

Neuheit  
New  
Nouveau  
Novità

Novedad

## SACE PR113

The range of releases is complete

604044/011



Nowadays, apart from ensuring considerable reliability, the protection devices must also have a simple interface with the user. From this viewpoint, a complete and innovative range of electronic microprocessor-based releases is available for the modern series of SACE Emax air circuit-breakers. Thanks to the new SACE PR113 release, those installing SACE Emax circuit-breakers, can now select the release which responds best to the requirements of their own plant and to the safety, reliability and economy features the design engineer has considered to be optimal. The new PR113 is a high-performance release with extraordinary versatility, able to constantly monitor the different electrical sizes and to offer a wide range of protection functions. Among these, the strong point is the directional protection, where ABB SACE is the only manufacturer able to supply this type of protection, needed in applications where there are meshed networks.



**ABB**



Thanks to the new protection functions installed, the service voltage, power flow and phase unbalance can be monitored constantly. The SACE PR113 release also provides a complete and continual determination of currents, voltages, energy and

powers. This function is shown by the liquid crystal graphic display able to show both diagrams and histograms with both these measurements and the relative sinusoids. The dimensions of the SACE PR113 relay are identical to those of the already well-known SACE

PR111 and PR112; this allows maximum interchangeability, making upgrading operations possible. The relay has the CE mark and complies with the main standards in terms of electromagnetic compatibility (EMC).



Function	SACE PR111	SACE PR112	SACE PR113
<b>L</b> Protection against overload with inverse long delay	■	■	■
<b>S</b> Selective protection against short-circuit with inverse short time delay or independent time	■	■	■
<b>I</b> Protection against instantaneous short-circuit	■	■	■
<b>G</b> Protection against earth faults	■	■	■
<b>T</b> Protection against overtemperature		■	■
<b>V</b> Undervoltage protection		■	■
<b>F</b> Protection against phase unbalance			■
<b>P</b> Protection against inverse power flow			■
<b>D</b> Directional protection			■
<b>Measurements</b>			
Phase, neutral, earth and fault currents		■	■
Phase, between-line and residual voltages			■
Network frequency			■
Active, reactive and apparent power			■
Phase power factor			■
Active, reactive and apparent energy			■
Harmonic distortion			■



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