



## Technical specifications

	Iron-core smoothing reactors as series inductance for DC motors	Iron-core smoothing reactors with selectable inductance and current
Maximum continuous thermal current $I_{thmax}$	See "Selection and ordering data" table	See "Selection and ordering data" table
Rated direct current $I_{dn}$		
Inductance for $I_{thmax}$		
Energy content $E$ at $I_{thmax}$		
Connection of the winding with type 4ET		
Permissible ripple of superimposed alternating current	$\leq 30\%$	$\leq 30\%$
Core losses $P_{Fe}$ /winding losses $P_w$ /weight	See "Selection and ordering data" table	See "Selection and ordering data" table
Degree of protection	IP00 according to DIN VDE 0470-1 / EN 60529	
Rating of creepage distances and clearances	Degree of soiling 2 according to DIN VDE 0110	
Rated voltage for insulation (for site altitudes 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 (to 4ET54)
Reduction of the rated voltage for insulation (at site altitudes > 2000 m above sea level)	See "Configuration notes"	
Permissible ambient temperature during operation	Type 4EM: -25°C to +70°C Type 4ET: -25°C to +80°C	
Deviation of permissible direct current from rated direct current $I_{dn}$ at coolant temperatures $\neq +40^\circ\text{C}$	See "Configuration notes"	
Temperature classes	Type 4EM: $t_a$ 40°C/B Type 4ET: $t_a$ 40°C/H (utilisation according to F for applications according to EN) Type 4ET: $t_a$ 40°C/H (for application according to  )	
Site altitude	$\leq 1000$ m above sea level	
Deviation of permissible direct current from rated direct current $I_{dn}$ (at site 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). The reactors 4EM46 to 4ET54 are UL recognised under Guide No. XQNX2 and File No. E103902, as well as cUL approved under Guide No. XQNX8 File No. E103902 (applies to reactors with $U_N \leq 600$ V according to UL)	
Storage temperature	-25°C to +55°C	
Transport temperature	-25°C to +70°C	
Permissible humidity rating	Humidity 5% to 95% occasional condensation permissible	