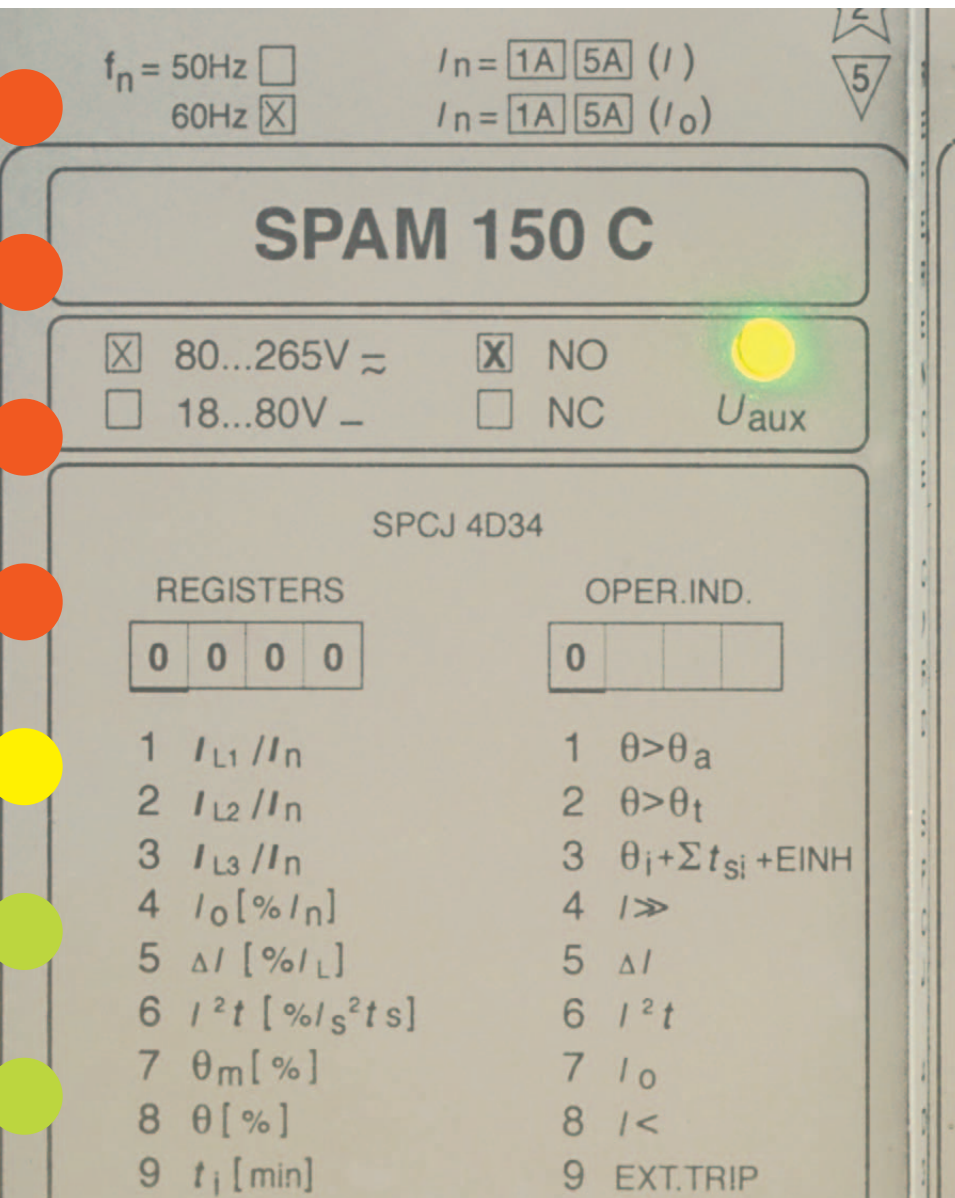


# SPAM 150 C Series

## Motor Protection Relay



### Versatile

...multi-function...

The microprocessor-based **SPAM 150 C**, Motor Protection Relay, is a perfect solution for AC motor drives. It provides **complete protection** for large- and medium-sized three-phase motors in all conventional contactor or circuit-breaker controlled motor drives.

### High-quality

...Motor Protection Relay...

This relay is also used in applications (such as feeders) requiring single-, two- or three-phase overcurrent and overload protection and non-directional earth-fault protection. The SPAM 150 C can provide AC motor protection **with enduring quality and proven reliability** in a large number of applications.

### Reliable

...through the years...

With numerous years of service in different applications world-wide, the SPAM 150 C serves you with a proven track record of reliability.

# The Relay with communication skills for in-depth data collection and analysis

The SPAM 150 C also features extensive data communication capabilities based on a fibre-optic serial bus between the motor protection and substation control system. As a result, this relay can collect data and record fault information, as well as provide in-depth post-fault analysis and on-line supervision of the motor drive.

## The legendary SPACOM family: More than 300,000 relays in use world-wide

The SPAM 150 Series relays belong to the SPACOM product family – already a legend in its field. With these products, ABB Substation Automation Oy was the first in the world to introduce a substation automation concept based on a genuine communicating micro-processor-controlled relay solution. Today, these products still keep pace with the same enduring protection power.

## SPAM 150 C Series Technology summary

### Integrated solution

thermal overload protection, monitoring all the three phases and start-up stall protection.

### High-set overcurrent protection

operating instantaneously or with definite time characteristic.

### Recorded memory

for measured fault parameters.

### Freely configurable

output relays for tripping and signalling.

### Direct numerical readout

for a full set of measured and recorded values, indications and status information.

### Data communication capabilities

Serial interface with digital display to connect the relay with the data collection, recording and analysis functions of local or remote control systems or other host systems.

### High immunity

to electrical and electromagnetic interference and rugged aluminium case to class IP54.

### Improved reliability and availability

supported by built-in self-supervision system with auto-diagnosis.

CE marking according to the EC directive for EMC.



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REGISTERS				OP
0	0	0	0	0
1	$I_{L1} / I_n$			1 6
2	$I_{L2} / I_n$			2 6
3	$I_{L3} / I_n$			3 6
4	$I_0 [ \% I_n ]$			4 /
5	$\Delta I [ \% I_L ]$			5 Δ
6	$I^2 t [ \% I^2 t s ]$			6 /
7	$\theta_m [ \% ]$			7 /
8	$\theta [ \% ]$			8 /
9	$t_1 [ \text{min} ]$			9 E



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