

Iron-cored inductors

Inductive load units, Inductors for testing switches and relays

Advantages

- Matched linearity to the application, so no saturation in the relevant working range
- Several tappings, so there amount of inductors can be reduced
- Matched winding resistance, therefore reduced number of external resistors
- Designed for continuous load and short-time loading
- Costs reduced by optimized weight and dimensions
- High nominal voltage, standard up to 1000 V

Description

Electrical switches have to pass many different tests during the approval phase. Some of these tests concern their switching behaviour under various test conditions. A switch is tested under nominal load, overload and with several values of $\cos \phi$ (power factor). Besides continuous loading, switching on and off processes are also investigated. Throughout testing, it is crucial for the set parameters not to be altered. Air-cored inductors were used as inductive loads in the past, because they almost never saturate. Air-cored inductors are however larger and have a stronger leakage field than comparable iron-cored inductors with corresponding magnetic energy. In order to set the relevant $\cos \phi$ (power factor) value, matched resistances must be connected up in addition. In order to meet all the required test points, many various inductive and ohmic loads must be available.

REOCHOKE NPT 892-2-450



Relevant norms: IEC 60669 und IEC 61058

Technical data

REOCHOKE NPT 892-2-450					
Tapping	Inductance L	Nominal current I_{rms}	Linear up to I_{lin}	Nominal voltage U_r	IP Code
L_2	115 mH	2 A	8 A	1000 V	IP 00
L_3	190 mH		8 A		
L_4	240 mH		6 A		
L_5	300 mH		6 A		
L_6	370 mH		5 A		
L_7	410 mH		4 A		
L_8	440 mH		4 A		
L_r	450 mH		4 A		