



KL9570 | Buffer capacitor terminal

The KL9570 Bus Terminal contains high-performance capacitors for stabilising supply voltages. The KL9570 can be used in conjunction with KL2531/KL2541 stepper motor terminals and KL2532/KL2552 DC motor terminals. Low internal resistance and high-pulsed current capability enable good buffering in parallel with a power supply unit. Return currents are stored, particularly in the context of drive applications, thereby preventing overvoltages. If the regenerative energy exceeds the capacity of the capacitors, energy can be dissipated via an external braking resistor.

Technical data	KL9570 KS9570
Diagnostics	–
Nominal voltage	50 V
Capacity	500 µF
Ripple current (max.)	10 A @ 100 kHz
Internal resistance	< 20 mΩ @ 100 kHz
Surge voltage protection	> 56 V
Recommended ballast resistor	ZB8110
Overvoltage control range	±2 V
Ballast resistor clock rate	load-dependent, 2-point control
Electrical isolation	1500 V (K-bus/field potential)
Weight	approx. 65 g
Operating/storage temperature	0...+55 °C/-25...+85 °C
Relative humidity	95 %, no condensation
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protect. class/installation pos.	IP 20/variable
Pluggable wiring	for all KSxxxx Bus Terminals
Approvals	CE, Ex

Accessories	
ZB8110	external ballast resistor, 10 Ω, 100 W, for EL9576 brake chopper terminal and for KL9570 Bus Terminal

i Product announcement	KL9570: available KS9570: estimated market release on request
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