



KL8001 | Power terminal for Siemens contactor, series Sirius 3R

Like a standard motor protection relay the KL8001 power terminal is fitted to a power contactor up to a switching capacity of 5.5 kW. The connection mechanism of the KL8001 power terminal of the KL8xxx series is particularly suitable for Siemens contactors of the Sirius 3R series. Other power terminals are adapted for other contactor manufacturers. The power terminal switches the installed contactor and takes over all the functions of the motor protection relay. Apart from its purely protective function of switching off the motor when overloaded, the power terminal can carry out numerous diagnostic functions on the motor and make the information available to the controller via the fieldbus.

Technical data	KL8001
Number of power terminals	up to 10 (at 140 mA typ. current consumption per contactor)
Contactor	connection mechanism for Siemens contactor series Sirius 3R (switch size S00, Typ 3RT 10 1)
Type of connection power path	screw terminals up to 2 x 2.5 mm ²
Current load	max. 25 A (fuse)
Short-circuit-proof	up to 5 kA
Internal resistance	< 1 mΩ
Setting range of nominal current	0.9...9.9 A
Tripping classes	class 5, 10, 15, 20, 25, 30 selectable
Measured values	current, voltage, power
Measuring error	0.1 A AC
Measuring voltage	500 V AC
Type of K-bus connection	2 x flat plug socket, 10-pin
Current consumpt. K-bus	typ. 150 mA
Current consumption power contacts	typ. 7 mA + load
Power contacts	24 V DC (-15 %/+20 %)/1.4 A max., short-circuit-proof
Electrical isolation	500 V (24 V DC/K-bus), 2,500 V (mains supply/K-bus)
Configuration possibility	automatically, via the fieldbus, KS2000, rated current also manually
Bit width in the process image	input/output: 64 bits, 8 bit control/status, 32 bit data
Adapter terminal	KL9060
Short circuit behaviour	conforms to EN 60947-4-1 (assignment type 2)/VDE 102
Triggering tolerance	conforms to IEC 947, as well as UL and CSA
Weight	approx. 90 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, contactor dependent
Approvals	CE

Accessories	
KL9060	Adapter terminal for KL8001 power terminals
ZK1010-8080-3003	ribbon cable for bus connection between two power terminals KL8001, length 0,03 m, included in scope of supply of KL8001
ZK1010-8080-3005	ribbon cable for bus connection between two power terminals KL8001 for reversing contactor connection, length 0,05 m
ZK1010-8080-3010	ribbon cable for bus connection between the KL9060 and the KL8001, length 0,1 m, included in scope of supply of KL9060
ZS1010-1610	Plug for exposed bus connection of the KL8001, included in scope of supply of KL9060

Related products	
KL8601	Communication module for Schneider motor starter TeSys model U