Data sheet

Commercial Art.No.: R1.188.0940.1

Two-hand control relay SNZ4052K-A AC 115-120V(B)

Base unit EN 574 type IIIC, two-channel control, 2x N.C./N.O. startup inhibit circuit, synchronous time monitoring, 2 enabling current path, 1 signaling output, AC 115-120 V 50-60Hz, screw-terminals pluggable

Commercial Art.No.	R1.188.0940.1
EAN	4015573809680
Order Unit	1

Certificates / Approvals

Technical data

General

Function display	3 LED, green
Creepage distances and clearances between the circuits	EN 60664-1
Protection degree according to DIN EN 60529 (housing)	IP40
Protection degree according to DIN EN 60529 (terminals)	IP20
Ambient temperature min.	-25 °C
Ambient temperature max.	55 °C
Wire ranges screw terminals, fine-stranded / solid	1 x 0,2 mm² - 2,5 mm² / 2 x 0,2 mm² - 1,0 mm²
Wire ranges screw terminals,fine-stranded with ferrules	1 x 0,25 mm² - 2,5 mm² / 2 x 0,25 mm² - 1,0 mm²
Permissible torque min.	0.5 Nm
Permissible torque max.	0.6 Nm
Tightening moment	0.6 Nm
Weight	0.25 kg
Standards	EN ISO 13849-1EN 62061EN 574; EN 62061; EN 574
Suited for safety functions	yes
With muting function	No
Feedback circuit	yes
Start contact	No
Stop category acc. to IEC 60204	0
Rail mounting possible	yes
Applicable in accordance with EN 574	Type III C

Connection Data

Detachable clamps	yes

Type of electric connection	screw connection

Output circuit

Enabling paths	Normally open contact
Signaling paths	Opener
Contact material	Ag-alloy, gold-plated
Rated switching voltage, enabling paths AC	230 V
Rated switching voltage, enabling paths DC	24 V
Rated switching voltage, signaling paths AC	230 V
Rated switching voltage, signaling paths DC	24 V
Max. thermal current I_{th}, enabling paths	6 A
Max. thermal current I_{th}, signaling paths	2 A
Max. total current I^2 of all current path	9 A^2
Application category AC-15 (NO)	Ue 230V, Ie 3A
Application category DC-13 (NO)	Ue 24V, Ie 2,5A
Short-circuit protection (NO), max. fuse insert	6 A class gG fuse, fuse integral < 100 A^2s
Mechanical life	10^7 switching cycles
Outputs, signalling function, undelayed, with contact	1
Outputs, signalling function, delayed, with contact	0
Outputs, safe, undelayed, with contact	2
Outputs, safe, delayed, with contact	0

Control circuit

Nominal output voltage DC	24 V
Input current (safety circuit / reset circuit)	60 mA
max. peak current (safety circuit / reset circuit)	1000 mA
Response time tA1	40 ms
Response time tA2	40 ms
Min. switch-on time	40 ms
Recovery time tW	> 250 ms
Release time tR	< 50 ms
Synchronous time tS	≤ 500 ms
max. resistivity, per channel	≤ (5 + (1,333 x U_B / U_N - 1) x 200) Ω
Type of switch function of the inputs	NC/NO
Evaluation inputs	2-channel

Supply circuit

Nominal voltage U_N	AC 115-120 V
Rated consumption AC	3.2 VA
Rated frequency min.	50 Hz
Rated frequency max.	60 Hz
Electrical isolation supply circuit - control circuit	yes
Min. rated control supply voltage at AC 50 Hz	97.8 V
Max. rated AC voltage for controls, 50 Hz	132 V
Rated control supply voltage at AC 60HZ	97.8 V
Rated control supply voltage at AC 50HZ	132 V

Dimensions

Depth	114 mm
Width	22.5 mm

Height	96.5 mm

Classification

ECLASS 11	
ECLASS 8.1	27371821
ETIM 7.0	EC001452
ETIM 6.0	EC001452
ETIM 5.0	EC001452
ETIM 4.0	EC001452
ETIM 3.0	EC001452

Application

Model	Basic device
Suitable for monitoring of magnetic switches	No

Safety parameters

Category (ISO 13849-1)	4
PL (ISO 13849-1)	Level e
SIL_{Cl} (IEC 62061)	3
PFH_d (High demand mode)	3 E-8 1/h
HFT	1
$MTTF_d$	37 a
T_M	20 a
Proof test intervall (High demand mode)	20 a

Product compliance

ROHS conformity status	Compliant/Exempted
ROHS exceptions	III-6(c)
REACH-SVHC conformity status	Duty-To-Declare
REACH-SVHC substances	Lead
REACH-SVHC CAS numbers	7439-92-1