

## Single- and three-phase reactors

### Technical specifications

<b>Rated alternating current <math>I_{Ln}</math></b>	from 450 to 3000 A
<b>System supply voltages available</b>	15 kV AC 16 $\frac{2}{3}$ Hz 25 kV AC 50 Hz 1.5 kV DC
<b>Inductance per phase mH</b>	0.3 mH to 16 mH, typical ratings 0.5 mH at 830 A with $E = 139$ Ws 2.0 mH at 3000 A with $E = 9000$ Ws 16.0 mH at 670 A with $E = 3592$ Ws
<b>Total power loss W</b>	on request
<b>Total weight kg</b>	on request
<b>Frequency</b>	Application-specific 33 $\frac{1}{3}$ Hz, 50 Hz, 100 Hz, 0 – 300 Hz
<b>Degree of protection</b>	IP00, exposed to all weather factors
<b>Safety class</b>	I according to VDE 0106
<b>Terminal</b>	Free cable, flat copper (application-related)
<b>Installation</b>	Hanging, underfloor (application-related)
<b>Cooling</b>	CF, forced air cooling Typically 10 to 12 m/s at 40°C
<b>Climatic conditions</b>	Loads due to "damp heat" and "salt mist" DIN IEC 721 – 3-5 Class 5C2 (chemically active materials) DIN IEC 721 – 3-5 Class 5F2 (contaminated materials) DIN IEC 721 – 3-5 Class 5S2 (mechanically active materials)
<b>Insulation</b>	up to 25 kV rated voltage for clearances in air 32 mm clearances in air (minimum value) 4000 V DC insulation rated voltage for creepage distances
<b>Permissible ambient temperature during operation</b>	-40°C to +40°C
<b>Temperature classes</b>	$t_a$ 40°C/F to $t_a$ 65°C/F, $t_a$ 55°C/H
<b>Mechanical load</b>	DIN IEC 68-2-6/06.90 Vibration, sinusoidal approx. 2 g DIN IEC 9/426/CDV Vibration wide-band noise DIN IEC 68-2-27/08.89 Shock UIC 566 Vibration and shock resistance
<b>Standards/approvals</b>	The reactors comply with VDE 0535, EN 60310
<b>Dimensions</b>	on request
<b>Storage temperature</b>	-40°C to +80°C

## Technical specifications

<b>Rated alternating current <math>I_{Ln}</math></b>	up to 600 A
<b>System supply voltages available</b>	2.3 kV DC
<b>Inductance per phase mH</b>	9 mH to 17 mH, typical ratings 6 to 9 mH at 230 to 400 A with $E = 230$ Ws 17 mH for 500 - 800 A
<b>Total power loss W</b>	on request
<b>Total weight kg</b>	on request
<b>Frequency</b>	DC applications, the aforementioned currents take into account a 30% ripple of the alternating current
<b>Degree of protection</b>	IP00, exposed to all weather factors
<b>Safety class</b>	I according to VDE 0106
<b>Terminal</b>	Free cable, flat copper (application-related)
<b>Installation</b>	Hanging, underfloor (application-related)
<b>Cooling</b>	CF, forced air cooling Typically 10 to 12 m/s at 40°C
<b>Climatic conditions</b>	Load due to "damp heat" and "salt mist" DIN IEC 721 – 3-5 Class 5C2 (chemically active materials) DIN IEC 721 – 3-5 Class 5F2 (contaminated materials) DIN IEC 721 – 3-5 Class 5S2 (mechanically active materials) DIN IEC 721 – 3-5 Class 5K3 (climatic category) DIN IEC 721 – 3-5 Class 5B2 (biologically active materials)
<b>Insulation</b>	up to 12 kV rated voltage for clearances in air >20 mm clearances in air (minimum value) 1900 V DC insulation rated voltage for creepage distances
<b>Permissible ambient temperature during operation</b>	-30°C to +70°C
<b>Temperature classes</b>	$t_a$ 60°C/H
<b>Mechanical load</b>	DIN IEC 68-2-6/06.90 Vibration sinusoidal approx. 2 g DIN IEC 9/426/CDV Vibration wide-band noise DIN IEC 68-2-27/08.89 Shock UIC 566 Vibration and shock resistance
<b>Standards/approvals</b>	The reactors comply with VDE 0535, EN60310
<b>Dimensions</b>	on request
<b>Storage/transport temperature</b>	-40°C to +70°C