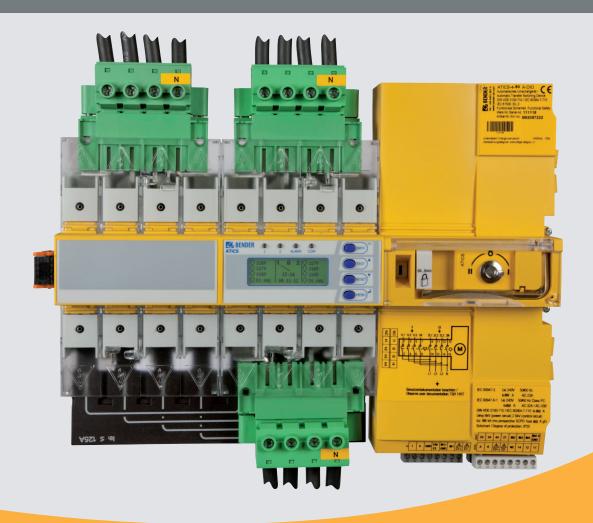


ATICS®-...-DIO

Automatic switching device for safety power supplies



ATICS®-...-DIO



Device features

Perfectly suitable for space-saving installation/retrofitting

- Compact device for designing safety power supplies with functional safety more easily, in accordance with DIN VDE 61508 (SIL 2), in computing centres, industry, or in group 2 medical locations in accordance with DIN VDE 0100-710 (VDE 0100-710)/ IEC 60364-7-710
- All-in-one: Integration of switch disconnector and control electronics
- · Compact design
- · Solutions for any application

Convenient installation and commissioning

Saves time and money

Safe operation

- Switch disconnector contacts of robust design
- Mechanical locking
- · Manual operation directly on the device
- Functional safety SIL 2
- · Certification by TÜV SÜD

Uninterrupted maintenance

- Plug connectors and optional bypass switch
- Excellent communication and parameterisation options

Task

Where sensitive electrical installations are involved, e.g. in medical locations of Group 2, industry or computing centre, safe and reliable power supply must be ensured, also in the event of malfunctions.

Redundant supply lines significantly contribute to achieve safe and secure power supply.

Product description

The ATICS®-...-DIO series automatic switching devices include all functions for changeover between two independent supply lines. The power section and the electronic section integrated in one flat, compact enclosure allow space-saving installation into the respective distribution board, simplifies wiring and reduces error potential. ATICS® has been developed consistently according to the Functional Safety standards (SIL 2) guarantee highest reliability.

Connectors at all connecting wires – in combination with the optional bypass switch – allow ATICS® to be tested or replaced during service works without interruption of the power supply. ATICS® considerably enhances the safety level particularly in industry, hospitals and sensitive areas.

Changeover

- Automatic changeover to the second (redundant) line on loss of the preferred supply voltage or when the values are outside the permissible voltage range
- Voltage monitoring line 1/2 (input) and line 3 (output)
- · Automatic return to the preferred line on voltage recovery
- Monitoring for short-circuits at the output of the transfer switching device to avoid harmful switching processes
- Manual operation, optionally locked by a padlock
- · Freely configurable assignment of the preferred/redundant line

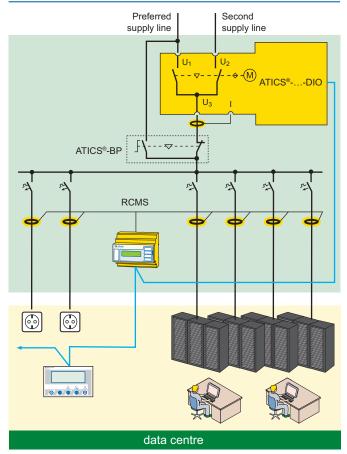
Messages

- Status indication of operating, warning and alarm messages via integrated graphic display and external display at MK2430 / MK800 / TM800 alarm indicator and operator panels
- · Automatic reminder for prescribed tests and service intervals
- History memory for events, messages, tests and parameter changes
- Communication between the ATICS $^{\!\circ}$ and alarm indicator and operator panels via BMS bus

Additional functions

- Continuous monitoring of the functional conditions of important internal components and connecting wires
- 4 programmable alarm relays
- 4 programmable digital inputs

Application example



Example application computing centre

- ATICS®-...-DIO: Changeover between the preferred and the redundant line
- MK2430/MK800/TM800: Alarm at at least two points for functional safety

Technical data

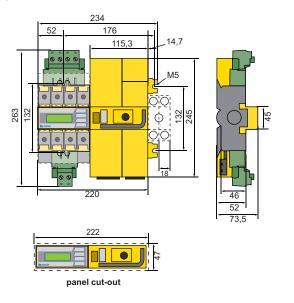
Insulation coordination acc. to IEC 60664-1/IEC 60664-3

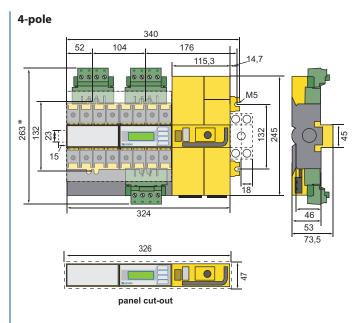
insulation coordination acc. to	1200001 1/120000	,,,,		
Overvoltage category			III	
Rated operational voltage U _e (oper	ating range)	230 V (AC 160.	276 V)	
Rated insulation voltage ATICS®-2-		250/400 V		
Supply voltage U_S	fı	from the system being monitored		
Power section/switching elem-	ents			
Nominal system voltage U_n	2-pole		AC 230 V	
4-pole	_ po.c		00/230 V	
Frequency range f _n		48	62 Hz	
Displays and data memory				
Display (languages DE, EN, FR)		graphi	c display	
History memory		500 data records		
Data logger		500 data records		
Config. logger		300 data	a records	
Test logger		100 data	a records	
Service logger			a records	
Input				
Digital inputs			4	
	hina hack interlockina fu	ınction, manual/automat		
		changeover to the prefe		
alarm input for operating				
alaini iliput ioi operating	tileatie lights, alaini lii	out for other technical eq	uipilielit	
Output				
	l-free changeover conta	act/3 potential-free N/O		
Operating principle adjustable		N/O or N/C o		
Function selectable	alarm or operating	message/common alarm ।		
		generato	r start-up	
BMS interface				
Interface/protocol		RS-4	485/BMS	
Environment/EMC				
Operating temperature		-25	+55°C	
EMC			61326-1	
Degree of protection		120	IP20	
-				
Terminals				
Power unit	up to 125 A			
Connection	pluggable screw ter	minals screw-type ter	minals	
rigid max.	35 mm ²	70 mm ²		
flexible max.	25 mm ²	50 mm ²	!	
Other				
Operating mode		continuous o	peration	
DIN rail mounting		according to IE		
Screw mounting				
2-pole			4 x M5	
4-pole			6 x M5	
Weight			O A INIJ	
2-pole		annrov	к. 4500 g	
4-pole			k. 4300 g k. 5700 g	
Scope of delivery		see ordering info		
scope of activery		see ordering lille	,, mulion	

Dimension diagram

Dimensions in mm

2-pole





* Version 80A/125A. Version 160 A without connectors.

Ordering information ATICS®...-DIO 2-pole

Version	Rated operational current <i>l</i> e AC	Scope of delivery	Туре	Art. No.
2-pole	63 A	1 x STW3, bridge, connectors, terminal cover	ATICS-2-63A-DIO	B 9205 7212
	80 A	1 x STW3, bridge, connectors, terminal cover	ATICS-2-80A-DIO	B 9205 7213
Bypass switch set	63 A	Bridge, terminal cover, auxiliary contacts, LEDs green/red	ATICS-BP-3-63A-SET	B 9205 7252
	80 A	Bridge, terminal cover, auxiliary contacts, LEDs green/red	ATICS-BP-3-80A-SET	B 9205 7253

Ordering information ATICS®...-DIO 4-pole

Version	Rated operational current <i>l</i> e AC	Scope of delivery	Туре	Art. No.
4-pole	80 A	3 x STW3, bridge, connectors, terminal cover	ATICS-4-80A-DIO	B 9205 7222
	125 A	3 x STW4, bridge, connectors, terminal cover	ATICS-4-125A-DIO	B 9205 7223
	160 A	3 x STW4, bridge, terminal cover	ATICS-4-160A-DIO	B 9205 7224



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