

Instruction manual Motor Protection Switch K3100






Dear customer,
Thank you for purchasing this product.

The article has been finally tested and meets the requirements of the applicable European and national directives. We hereby confirm CE conformity, the corresponding declarations are on file with us as the manufacturer.

In order to maintain the delivery condition of the product and to ensure safe operation, you as the user must observe these operating instructions. Therefore, please read the operating instructions in full before using the product and observe all operating and safety instructions!

These operating instructions belong to the product mentioned. It contains important information on commissioning and handling. Pay attention to this, even if you pass this product on to third parties. Therefore, please keep these operating instructions for future reference

Warnings

-  The version without a motor protection switch may only be connected to the mains after a motor protection switch has been fitted.
-  There is a danger to life if live parts of the appliance are touched.
-  During installation, retrofitting and maintenance work, ensure that all electrical conductors, terminals and connecting parts are de-energized.

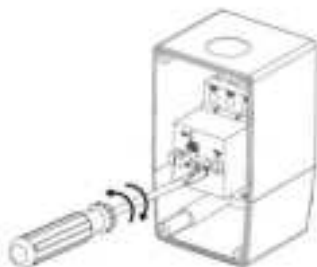
Connection

The appliance may only be connected by qualified personnel and only with the mains plug disconnected. To do this, open the cover, install a suitable motor protection switch and connect the connecting cable. Then refit the cover. The motor protection switch is now ready for operation.

Fasten the housing with M5 threaded screws.

Setting/replacing the motor protection switch

Setting



Set to rated motor current

Replacing



Fault - Cause - Remedy

Fault	Cause	Remedy
Motor protection switch cannot be switched on	Incorrect supply voltage (for version with undervoltage release)	Check voltage
	Incorrect connection of the undervoltage coil (for version with undervoltage release)	Check connection
	Motor protection has tripped thermally	Observe a cooling time of approx. 15 min. Then test again.
	Short circuit on connected load	Check connected device
Motor protection triggers too early	Motor protection switch setting too low	Check setting and correct if necessary
	Load draws too high a current	Check connected loads

Warranty

- 12 months after date of shipment (calendar week and year are stated on the type plate).
- Damage caused by overload, normal wear and tear, incorrect wiring, or incorrect treatment is not covered by warranty.
- Any warranty is voided if the power class of the switch is not suitable for the application.
- Warranty claims are only accepted if the complete device is sent in. Warranty claims beyond the switch are not accepted.

It is not economic to repair switches that are older than three years. Please do not send them for repair. All switches must be sent postage paid.

Versions

Description	Version			
	Earthing contact plug	CEE 2P+T	CEE 3P+N+ET16A 400V	CEE 3P+N+T 32A 400V
Only housing	VA99.0277	VA99.0293	VA98.3121	0098.3132
with MS 0.10-0.16 A	VB99.0277	VB99.0293	VB98.3121	
with MS 0.16-0.25 A	VC99.0277	VC99.0293	VC98.3121	
with MS 0.25-0.40 A	VD99.0277	VD99.0293	VD98.3121	
with MS 0.40-0.63 A	VE99.0277	VE99.0293	VE98.3121	
with MS 0.63-1.00 A	VF99.0277	VF99.0293	VF98.3121	
with MS 1.00-1.60 A	VG99.0277	VG99.0293	VG98.3121	
with MS 1.60-2.50 A	VH99.0277	VH99.0293	VH98.3121	
with MS 2.50-4.00 A	VI99.0277	VI99.0293	VI98.3121	
with MS 4.00-6.30 A	VJ99.0277	VJ99.0293	VJ98.3121	
with MS 6.30-10.0 A	VK99.0277	VK99.0293	VK98.3121	VB98.3132
with MS 10.0-16.0 A	VL99.0277	VL99.0293	VL98.3121	VC98.3132
with MS 16.0-20.0 A				VD98.3132
with MS 20.0-25.0 A				VE98.3132
with MS 25.0-32.0 A				VF98.3132

Suitable motor protection switches

Part no.	Rated current
4037.5101	0.10-0.16 A
4037.5102	0.16-0.25 A
4037.5103	0.25-0.40 A
4037.5104	0.40-0.63 A
4037.5105	0.63-1.00 A
4037.5106	1.00-1.60 A
4037.5107	1.60-2.50 A
4037.5108	2.50-4.00 A
4037.5109	4.00-6.30 A
4037.5110	6.30-10.0 A
4037.5111	10.0-16.0 A
4037.5112	16.0-20.0 A
4037.5113	20.0-25.0 A
4037.5114	25.0-32.0 A

Other housing versions without MS switch

Part no.	Description
0098.3100	Housing without plug, closed all round
0098.3101	Housing without plug, with 2x M20 screw connection
0098.3105	Housing with mains and motor cable, mains cable with CEE plug 3P+N+E 16A 400V
0098.3110	Enclosure with CEE collar plug 3P+N+E 16A 400V
0098.3115	Housing with CEE collar plug 3P+N+E 16A 400V and motor cable

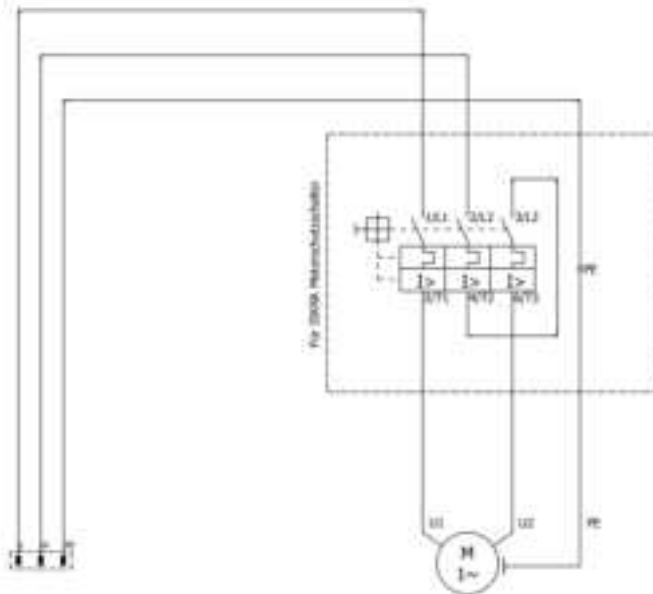
You can find further accessories on our website www.klibo.de

Circuit diagrams

1-phase mains supply

For 1-phase mains supply, all poles of the motor protection switch must be connected. The jumper required for this is included in the delivery.

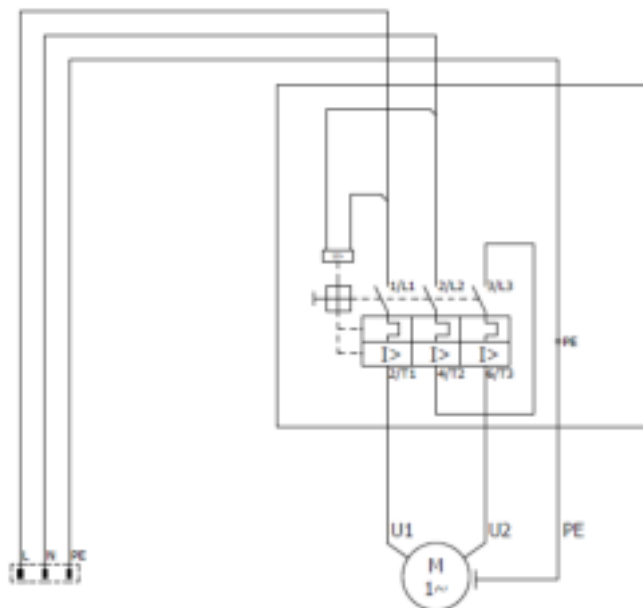
Without undervoltage coil



Power supply
1Ph~ 230V/N/PE
50Hz, max. 16A

Motor

With undervoltage coil

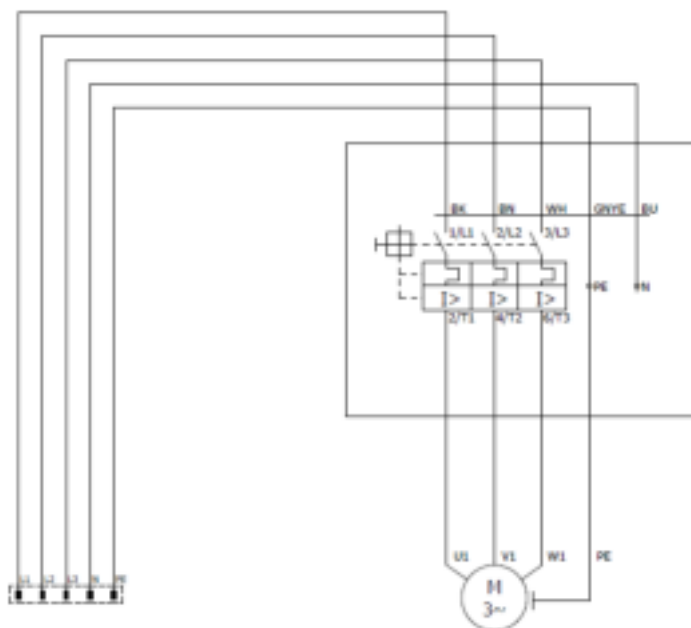


Power supply
1Ph~ 230V/N/PE
50Hz, max. 16A

Motor

3-phase mains supply

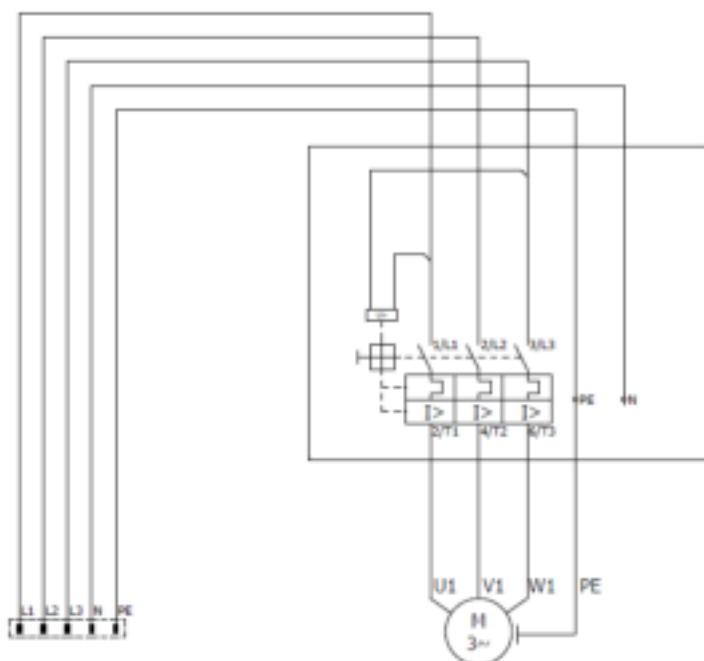
Without undervoltage coil



Power supply
3Ph~ 400V/230V/N/PE
50Hz, max. 16/32A

Motor

With undervoltage coil



Power supply
3Ph~ 400V/230V/N/PE
50Hz, max. 16/32A

Motor

Safety information for motor protection switch K3100

- **Follow the manufacturer's instructions:** Read and follow the manufacturer's operating instructions carefully. These contain important information on installation and use.
- **Use a suitable version:** Ensure that the motor-protective circuit-breaker is suitable for the power, current and voltage used. An incorrectly dimensioned motor-protective circuit-breaker can lead to damage or dangerous situations.
- **Safe installation:** Install the motor-protective circuit-breaker in accordance with the applicable regulations and standards. The connection must be carried out by a qualified electrician.
- **Mains fuse protection:** The motor-protective circuit-breaker must be protected with appropriate back-up fuses. Please refer to the data sheet for the appropriate back-up fuses for the different power classes.
- **Water and dust protection:** Use the motor-protective circuit-breaker with suitable protection types (e.g. IP protection classes) if they are used in damp or dusty environments.
- **Regular maintenance:** Regularly check the condition of the motor-protective circuit-breaker and the connected devices for wear or damage.
- **Emergency stop/emergency stop switch:** Versions with emergency stop/emergency stop must be checked regularly by pressing the emergency stop/emergency stop mushroom button.
- **Maintenance, adjustment or repair work:** Switch off all connected devices beforehand and disconnect the corresponding mains plugs. Disconnect the mains supply or the back-up fuse.
- **Warnings:** See operating instructions for warnings.

If you have any questions, please contact our technical advisory service:

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