Basic device, 120/240VAC, 4DI 120VAC, 3 DO relays

Part no. C445BA-SANN
Article no. 181541
Catalog No. C445BA-SANN

Delivery program

Product range			Basic devices
Description			Digital Inputs 120 V AC
Rated control voltage	U_s	V AC	120/240

Technical data

General

Standards			IEC/EN 60947-4-1, UL 60947-4-1
Dimensions			
Width		mm	45
Height		mm	80
Depth		mm	112
Weight		kg	0.24
Mounting			Top-hat rail IEC/EN 60715, 35 mm
Protection type (IEC/EN 60529, EN50178, VBG 4)			IP20
Mounting position			Vertical
Mechanical shock resistance		g	15 Shock duration 11 ms non-operating
Altitude		m	Max. 2000
Terminal capacity			
Solid		mm^2	1 x (0.2 - 2.5)
flexible, with ferrule		mm^2	1 x (0,2 - 2,5)
Solid or stranded		AWG	1 x AWG24 - 12
Notes			Minimum length 7 mm.

Climatic environmental conditions

Operating ambient temperature min.		°C	-40
Operating ambient temperature max.		°C	+ 60
Storage	ϑ	°C	-40 - +80

Main conducting paths

Overvoltage category/pollution degree			II/3
Rated operating voltage	U_e	V AC	110 - 690
Rated frequency	f	Hz	47 - 63
Static heat dissipation, non-current-dependent	P_{vs}	W	5
Current measurement			
Release class		CLASS	5 - 40

Control section

Input data			
Supply voltage	U_{AUX}	V AC	120/240 (-20 - +10 %)
Actuating circuit (ON, L, R)			
Switching level "High"		V DC	0 - 30
Switching level "Low"		V DC	79 - 132
Feedback outputs			
Contacts			
N/O = Normally open			2 N/O
CO = changeover			1 CO
Rated operating voltage	U_e	V	120/240 V AC
Rated operational current			
AC-15			
230 V	I_e	A	1.5
Pilot Duty			

AC operated			B300
DC operated			R300 nur Schließer

Electromagnetic compatibility (EMC)

Electrostatic discharge (ESD)			
applied standard			IEC/EN 61000-4-2
Air discharge		kV	8
Contact discharge		kV	4
Electromagnetic fields (RFI)			
applied standard			IEC/EN 61000-4-3
		V/m	80 - 1000 MHz: 10
Burst		kV	2 according to IEC/EN 61000-4-4
power pulses (Surge)			1 kV (symmetrical) 2 kV (asymmetrical) according to IEC/EN 61000-4-5
Immunity to line-conducted interference to (IEC/EN 61000-4-6)		V	10

Design verification as per IEC/EN 61439

Technical data for design verification			
Static heat dissipation, non-current-dependent	P_{vs}	W	5
Operating ambient temperature min.		°C	-40
Operating ambient temperature max.		°C	60

Technical data ETIM 6.0

Low-voltage industrial components (EG000017) / Motor management device (EC002572)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Electronic motor control and motor protection device / Motor management device (ecl@ss8.1-27-37-08-04 [ACN964008])

Rated operation current Ie		A	136 - 136
Rated voltage Ue at AC 50 Hz		V	690 - 690
Rated voltage Ue at AC 60 Hz		V	690 - 690
Rated voltage Ue at DC		V	0 - 0
Rated operation frequency		Hz	47 - 63
Current detection module			No
Voltage detection module			No
Type of connection system			None
Rated control supply voltage Us at AC 50HZ		V	240 - 240
Rated control supply voltage Us at AC 60HZ		V	240 - 240
Rated control supply voltage Us at DC		V	0 - 0
Voltage type for actuating			AC/DC
Number of analogue inputs			0
Number of analogue outputs			0
Number of outputs, with contact			3
Number of electronic outputs			0
Number of binary inputs			4
Input for thermistor connection			No
Input for earth faulth detection			No
Input for analogue temperature sensor			No
Switching function			Mono stable
Type of electrical connection for auxiliary- and control current circuit			Screw connection
Type of interface			-
Degree of protection (IP)			IP20