

Technical specifications

Recommended supply voltage U_N Rated alternating current I_{LN} Maximum continuous thermal current I_{thmax} Peak current I_{Lmax} Maximum 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	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)	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 terminations
Permissible ambient temperature during operation	Type 4EP: -25°C to +70°C Type 4EU: -25°C to +80°C
Deviation of the permissible alternating current from rated alternating current I_{LN} at coolant temperatures $\frac{1}{4}$ +40°C	See "Configuration notes"
Temperature classes	Type 4EP: t_a 40°C/B Type 4EU: t_a 40°C/H (utilisation according to F for applications according to EN 61558) Type 4EU: temperature class H (for applications according to UL)
Site altitude	£ 1000 m above sea level
Deviation of the permissible alternating current from rated alternating current I_{LN} at site altitudes >1000 m above sea level	See "Configuration notes"
Operation with varying load	Rating on request
Operation at 60 Hz	I_{LN} (60 Hz) = $0.9 \cdot I_{LN}$ (50 Hz)
Standards/approvals	The reactors comply with EN 61558-2-20 (type 4EU45 to 4EU51: DIN VDE 0532) UL 1561 for reactors with $U_N \leq 600$ V
Storage temperature	-25°C to +55°C
Transport temperature	-25°C to +70°C
Permissible humidity rating	Humidity 5% to 95% occasional condensation permissible