

Technical specifications

Recommended supply voltage U_N	See the table "Selection and ordering data"
Rated alternating current I_{L_n}	
Max. continuous thermal current I_{thmax}	
Peak current I_{Lmax}	
Permissible continuous direct current with downstream six-pulse bridge converter ($I_{dn} = I_{thmax} \cdot 1.225$)	
Inductance per phase	
Core losses P_{Fe} at $f = 50$ Hz	
Winding losses P_W	
Weight	
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)	690 V AC at $U_N \leq 500$ V for 4EP with terminals 1000 V AC at $U_N \leq 830$ V for 4EP, 4EU24 to 4EU43 with flat terminals
Permissible ambient temperature during operation	Type 4EP: -25 °C ... $+70$ °C Type 4EU: -25 °C ... $+80$ °C
Deviation of the permissible alternating current from the rated alternating current I_{L_n} at coolant temperatures $\neq +40$ °C	See "Configuration notes".
Temperature classes	Type 4EP: t_a 40 °C/B Type 4EU: t_a 40 °C/H (utilization according to F for applications according to EN 61558) Type 4EU: temperature class H (for applications according to UL)
Installation altitude	≤ 1000 m above sea level
Deviation of the permissible alternating current from the rated alternating current I_{L_n} at installation altitudes > 1000 m above sea level	See "Configuration notes".
Operation with varying load	Rating on request
Operation at 60 Hz	I_{L_n} (60 Hz) = $0.9 \cdot I_{L_n}$ (50 Hz)
Standards/approvals	The reactors comply with EN 61558-2-20 (Type 4EU45 to 4EU51: DIN VDE 0532) The reactors are UL recognized under Guide No. XQNX2 and cUL approved under Guide No. XQNX8 (only applies to reactors with $U_N \leq 600$ V according to UL)
Storage temperature	-25 °C ... $+55$ °C
Transport temperature	-25 °C ... $+70$ °C
Permissible humidity rating	Humidity 5 % ... 95 % occasional condensation permissible