



F&F Filipowski L.P.
Konstantynowska 79/81, 95-200 Pabianice, POLAND
phone/fax (+48 42) 215 23 83 / (+48 42) 227 09 71
www.fif.com.pl; e-mail: biuro@fif.com.pl

CZF2-B

Phase loss sensor
with contactor
contact control



Do not dispose of this device in the trash along with other waste!

According to the Law on Waste, electro coming from households free of charge and can give any amount to up to that end point of collection, as well as to store the occasion of the purchase of new equipment (in accordance with the principle of old-for-new, regardless of brand). Electro thrown in the trash or abandoned in nature, pose a threat to the environment and human health.



Purpose

The phase loss sensor with contactor contact monitoring is designed to protect a 3-phase mains-supplied electric motor in cases of:

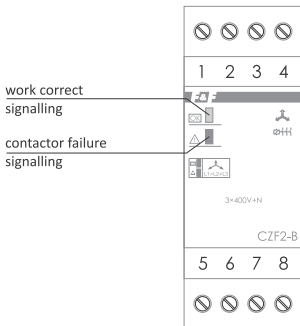
- » a voltage loss in at least one phase;
- » voltage asymmetry between phases above 55V;
- » failure of the contactor switch contacts.

Functioning

Correct power supply to the receiver is signalled by the green LED glowing. A loss of voltage on at least one phase, or a voltage asymmetry above 55 V is signalled by both LEDs being off. Both of the abovementioned anomalies cause the device relay to switch off, resulting in the disconnection of the motor. The disconnection is carried out with a 4-second delay to avoid accidental disconnections for momentary disturbances in the network. Relay re-engagement is automatic when the correct mains parameters return (voltage hysteresis is 5 V).

Failure of any of the contacts of the contactor switching on the motor will cause the contactor to be permanently switched off. Restarting the motor will not be possible until the power supply has been disconnected, the contactor fault has been rectified and the power supply has been reconnected.

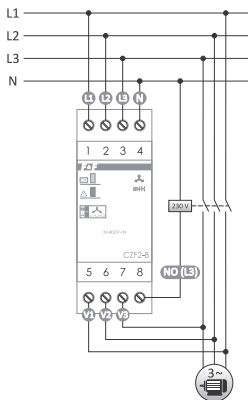
Front panel



Mounting

1. Check correct operation of motor (direction of rotation).
2. Disconnect power supply.
3. Fix the sensor on the rail in the control box.
4. Connect the power supply to terminals 1, 2, 3, 4 as marked.
5. Connect the contactor outputs (L1, L2, L3) to terminals 6, 7, 8 respectively.
6. Connect the power supply to terminal 8 for the coil of the on-off contactor.
7. Switch on the power supply.
8. Green LED on - correct voltage asymmetry and phase voltages - motor can be started.

Wiring diagram



Contact configuration



Technical data

power supply	3×400 V+N
contact	separated 1×NO
maximum load current (AC-1)	10 A
signalling of correct power supply	2×LED
tripping voltage asymmetry	55 V
voltage hysteresis	5 V
deactivation delay for asymmetry	4 s
deactivation delay for phase failure	1 s
activation delay	4 s
power consumption	1.6 W
working temperature	-25÷40°C
terminal	2.5 mm ² screw terminals (cord) 4.0 mm ² screw terminals (wire)
tightening torque	0.5 Nm
dimensions	2 modules (35 mm)
mounting	for TH-35 rail
ingress protection	IP20

Warranty

The F&F products are covered by a warranty of the 24 months from the date of purchase. Effective only with proof of purchase. Contact your dealer or directly with us.

CE declaration

F&F Filipowski L.P. declares that the device is in conformity with the essential requirements of The Low Voltage Directive (LVD) 2014/35/EU and the Electromagnetic Compatibility (EMC) Directive 2014/30/UE.

The CE Declaration of Conformity, along with the references to the standards in relation to which conformity is declared, can be found at www.fif.com.pl on the product page.



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