



Technical specifications

	Iron-core smoothing reactors as series inductance for direct current motors	Iron-core smoothing reactors with selectable inductance and current	
Max. continuous thermal current I_{thmax}	See the table "Selection and ordering data".	See the table "Selection and ordering data".	
Rated direct current I_{dn}			
Inductance at I_{thmax}			
Energy content E at I_{thmax}			
Connection of winding for type 4ET			
Permissible ripple of superimposed alternating current	≤ 30 %	≤ 30 %	
Core losses P_{Fe}/winding losses P_W/weight	See the table "Selection and ordering data".	See the table "Selection and ordering data".	
Degree of protection	IP00 according to DIN VDE 0470-1/EN 60529		
Rating of creepage distance and clearance	Pollution degree 2 according to DIN VDE 0110		
Rated voltage for insulation (for installation altitudes of up to 2000 m above sea level)	Type 4EM: Type 4ET with terminal: Type 4ET25 to 4ET45: Type 4ET47 to 4ET80:	According to EN 690 V DC 800 V AC/DC 1000 V AC/DC 1150 V AC/DC	According to  600 V DC, 600 V DC, 600 V DC, 600 V DC, 600 V DC (up to 4ET54)
Reduction of the rated voltage for insulation (at installation altitudes > 2000 m above sea level)	See "Configuration notes".		
Permissible ambient temperature during operation	Type 4EM: -25 °C ... +70 °C Type 4ET: -25 °C ... +80 °C		
Deviation of permissible direct current from rated direct current I_{dn} at coolant temperatures ≠ +40 °C	See "Configuration notes".		
Temperature classes	Type 4EM: t_a 40 °C/B Type 4ET: t_a 40 °C/H (utilization according to F for applications according to EN) Type 4ET: t_a 40 °C/H (for applications according to )		
Installation altitude	≤ 1000 m above sea level		
Deviation of permissible direct current from rated direct current I_{dn} (at installation altitudes > 1000 m above sea level)	See "Configuration notes"		
Standards/approvals	The reactors comply with EN 61558-2-20 (Type 4ET47 to 4ET80: DIN VDE 0532). UL 1561: XQNX2, XQNX8, CSA 22.2 H47		
Storage temperature	-25 °C ... +55 °C		
Transport temperature	-25 °C ... +70 °C		
Permissible humidity rating	Humidity 5 % ... 95 % occasional condensation permissible		