24 V DC
Voltage range with reference to U_S	0.8 ... 1.2
Rated control supply current I_S	≥ 8 mA (depends on type)
Nominal input voltage U_N	12 V DC
Input voltage range in reference to U_N	0.8 ... 1.2
Status display	Yellow LED
Surge voltage protection	> 33 V

Output data

Fitting of components	REL-MR-24DC/21
Contact type	Single contact, 1 N/O contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	on request
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)

Relay base - PLC-BPT-12DC/1/SSI - 1094757

Technical data

Output data

	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity min.	120 mW
Fitting of components	REL-MR-24DC/21AU
Contact type	Single contact, 1 N/O contact
Contact material	AgSnO, hard gold-plated
Note	If the specified maximum values are exceeded, the gold plating is destroyed. The maximum values of the power contact relay are then valid. This can result in a shorter service life than with a pure power contact.
Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	100 mV
Limiting continuous current	50 mA
Maximum inrush current	50 mA
Min. switching current	1 mA
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
Switching capacity min.	100 µW
Fitting of components	REL-MR-24DC/21MS
Contact type	Single contact, 1 N/O contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	on request
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity min.	120 mW
Fitting of components	OPT-24DC/48DC/100
Maximum switching voltage	48 V DC
Minimum switching voltage	3 V DC
Limiting continuous current	100 mA

Relay base - PLC-BPT-12DC/1/SSI - 1094757

Technical data

Output data

Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection
	Surge protection
Voltage drop at max. limiting continuous current	< 1 V
Fitting of components	OPT-24DC/24DC/2
Maximum switching voltage	33 V DC
Minimum switching voltage	3 V DC
Limiting continuous current	3 A
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection
	Surge protection
Voltage drop at max. limiting continuous current	< 200 mV
Fitting of components	OPT-24DC/230AC/1
Maximum switching voltage	253 V AC (Partition plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal points in adjacent modules. Potential bridging is then carried out with FBST 8-PLC... or ...FBST 500...)
Minimum switching voltage	24 V AC
Limiting continuous current	0.75 A
Maximum inrush current	30 A (10 ms)
Output circuit	2-conductor, floating
Protective circuit	RCV circuit
	Surge protection
Voltage drop at max. limiting continuous current	< 1 V
Leakage current	< 1 mA
Max. load value	4.5 A ² s

General

Operating mode	100% operating factor
Color	gray
Mounting position	any
Assembly instructions	in rows with zero spacing

Connection data

Connection name	Input side
Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²

Relay base - PLC-BPT-12DC/1/SSI - 1094757

Technical data

Connection data

	0.2 mm² ... 2.5 mm² (Single ferrule)
	2x 0.5 mm² ... 1 mm² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Connection data 2

Connection name	Output side
Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section solid	0.14 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
	0.2 mm² ... 2.5 mm² (Single ferrule)
	2x 0.5 mm² ... 1 mm² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Standards and Regulations

Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Rated insulation voltage	250 V AC
Rated surge voltage	6 kV
Insulation	Safe isolation, reinforced insulation
Pollution degree	2
Overvoltage category	III

Conformance/approvals

Designation	Corrosive gas test
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Classifications

eCl@ss

eCl@ss 10.0.1	27371603
eCl@ss 11.0	27371603
eCl@ss 9.0	27371603

Relay base - PLC-BPT-12DC/1/SSI - 1094757

Classifications

ETIM

ETIM 7.0	EC001456
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UNSPSC

UNSPSC 18.0	39122335
UNSPSC 19.0	39122335
UNSPSC 20.0	39122335
UNSPSC 21.0	39122335

Approvals

Approvals

Approvals


UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized


Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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EAC		RU*C- DE.*08.B.00010
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EAC		RU D-DE.B*00573/18
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Relay base - PLC-BPT-12DC/1/SSI - 1094757

Approvals

cULus Recognized



Accessories

Necessary add-on products

Single relay - REL-MR- 24DC/21 - 2961105



Plug-in miniature power relay, with power contact, 1 changeover contact, input voltage 24 V DC

Single relay - REL-MR- 24DC/21AU - 2961121



Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, input voltage 24 V DC

Single relay - REL-MR- 24DC/21/MS - 2909642



Plug-in miniature power relay, with power contact, 1 changeover contact, manual operation, 24 V DC input voltage

Miniature solid-state relay - OPT-24DC/ 48DC/100 - 2966618



Plug-in miniature solid-state relay, input solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 - 48 V DC/100 mA

Relay base - PLC-BPT-12DC/1/SSI - 1094757

Accessories

Miniature solid-state relay - OPT-24DC/ 24DC/ 2 - 2966595



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 ... 33 V DC/3 A

Miniature solid-state relay - OPT-24DC/230AC/ 1 - 2967950



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 24 - 253 V AC/0.75 A

Relay Module - PLC-RPT-24DC/1/SSI - 1094767


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PLC-INTERFACE, consisting of basic terminal block with Push-in connection and plug-in miniature relay with internal amplifier circuit and an appropriate auxiliary supply for weak signal sources, 1 N/O contact, 24 V DC nominal input voltage



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
GTIN	 4 055626 921600
GTIN	4055626921600
Custom tariff number	85364190
Country of origin	Germany

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Maximum altitude	≤ 2000 m

Relay Module - PLC-RPT-24DC/1/SSI - 1094767

Technical data

Ambient conditions

Degree of protection	IP20 (Relay base)
	≥ IP54 (Installation location)

Supply

Nominal supply voltage	24 V DC
Input current	9 mA

Coil side

Nominal input voltage U_N	24 V DC
Typical input current at U_N	1 mA
Typical response time	5 ms
Typical release time	7 ms
Protective circuit	Surge protection
Operating voltage display	Yellow LED

Contact side

Contact type	1 N/O contact
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Min. switching current	10 mA
Maximum inrush current	on request
Limiting continuous current	6 A
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity min.	120 mW

General

Operating mode	100% operating factor
Mechanical service life	2×10^7 cycles

Connection data

Connection name	Coil side
Connection method	Push-in connection
Stripping length	8 mm

Relay Module - PLC-RPT-24DC/1/SSI - 1094767

Technical data

Connection data

Conductor cross section solid	0.14 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
	0.2 mm² ... 2.5 mm² (Single ferrule)
	2x 0.5 mm² ... 1 mm² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Connection data 2

Connection name	Contact side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
	0.2 mm² ... 2.5 mm² (Single ferrule)
	2x 0.5 mm² ... 1 mm² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Conformance/approvals

Designation	Corrosive gas test
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Circuit diagram



Relay Module - PLC-RPT-24DC/1/SSI - 1094767

Articles in set

Relay base - PLC-BPT-24DC/1/SSI - 1094758



6.2 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, internal amplifier circuit, and an appropriate auxiliary supply for weak signal sources, 24 V DC nominal input voltage

Classifications

eCl@ss

eCl@ss 10.0.1	27371601
eCl@ss 11.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 7.0	EC001437
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UNSPSC

UNSPSC 18.0	39122334
UNSPSC 19.0	39122334
UNSPSC 20.0	39122334
UNSPSC 21.0	39122334

Approvals

Approvals

Approvals

UL Listed / UL Recognized / cUL Recognized / cUL Listed / EAC / EAC / cULus Recognized / cULus Listed

Ex Approvals

Approval details

UL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 172140

Relay Module - PLC-RPT-24DC/1/SSI - 1094767

Approvals

UL Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 238705

cUL Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 238705

cUL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 172140

EAC



RU*C-
DE.*08.B.00010

EAC



RU D-DE.B*00573/18

cULus Recognized



cULus Listed



Relay Module - PLC-RSC-12DC/1/SSI - 1094760


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PLC-INTERFACE, consisting of basic terminal block with screw connection and plug-in miniature relay with internal amplifier circuit and an appropriate auxiliary supply for weak signal sources, 1 N/O contact, 12 V DC nominal input voltage



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
GTIN	 4 055626 921501
GTIN	4055626921501
Custom tariff number	85364190
Country of origin	Germany

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Maximum altitude	≤ 2000 m

Relay Module - PLC-RSC-12DC/1/SSI - 1094760

Technical data

Ambient conditions

Degree of protection	IP20 (Relay base)
	≥ IP54 (Installation location)

Supply

Nominal supply voltage	24 V DC
Input current	9 mA

Coil side

Nominal input voltage U_N	12 V DC
Typical input current at U_N	1 mA
Typical response time	5 ms
Typical release time	7 ms
Protective circuit	Reverse polarity protection
	Surge protection
Operating voltage display	Yellow LED

Contact side

Contact type	1 N/O contact
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Min. switching current	10 mA
Maximum inrush current	on request
Limiting continuous current	6 A
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity min.	120 mW

General

Operating mode	100% operating factor
Mechanical service life	2×10^7 cycles
Mounting position	any
Assembly instructions	in rows with zero spacing

Connection data

Relay Module - PLC-RSC-12DC/1/SSI - 1094760

Technical data

Connection data

Connection name	Coil side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
	0.2 mm ² ... 2.5 mm ² (Single ferrule)
	2x 0.5 mm ² ... 1.5 mm ² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Connection data 2

Connection name	Contact side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
	0.2 mm ² ... 2.5 mm ² (Single ferrule)
	2x 0.5 mm ² ... 1.5 mm ² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Conformance/approvals

Designation	Corrosive gas test
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Relay Module - PLC-RSC-12DC/1/SSI - 1094760

Circuit diagram



Articles in set

Relay base - PLC-BSC-12DC/1/SSI - 1094752



6.2 mm PLC basic terminal block with screw connection, without relay or solid-state relay, internal amplifier circuit, and an appropriate auxiliary supply for weak signal sources, 12 V DC nominal input voltage

Single relay - REL-MR- 24DC/21 - 2961105



Plug-in miniature power relay, with power contact, 1 changeover contact, input voltage 24 V DC

Classifications

eCl@ss

eCl@ss 10.0.1	27371601
eCl@ss 11.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 7.0	EC001437
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UNSPSC

UNSPSC 18.0	39122334
UNSPSC 19.0	39122334
UNSPSC 20.0	39122334
UNSPSC 21.0	39122334

Relay Module - PLC-RSC-12DC/1/SSI - 1094760

Approvals





Approvals

Approvals

UL Listed / UL Recognized / cUL Recognized / cUL Listed / EAC / EAC / cULus Recognized / cULus Listed

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
EAC			RU*C- DE.*08.B.00010
EAC			RU D-DE.B*00573/18
cULus Recognized			

Relay Module - PLC-RSC-12DC/1/SSI - 1094760

Approvals

cULus Listed



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Relay base - PLC-BSC-12DC/1/SSI - 1094752

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6.2 mm PLC basic terminal block with screw connection, without relay or solid-state relay, internal amplifier circuit, and an appropriate auxiliary supply for weak signal sources, 12 V DC nominal input voltage



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
Custom tariff number	85366990
Country of origin	Germany

Technical data

Note

Type of note	Notes on operation
Note	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
Type of note	Notes on operation
Note	The outputs are not suitable for switching different outer conductors with appropriate switching output (applies to the AC optocoupler variants and relays).
Type of note	Notes on operation
Note	The system installer must ensure the touch protection of the product (at voltages > 25 V AC/60 V DC). The product is a built-in device without protection against direct contact.
Type of note	Notes on operation
Note	At least one functional insulation against adjacent modules is complied with in the support rail direction. If the application has higher requirements on the insulation (basic or reinforced insulation), then these must be realized through suitable measures (e. g., partition plates).

Relay base - PLC-BSC-12DC/1/SSI - 1094752

Technical data

Note

Type of note	Notes on operation
Note	Do not use to separate SELV/PELV circuits from other circuits, because safe isolation is not guaranteed. (applies to the optocoupler variants)

Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Maximum altitude	≤ 2000 m
Degree of protection	IP20

Input data

Rated control circuit supply voltage U_S	24 V DC
Voltage range with reference to U_S	0.8 ... 1.2
Rated control supply current I_S	9 mA
Rated actuating current I_C	1 mA
Rated control circuit supply voltage U_S	24 V DC
Voltage range with reference to U_S	0.8 ... 1.2
Rated control supply current I_S	≥ 8 mA (depends on type)
Nominal input voltage U_N	12 V DC
Input voltage range in reference to U_N	0.8 ... 1.2
Status display	Yellow LED
Surge voltage protection	> 33 V

Output data

Fitting of components	REL-MR-24DC/21
Contact type	Single contact, 1 N/O contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	on request
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)

Relay base - PLC-BSC-12DC/1/SSI - 1094752

Technical data

Output data

	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity min.	120 mW
Fitting of components	REL-MR-24DC/21AU
Contact type	Single contact, 1 N/O contact
Contact material	AgSnO, hard gold-plated
Note	If the specified maximum values are exceeded, the gold plating is destroyed. The maximum values of the power contact relay are then valid. This can result in a shorter service life than with a pure power contact.
Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	100 mV
Limiting continuous current	50 mA
Maximum inrush current	50 mA
Min. switching current	1 mA
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
Switching capacity min.	100 µW
Fitting of components	REL-MR-24DC/21MS
Contact type	Single contact, 1 N/O contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	on request
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity min.	120 mW
Fitting of components	OPT-24DC/48DC/100
Maximum switching voltage	48 V DC
Minimum switching voltage	3 V DC
Limiting continuous current	100 mA

Relay base - PLC-BSC-12DC/1/SSI - 1094752

Technical data

Output data

Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection
	Surge protection
Voltage drop at max. limiting continuous current	< 1 V
Fitting of components	OPT-24DC/24DC/2
Maximum switching voltage	33 V DC
Minimum switching voltage	3 V DC
Limiting continuous current	3 A
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection
	Surge protection
Voltage drop at max. limiting continuous current	< 200 mV
Fitting of components	OPT-24DC/230AC/1
Maximum switching voltage	253 V AC (Partition plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal points in adjacent modules. Potential bridging is then carried out with FBST 8-PLC... or ...FBST 500...)
Minimum switching voltage	24 V AC
Limiting continuous current	0.75 A
Maximum inrush current	30 A (10 ms)
Output circuit	2-conductor, floating
Protective circuit	RCV circuit
	Surge protection
Voltage drop at max. limiting continuous current	< 1 V
Leakage current	< 1 mA
Max. load value	4.5 A ² s

General

Operating mode	100% operating factor
Color	gray
Mounting position	any
Assembly instructions	in rows with zero spacing

Connection data

Connection name	Input side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²

Relay base - PLC-BSC-12DC/1/SSI - 1094752

Technical data

Connection data

Conductor cross section flexible	0.14 mm² ... 2.5 mm²
	0.2 mm² ... 2.5 mm² (Single ferrule)
	2x 0.5 mm² ... 1.5 mm² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Connection data 2

Connection name	Output side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.14 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
	0.2 mm² ... 2.5 mm² (Single ferrule)
	2x 0.5 mm² ... 1.5 mm² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Standards and Regulations

Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Rated insulation voltage	250 V AC
Rated surge voltage	6 kV
Insulation	Safe isolation, reinforced insulation
Pollution degree	2
Overvoltage category	III

Conformance/approvals

Designation	Corrosive gas test
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Classifications

eCl@ss

eCl@ss 10.0.1	27371603
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Relay base - PLC-BSC-12DC/1/SSI - 1094752

Classifications

eCl@ss

eCl@ss 11.0	27371603
eCl@ss 9.0	27371603

ETIM

ETIM 7.0	EC001456
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UNSPSC

UNSPSC 18.0	39122335
UNSPSC 19.0	39122335
UNSPSC 20.0	39122335
UNSPSC 21.0	39122335

Approvals

Approvals

Approvals


UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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EAC		RU*C- DE.*08.B.00010
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Relay base - PLC-BSC-12DC/1/SSI - 1094752

Approvals

EAC



RU D-DE.B*00573/18

cULus Recognized



Accessories

Necessary add-on products

Single relay - REL-MR- 24DC/21 - 2961105



Plug-in miniature power relay, with power contact, 1 changeover contact, input voltage 24 V DC

Single relay - REL-MR- 24DC/21AU - 2961121



Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, input voltage 24 V DC

Single relay - REL-MR- 24DC/21/MS - 2909642



Plug-in miniature power relay, with power contact, 1 changeover contact, manual operation, 24 V DC input voltage

Relay base - PLC-BSC-12DC/1/SSI - 1094752

Accessories

Miniature solid-state relay - OPT-24DC/ 48DC/100 - 2966618



Plug-in miniature solid-state relay, input solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 - 48 V DC/100 mA

Miniature solid-state relay - OPT-24DC/ 24DC/ 2 - 2966595



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 ... 33 V DC/3 A

Miniature solid-state relay - OPT-24DC/230AC/ 1 - 2967950



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 24 - 253 V AC/0.75 A

Relay Module - PLC-RPT-12DC/1/SSI - 1094765


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PLC-INTERFACE, consisting of basic terminal block with Push-in connection and plug-in miniature relay with internal amplifier circuit and an appropriate auxiliary supply for weak signal sources, 1 N/O contact, 12 V DC nominal input voltage



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
GTIN	 4 055626 918945
GTIN	4055626918945
Custom tariff number	85364190
Country of origin	Germany

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Maximum altitude	≤ 2000 m

Relay Module - PLC-RPT-12DC/1/SSI - 1094765

Technical data

Ambient conditions

Degree of protection	IP20 (Relay base)
	≥ IP54 (Installation location)

Supply

Nominal supply voltage	24 V DC
Input current	9 mA

Coil side

Nominal input voltage U_N	12 V DC
Typical input current at U_N	1 mA
Typical response time	5 ms
Typical release time	7 ms
Protective circuit	Surge protection
Operating voltage display	Yellow LED

Contact side

Contact type	1 N/O contact
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Min. switching current	10 mA
Maximum inrush current	on request
Limiting continuous current	6 A
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity min.	120 mW

General

Operating mode	100% operating factor
Mechanical service life	2×10^7 cycles

Connection data

Connection name	Coil side
Connection method	Push-in connection
Stripping length	8 mm

Relay Module - PLC-RPT-12DC/1/SSI - 1094765

Technical data

Connection data

Conductor cross section solid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
	0.2 mm ² ... 2.5 mm ² (Single ferrule)
	2x 0.5 mm ² ... 1 mm ² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Connection data 2

Connection name	Contact side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
	0.2 mm ² ... 2.5 mm ² (Single ferrule)
	2x 0.5 mm ² ... 1 mm ² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Conformance/approvals

Designation	Corrosive gas test
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Circuit diagram



Relay Module - PLC-RPT-12DC/1/SSI - 1094765

Articles in set

Relay base - PLC-BPT-12DC/1/SSI - 1094757



6.2 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, internal amplifier circuit, and an appropriate auxiliary supply for weak signal sources, 12 V DC nominal input voltage

Single relay - REL-MR- 24DC/21 - 2961105



Plug-in miniature power relay, with power contact, 1 changeover contact, input voltage 24 V DC

Classifications

eCl@ss

eCl@ss 10.0.1	27371601
eCl@ss 11.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 7.0	EC001437
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UNSPSC

UNSPSC 18.0	39122334
UNSPSC 19.0	39122334
UNSPSC 20.0	39122334
UNSPSC 21.0	39122334

Approvals

Approvals

Approvals








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Relay Module - PLC-RPT-12DC/1/SSI - 1094765

Approvals

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
EAC			RU*C- DE.*08.B.00010
EAC			RU D-DE.B*00573/18
cULus Recognized			
cULus Listed	