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Relion® protection and control
Improved network reliability

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Relion® protection and control
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The Relion® product family offers a full range of native IEC 61850 products for the protection, control, measurement and supervision of power systems.

To ensure interoperable and future-proof solutions, the Relion series products have been designed to implement the core values of the IEC 61850 standard. Using these products, you benefit from ABB's leading-edge technology, global application knowledge and experienced support network.

The Relion technology is a forerunner in the field of protection and control in power systems. Our products are continously improved to meet the market requirements and deeply rooted in our vast experience of developing successful protection and control relays.

The Relion products implement the core values of the IEC 61850 standard and operating with other equipment and systems that conform to this standard, they are capable of running multiple communication tasks, including horizontal GOOSE messaging. Communication also runs smoothly with other manufacturer's products, which comply with the IEC 61850 standard.

ABB also offers a range of complementary products to facilitate power system automation in substations.

RIO600 is a remote unit to extend the number of input/output ports on the relays (IEC 61850 communication protocol).

	605 series	REX610	REX615 standard	REX615 wide	REX640
Applications					
Feeder protection and control					
Motor protection and control					
Transformer protection and control					
Generator protection and control					
Voltage protection and control					
Line differential protection and control					
Line distance protection					
Busbar protection					
Self-powered feeder protection					
Capacitor bank protection and control					
Key features					
Auxiliary source	Self-powered or auxiliary source (AC/DC)	Auxiliary source (AC/DC)	Auxiliary source (AC/DC)	Auxiliary source (AC/DC)	Auxiliary source (AC/DC)
Analog input	Conventional or sensor	Conventional	Conventional or sensor	Conventional or sensor	Conventional or sensor
Case type	Fixed	Withdrawable plug-in unit	Withdrawable plug-in unit	Withdrawable plug-in unit	Optional display
Display		4-line display 10 programmable LEDs	10 lines and customizable graphical display 11 programmable LEDs (2 colors)	10-line display and customizable graphical display 11 programmable LEDs (2 colors)	7-inch color touch screen
Control - Command		Open/close push button	Open/close push button 4 programmable buttons	Open/close push button 16 programmable buttons	Open/close from touch screen
Programming Interface	Display	Display PCM600 software configuration	Display PCM600 software configuration Web browser	Display PCM600 software configuration Web browser	Display PCM600 software configuration Web browser
Communication protocols	Modbus serial	Modbus TCP/IP, serial IEC 61850	Modbus TCP/IP, serial IEC 61850 Profibus DPV1 adapter Ethernet redundancy PRP and HSR DNP3 TCP/IP, serial IEC 60870-5-103 Process bus (IEC 61850-9-2 LE)	Modbus TCP/IP, serial IEC 61850 Profibus DPV1 adapter Ethernet redundancy PRP and HSR DNP3 TCP/IP, serial IEC 60870-5-103 Process bus (IEC 61850-9-2 LE)	IEC 61850 Modbus TCP/IP, serial IEC 60870-5-103 IEC 60870-5-104 DNP3 TCP/IP, serial Ethernet redundancy PRP and HSR Process bus (IEC 61850-9-2LE)
Additional functionality		Arc fault protection (optional)	Arc fault protection (optional)	Arc fault protection (optional)	Arc fault protection (optional) Petersen coil control
Additional input /output		RIO600	Optional I/O card depending on product version RIO600	Optional I/O card depending on product version RIO600	Optional I/O card depending on product version