MULTI-FUNCTION BREAKER FAILURE PROTECTION
WITH BINARY I/O OPTION

1) 6) BINARY INPUT, PROGRAMMABLE
7) 15) RELAY OUTPUTS 1-9, PROGRAMMABLE FUNCTION
16) LOSS OF AUXILIARY VOLTAGE

PROGRAMMABLE FUNCTIONS FOR BINARY INPUTS:
BREAKER FAILURE EXTERNAL START SIGNAL: IL1, IL2, IL3, 3-PHASE,
UNCONDITIONAL BREAKER FAILURE, CIRCUIT-BREAKER FAILURE,
BLOCKING BREAKER FAILURE AND POLE DISAGREEMENT; STORE
ACTUAL CURRENTS; RESET OF LED INDICATION.

PROGRAMMABLE FUNCTIONS FOR BINARY OUTPUTS:
RETRIP SIGNAL IL1, IL2, IL3, 3-PHASE; BACK-UP TRIP 1 SIGNAL;
BACK-UP TRIP 2 SIGNAL, POLE DISAGREEMENT START AND TRIP;
IN SERVICE

BINARY INPUT OPTIONS:
BLOCKING/ENABLING IN, IN, IN, IN

BINARY OUTPUT OPTIONS:
START AND TRIP IL1, IL2, IL3, IL1T, IL2T, IL3T;
MULTI-PHASE IN, MULTI-PHASE IN, IN, IN

Diagram Details:
- Breaker failure external start signal: IL1, IL2, IL3
- Unconditional breaker failure
- Blocking breaker failure and pole disagreement
- Store actual currents
- Reset of LED indication
- Retrip signal IL1, IL2, IL3
- Back-up trip 1 signal
- Back-up trip 2 signal
- Pole disagreement start and trip

Binary input options:
- Blocking/enabling (IN, IN, IN, IN)

Binary output options:
- Start and trip (IL1, IL2, IL3, IL1T, IL2T, IL3T)
- Multi-phase (IN, IN, IN, IN)

Diagram References:
- ABB Automation Technologies
- 1MRK002029-CBA