



IZOL PLAST
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ISO 9001
OBAC/002/SZJ/23

INDEX CARD

Time-delay overcurrent relay type RIS-1

Application:

Time-delayed overcurrent relay type RIS-1 is designed to protect against the effects of interruptions of one, two or three phases of parallel connected cables or sheath conductors in a three-phase outgoing 1000 V installation supplied from a system of parallel connected IT3Sb or IT3Sd transformer stations with a capacity of 400kVA and 630kVA and a gear 6/1 kV.


It is an overcurrent, delayed, non-adjustable, static relay with a contact output. The relay is powered through inputs B1-B3. Current signals from star-connected secondary windings of special current transformers are fed to the inputs A0, A1, A2, A3 of the relay.

When one, two or three current transformers flow through the primary windings of a value greater than the setting current of the RIS-1 relay, its electronic system causes a change of the contact state at the B1-B2 and B1-B4 outputs.

The relay is fully encapsulated with insulating mass, so it can be installed in connection chambers of flameproof devices.



Rated data of the RIS-1 relay:	
Nominal supply voltage	220V
Rated insulation voltage	250V
Relay setting current	32 mA
Rated power consumption	2,5 VA
Tripping time for a current flow of 1.5 times the setting current	600 ms
Deviation of the response time	± 25%
Switching capacity of the contacts	
- closing a circuit with resistive load at 220V	5A
- opening at 220V a circuit with an inductive load of $\cos\varphi = 0.4$	2A
The degree of protection of the housing	IP 54
Ambient temperature	from 0°C to 60°C
External dimensions	118x67x47 mm
Mass	0,6 kg
Feature of admission	I (M2) [EExm] I

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Admissible operating conditions of the RIS-1 relay:	
Height above sea level:	from - 2000 to 2000 m
Ambient temperature:	from 0°C to 60°C
Relay position during operation:	any

Certificate:

Time-delayed overcurrent relay type RIS-1 has the WE type examination certificate: **OBAC 05ATEX303U of 22.12.2005**. made by the **Center for Testing, Attestation and Certification OBAC Gliwice**.

The basic requirements of safety and health protection were implemented by meeting the requirements of the standards:

PN-EN 50014:2004
PN-EN 50028:2002(U)

The RIS-1 type time-delay overcurrent relay was marked in accordance with the WE type examination certificate as follows:



OBAC 05ATEX303U
I (M2) [EE_{xm}] I