



## TRIPPING UNIT IM

**Protection Program**

PZ-04043E

### Application

Tripping unit IM is used as a part of arc guard system, and it provides five fast tripping outputs. In switchgears with multiple incoming feeders it is necessary to disconnect all circuit breakers that are feeding electric arc. For this purpose arc monitors ZELK-2 or ZELK-3 are connected to tripping unit IM with five fast static outputs.

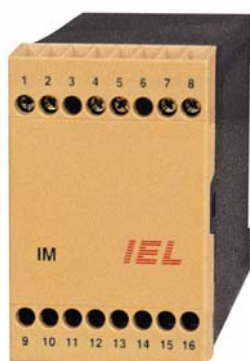


figure 1. Tripping unit IM

### Main features

- five fast static outputs
- auxiliary supply not required
- galvanical insulation 2,5kV between all insulated circuits
- small dimensions, and simple mounting on rail DIN EN 50022-35

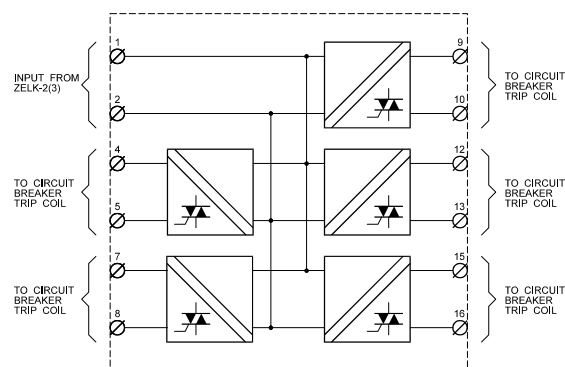


figure 2. Terminal diagram of tripping unit IM

### Functional description

Tripping unit IM is connected to electrical output of arc monitor ZELK-2 or ZELK-3, as shown in figure 2. Output signal from ZELK-2(3) instantaneously triggers five static outputs (triacs) of tripping unit. All static outputs are galvanically insulated between each other and from

ZELK-2(3) input respectively. Thus they can trip five circuit breakers in switchgear.

Tripping circuits of the circuit breaker can be supplied by AC or DC supply. In case of DC supply it is necessary to connect auxiliary contact in series with circuit breaker's trip coil to interrupt the current through the triac.

Tripping unit does not require auxiliary supply.

### Specifications

**electronic input:**

input from  
ZELK-2 or ZELK-3..... 12V 20mA

**tripping output:**

number of outputs:..... from 2 to 5  
load current:..... 10A for 300ms  
hold current:..... 5 mA  
peak withstand voltage: ..... 600V DC  
rated voltage: ..... 220V AC or DC  
operating time IM + ZELK..... < 1ms

**general data:**

temperature range:.....-10°C..+55°C  
insulation test voltage:.....2,5 kV, 50Hz, 1min  
between all insulated  
circuits

**mechanical data:**

mounting: .....on DIN EN 50022-35  
rail  
dimensions.....45x74x120 mm

