PLC-RPT- 24DC/1/CB1-6 - Relay module

1328360

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Combination of relay interface and electronic fuse protection on overall width: 6.2 mm, individual configuration of the nominal current (1 A ... 6 A), adjustable output characteristic, active signal output, easy system integration, with Push-in connection

Commercial data

Item number	1328360
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CK6
Product key	CK62AF
GTIN	4063151621940
Weight per piece (including packing)	40.2 g
Weight per piece (excluding packing)	40.2 g
Customs tariff number	85364190
Country of origin	DE

Technical data

Notes

Notes on operation	Repeated hard short circuits can reduce the melting integral of the integrated backup fuse.
Notes on operation	A suitable flyback diode must be used when switching inductive loads
Notes on operation	If the DIP switches are not covered by an adjacent module, the PLC-ATP partition plate must be used for ESD protection
Notes on operation	The device contains components that can be damaged or destroyed by electrostatic discharge. When handling the device, observe the necessary safety precautions against electrostatic discharge (ESD) according to EN 61340-5-1 and EN 61340-5-2.
Notes on operation	The PLC-ATP separating plate should be installed for safe isolation between adjacent modules
Notes on operation	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
Notes on operation	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).
Notes on operation	Do not use to separate SELV / PELV circuits from other circuits, because safe isolation is not guaranteed.

Product properties

Product type	Relay Module
Product family	PLC-INTERFACE
Application	with integrated electronic circuit breaker
Operating mode	100% operating factor

Data management status

Article revision	02

Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	I
Pollution degree	2

Electrical properties

Maximum power dissipation for nominal condition	< 1.6 W
Fuse	electronic

Input data

Operating voltage (U_N)	24 V DC (U_{In+} - U_{A2})
Operating voltage range (DC)	19.2 V DC ... 30 V DC (U_{In+} - U_{A2})
Current consumption (In+)	12 mA
	1 A (adjustable)

Tripping current (I_N)	2 A (adjustable)
	3 A (adjustable)
	4 A (adjustable)
	5 A (adjustable)
	6 A (preset)
Measuring tolerance	± 15 %
Power dissipation	0.06 W (Without load, A1 low)
	0.4 W (Without load, A1 high)
	< 1.6 W (Normal operation)

Switching: Switching input A1

Nominal switch-on voltage	24 V (U_{A1} - U_{A2})
Switch-on voltage range	11 V ... 30 V (U_{A1} - U_{A2})
Switch-off voltage range	0 V ... 2 V (U_{A1} - U_{A2})
Current consumption (I_{A1})	4 mA (24 V)
Switch-on time	36 ms
Switch-off time	10 ms
Switching frequency	≤ 2.5 Hz

Output data

Load circuit: Power MOSFET switching output (positive switching)

Voltage drop	0.16 V (6 A, U_{In+} - U_{out})
Short-circuit switching capacity	100 A DC
	300 A DC (<5 short circuits)
Required backup fuse	Only required if I_{max} of power supply unit > short-circuit switching capacity. Integrated failsafe element
Fail-safe element	15 A
Surge voltage protection	> 33 V
Max. capacitive load	12000 µF (Depending on the current setting and the short-circuit current available)
Shutdown time ()	≤ 15 ms (Short circuit ≥3 x I_N)
	0.1 s (Short circuit 2 ... <3 x I_N)
	1 s (Short circuit 1.5 ... <2 x I_N)
	4 s (Short circuit 1.1 ... <1.5 x I_N)
Undervoltage switch-off	≤ 17.8 V (active)
	≥ 19 V (inactive)
Overvoltage switch-off	≥ 30.5 V (active)
	≤ 29.5 V (inactive)
Waiting time	5 s (Between the pulses)
Number	5 (Start attempts in hiccup mode)

Signal: Feedback contact

Output voltage	U_{In+} - 0.7 V (high level)
Current (Maximum current)	≤ 20 mA
State condition (Normal operation)	low