Accurate undercurrent protection function

UCP

1MRK 580 086-BEN
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Status: New
Data subject to change without notice

Features

- Detects undercurrent conditions
- Two setpoint levels, with individual start indicator and time delay are available

Application

The main purpose of the undercurrent protection function is to provide a criterion together with the carrier received signal, that indicates remote line end open.

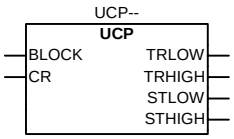
The function can be used for any application where a low current has to be identified.

Functionality

When any phase current decreases under the setpoint value, a start signal is issued.

When a start signal is activated and a the carrier received signal is true, a trip signal is issued after a settable time delay.

Function block



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Input and output signals

Table 1: Input signals for the UCP (UCP--) function block

Signal	Description
BLOCK	Block of undercurrent protection
CR	Received signal from communication channel logic

Table 2: Output signals for the UCP (UCP--) function block

Signal	Description
TRLOW	Low-set trip by undercurrent protection
TRHIGH	High-set trip by undercurrent protection
STLOW	Low-set start by undercurrent protection
STHIGH	High-set start by undercurrent protection

Technical data

Table 3: Undercurrent protection

Parameter	Setting range
Low-set step of undercurrent limit, ILLow<	5-100% of Ib in steps of 0.1%

Parameter	Setting range
High-set step of undercurrent limit, ILHigh<	5-100% of Ib in steps of 0.1%
Time delayed operation of low-set step, tLow	0-60 s in steps of 1 ms
Time delayed operation of high-set step, tHigh	0-60 s in steps of 1 ms

Manufacturer

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