



# LV8 System Data

Parameter	Value
Mains supply voltage	3 AC 380 – 440 V $\pm$ 10% 3 AC 480 V $\pm$ 10% 3 AC 690 V $\pm$ 10%
Mains frequency	50/60 Hz $\pm$ 2%
Max. short-circuit current of the mains supply	40 kA (50kA on request)
Power factor	$\cos \varphi = 1$ or adjustable (depending on the power reserves)
Auxiliary voltage	400 / 230 VAC
Output frequency induction motors	0 – 300 Hz (up to 600 Hz on request)
Output frequency PM synchronous motors	0 – 1500 Hz
Efficiency at rated power	> 95%
Pulse frequency	2,5 – 12 kHz
Frequency accuracy	0,01%
Speed accuracy	0,05% (in steady state, with encoder)
Torque accuracy	2-3% (for torque control)
Active current rise time	$\leq 2$ ms (within the nominal range)
Environmental temperature	During operation: +5 ... +40°C (55°C optional with Derating) Storage: -20 ... +65°C
Environmental class	EN 60721-3-3: 3K3 / 3M2 / 3C2 / 2K2, but no occurrence of salt fog
Insulation coordination	Degree of contamination 2 according to DIN EN 60664-1 and UL840
Installation altitude	$\leq 1000$ m above sea level
Installation side	Indoor Installation
Cubicles	Fa. Rittal, Type VX25, with double-bit key and rod lock
Air humidity	5 – 85% (Condensate in the Converter room must be avoided)
Noise level	$\leq 75$ dB (A) measured at 1m distance
Degree of protection	IP23
Cooling	Air-cooled, partially water-cooled
Color	RAL 7035
Dimensions and weights	Project specific
Approvals	CE, UL (Planned)