



The protection relay which prevents a transformer accident

This relay is installed between the main unit of the transformer and the conservator in order to protect the transformer and detect an accident of internal mechanism.

The relay is provided with the first contact (slight failure contact) that is operated by gas to be generated by a slight accident and the second contact (serious failure contact) that is operated by an oil flow to be generated by a sudden pressure rise.

◆ Main specification

Type		BH	BR
Specification of contact	Slight failure contact (ALARM)		
	Gas quantity	225 ± 25cm ³ to 325 ± 25cm ³	450 ± 50 cm ³
	Number of contact	1 to 3 contacts ※1	1 contact
	Serious failure contact (TRIP)		
	Oil flow	1.0 ± 0.15m/sec ※2	BR-50 : 2.8~3.4ℓ/sec BR-80 : 3.6~4.4ℓ/sec ※2
	Number of contact	1 to 3 contacts ※1	1 contact
Contact capacity		DC 250V 0.3A AC 250V 10A	DC 250V 0.25A AC 250V 5 A
Kind of Switch		Micro switch	
Insulation Resistance		DC 500V more than 100MΩ (terminal to case)	
Withstand voltage		AC 2000V 1 minutes (terminal to case)	
Withstand pressure		0.3 MPa	
Screw Size of conduit outlet		G 3/4	
Angle of installation		Upward angle of 0 to 5 degrees toward conservator	
Degrees of protection provided by enclosures		IP54 (IP Code / IEC 60529)	

※1: The number of contact is 4 contacts in the most of the total of ALARM and TRIP.

※2: Please contact us about other setting of oil flow rate at TRIP contact.

◆ Optional Extra

i) Gas Collector

It is a device gathering the resolution gas generated in transformer through a pipe from gas release valve of Buchholz relay.

ii) Test pipe and Test pump

These are pipe attached inside the Buchholz relay and manual air pump for testing contact movement by blowing compressed air from the outside as it is installed.

For further information:

Shinagawa Sokki Mfg. Co., Ltd.
2-16, Omori-minami 1-chome, Ota-ku, Tokyo 143-0013
Phone : +81-3-3745-0011 FAX: +81-3-3745-0015
URL : <http://www.shinagawasokki.co.jp>