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## CZF

### PHASE CONTROL RELAYS

#### three phase monitors



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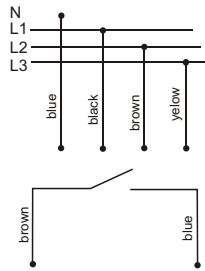
F&F products are covered by an 24 months warranty from date of purchase

#### PURPOSE

Three phase monitors serve to protect the three-phase electric motors supplied from three-phase mains, against phase collapse in at least one phase or against phase-to-phase voltage asymmetry, threatening to damage the motor.



#### WIRING DIAGRAM



#### FUNCTIONING

Supplied a receiver is signalized by shine of diode LED in at everyone phase. Phase collapse in at least one phase or voltage unbalance between phases above fixed actuation threshold causes switching-OFF the motor. The motor switching-OFF occurs with delay from 3 to 5 sec, which prevents any accidental motor disconnecting at temporary voltage drop. The re-connection will occur automatically at voltage increase of 5V above activation voltage (i.e. of value of voltage hysteresis). At occurrence of these disturbances, it is not possible to set a motor in motion.

#### ASSEMBLY

1. Check work of motor.
2. Take OFF the power.
3. Put on the relay to substrate by two screws.
4. Connect phase cable of relay to joints of contractor to powered side; black - L1; brown - L2; yellow - L3; blue - N.
5. Two wires cable of relay connect at line to coil of contractor which switch ON the motor from any place in installation.

#### TECHNICAL DATA

supply	3×400/230V +N
current load	<10A
joint	1N/O
sygnalling of supply	3×LED
activation voltage asymmetry	45V~
hysteresis	5V~
switching OFF delay	4sec
power consumption	1,6W
working temperature	-25+40°C
connection	OMY 4×1mm <sup>2</sup> ; 2×0,75mm <sup>2</sup> , l=0,5m
dimensions	50×67×26mm
fixing	two screws to substrate

