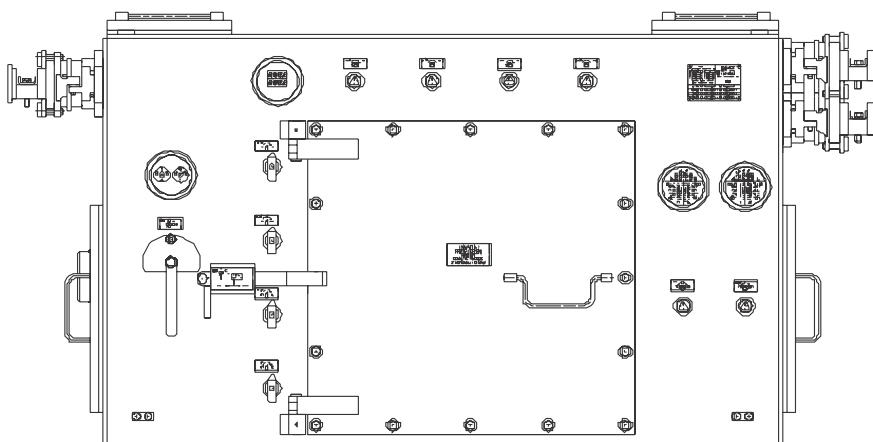




## Special circuit breaker type **MAR-WS-15-80**

|  |   |
|--|---|
| Capacity   | 80 kVA                                  |
| Autotransformer  | 1000 V / 500 V                          |
| Nominal primary voltage  | 1000 V, 50-60 Hz (option 660 V, 1140 V) |
| Nominal lower voltage  | 500 V / 42 V                            |
| Nominal external auxiliary 1-phase voltage and capacity                            | 24 V, 42 V, 50 Hz 200 VA                |
| Number of circuit (with contractors)   | 4                                       |
| Total power of engines   | 1x55 kW lub 2x30 kW lub 4x15 kW         |
| The maksimum current of trough terminals   | 350 A                                   |
| Internal auxiliary voltage for powering electronic relays, displays and separators | 24 V, 133Hz 24 V DC                     |
| Setting range of overload protection   | 5,0-99,8 A or 1,0-19,8 A                |
| Range of settings short-circuit protection   | 998 A or 198 A                          |
| Resistance leakage protection activation the main circuit 500 V                    | 50 kΩ ±20%                              |
| Resistance activation of the central locking protection of circuit 24V, 42V        | 4 kΩ ±20%                               |
| Nominal switching frequency - ordinary, Nominal switching frequency - casual       | 120 (1/h) 12 (1/min)                    |
| Dimensions   | 1810 x 946 x 725mm                      |
| Weight   | 1300 kg                                 |

### Example of configuration of special circuit breaker



■ **PURPOSE:**

Special Circuit Breakers MAR-WS-15-80 are designed for use in mine in which there is a supply network 1000V and is necessary to use 500V devices. Circuit breaker is intended for direct starting of mining motors in underground mines with "a", "b" or "c" methane explosion hazard and "A" or "B" class explosive coal dust. They are suitable for use in three-phase networks with isolated neutral point of the transformer. Four outflows allow the combination of one to four motors or one or two of the possibility of reversion, or a combination of / in the options.



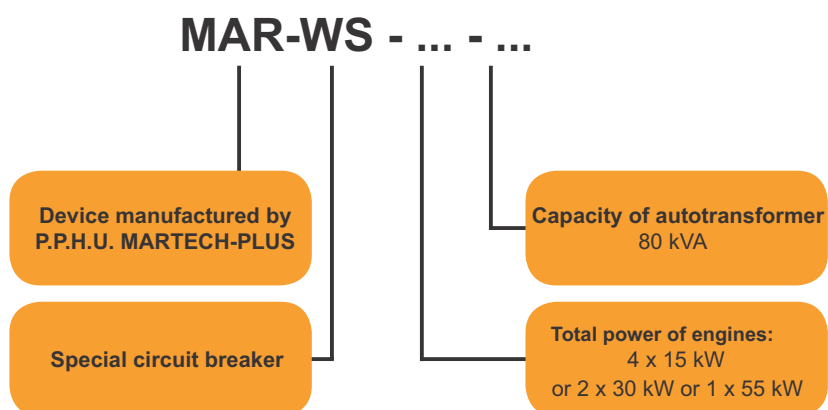
Circuit Breakers to protect against the effects of:

- short circuit,
- load asymmetry,
- overload
- low insulation resistance of the main circuits,
- short circuits, high resistance and gaps in the control circuits,
- high resistance grounding
- incorrect phase sequence and voltage asymmetry.

Provide secure control in variety of configurations and the ability to give a warning signal before switching on device. The advantage of a circuit breaker tripping of upstream protection signal clarity and operation of the main circuit contactor.

On display are indicated by LEDs following conditions security:

- short-circuit outflows,
- overload outflows,
- asymmetrical load of outflows,
- blocking drain leakage circuits,
- central-locking in external auxiliary circuits 24V, 42V and switching contactors in the circuits of the main outflow.



Niniejsza karta katalogowa nie stanowi oferty handlowej w rozumieniu przepisów Kodeksu Cywilnego oraz innych właściwych przepisów prawnych. Ma charakter wyłącznie informacyjny. Producent zastrzega sobie prawo do zmian. Wersja 1.01