



Monday, 1 March 2013  
PA05-TB \*\*\*DRAFT\*\*\*

## IPD Relay PRODUCT-UPDATE

SUBJECT: IPD TRANSIENT OVERREACH FUNCTION ADDED TO RELAY

Dear Customer:

Good news from Electronics – The IPD relay has been upgraded to broaden its applications; the current range of the relay has been expanded for a selectable time from the closure of the MCI input of the relay. This will allow for direct on-line-motors to start without tripping the Short Circuit protection, and in many cases will allow the delay for the S/C trip function to be reduced to a minimum without compromising the ability to start direct-online motors.

This Extended range is achieved by setting the START TRANSIENT delay in the relay settings on level 9.

### New Parameter:

The "START TRANSIENT" delay can be set to the following values:

Dis (Disable function)
40ms
60ms
80ms
100ms
120ms

When setting the value to Dis (the default value), the transient overreach function will be disabled.

### New Transient overreach operation:

When the START TRANSIENT mode is enabled, the IPD current setting is increased for the specified period of time, after the main contactor has been closed. The increased current is achieved by the following:

1. For current multiplier **1/8x to 2x**, the current multiplier will be increased one step (e.g. 1/2x to 1x for 70ms)
2. For current multiplier **4x**, the base current will be increased to the maximum setting of 116A.

### Examples:

1. IPD set to 88A, 1x current multiplier and 6x short circuit multiplier, resulting in a short circuit setpoint of 568A. With START TRANSIENT mode set to 90ms, the current multiplier goes to 2x, and the short circuit trip level will increase to 1136A until 90ms after the MCI input (from the auxiliary contact on the main contactor) closes.

2. IPD set to 72A, 4x current multiplier and 8x short circuit multiplier, resulting in a short circuit setpoint of 2304A. With START TRANSIENT mode set to 150ms, the base current goes to 116A, and the short circuit trip level will increase to 3712A (116A x 4 x 8) until 150ms after the MCI input closes.

### Compatibility:

This is a Software upgrade only and as such is fully compatible with the existing systems.

For more information please refer to the product manual or contact Customer service on 02 4903 4800

Yours sincerely  
**AMPCONTROL CSM PTY LTD**

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