



Breaker type WK-1 IMK is a device for connecting and securing electric mining machines in underground mines, explosive methane level of a, b and c and the risk of explosion coal dust grade A or B. It is designed for a supply voltage of 500V or 1000V from to transformer station of isolated point neutral on side low voltage.

The housing of breaker is flameproof OS-1 / IMK consists of three chambers: outflow, tributary and control.

In the cover are flameproof control buttons and programming controller knob of the main switch, viewing window allowing for the control operation. Above the door are connectors - flameproof bushings allow you to control local work.

The control system is based on a microprocessor controller SW-1 which protects the powered device and network against short circuits, overload and ground fault. At the same time it allows for remote control of powered devices, communication, data collection and measurement of operation.

Marking the switch: I M2 EExd [ia / ib] I

Basic technical data:

Device type	Breaker mine	
	WK-1	WK-2
Power	500/1000	
Electrical power	11÷90kW	11÷90kW/11÷90kW 90÷200kW/37kW
Type of control	local/remote	
Work reverse	11÷45kW	11÷45kW/11÷45kW 11÷90kW
Security	<ul style="list-style-type: none"> <li>- - Control of insulation resistance of the main line through the security lock</li> <li>- - Control of insulation resistance secondary circuit by securing central-locking</li> <li>- - Control of the continuity of the protective conductor / winding temperature or motor bearings</li> <li>- - Protection against short circuits,</li> <li>- - Protection against the effects of overload,</li> <li>- - Protection against the effects of power outages,</li> <li>- - Protection against the effects of current unbalance,</li> <li>- - Protection against the effects of phase loss,</li> <li>- - Protection against the effects of incorrect phase sequence.</li> </ul>	
Control system	microprocessor controller SW-1 for the rapid exchange (the tape) with clear graphical user interface	
I / O Controller	<ul style="list-style-type: none"> <li>- - 2 analog inputs 4..20mA Exia</li> <li>- 2 programmable digital inputs Exia</li> <li>- 4 programmable output pin usual</li> <li>- 4 programmable output pin Exia</li> </ul>	<ul style="list-style-type: none"> <li>- 2 x 2 analog inputs 4..20mA Exia</li> <li>- 2 x 2 programmable digital inputs Exia</li> <li>- 2 x 4 output pin conventional programmable</li> <li>- 2 x 4 output pin programmable Exia</li> </ul>
Settings / Programming	can be programmed without opening the circuit breaker (without additional devices pilot)	
Other	<ul style="list-style-type: none"> <li>- - Time measurement operation of the powered device</li> <li>- Registration of faults and changes settings in the controller's memory</li> <li>- Communication via RS485 Exia (option)</li> <li>- The pre-signaling control</li> <li>- 2 tier PIN (for the control and for the removal of failure)</li> </ul>	