

INDEX CARD

Artificial zero choke DZ-3/1 type

Application:

The artificial zero choke can be used for networks with a rated voltage of 230 V, 500 V, 1000 V and a rated frequency of 50 Hz. It cooperates with the universal control and protection device type UCMI and the central-blocking leakage protection type RRgx-A or other leakage protection devices protecting against the effects of electric current leakage to the ground in non-grounded AC power networks with a rated voltage of up to 1140 V, 50 Hz. , including mine networks supplying mining equipment in flameproof enclosures.

The electrical system of the artificial neutral ckoke consists of three chokes connected in a star shape, enclosed in one housing. The artificial neutral choke is intended for installation in the chambers of flameproof enclosures, including the DN equipment chambers of transformer stations of explosion-proof or shielded construction. It cooperates with the UCMI or RRgx-A protection blocking element through the contacts of the main protection switch. The artificial zero choke can be used for networks with a rated voltage of 230V, 500V, 1000V and a rated frequency of 50Hz.



Rated data:

Rated voltage U _n	1140 V, 50 Hz
Maximum voltage	1,1 U _n = 1254 V, 50 Hz
Inductance of phase conductors	400H (150H)
Rated current	1 mA ±30%
Electric strength against the core	2,5 kV
Electrical strength of the insulation	4 kV
Choke winding resistance	4 kΩ ±10%
Ambient temperature	-10°C to +70°C
Level of security	IP65
Dimensions	Length: 198mm Width: 67mm Height: 76mm



INDEX CARD

Artificial zero choke **DZ-3/1 type**

Maximum values of the circuit which is protected against sparks:

Circuit output voltage	U _{i max} = 20 V
Circuit output current	$I_{i max} = 1 mA$
Inductance	(L1, L2, L3) - (N) L _i =400H, L _i /R _i =112mH/Ω
Network capacity	C _{o max} = 1µF per phase
The capacity of the circuit which is protected against sparks	C _i = negligible
A feature of the safety from sparks of the circuit	class ib

Certificate:

Center for Attestation and Certification Research OBAC Sp. z o. o. on May 29, 2015 issued a supplementary EUtype examination certificate: OBAC 08ATEX517U / 1.

The DZ-3/1 type artificial zero choke has the EU-type examination certificate: OBAC 08ATEX517U issued by the Center for Testing, Attestation and Certification OBAC Sp. z o. o. in Gliwice. The basic requirements of safety and health protection were implemented by meeting the requirements of the following standards:

- PN-EN 60079-0:2013
- PN-EN 60079-11:2012

The DZ-3/1 type artificial neutral choke was marked in accordance with the EU-type examination certificate as follows:

OBAC 08ATEX517U



I M2 Ex ib I Mb **(1461**

