PXLP-3000

Most of the Enertec PXLP-300 features are supported by the Power Factory model. Due to the current PowerFactory structure and data management approach the relay settings are spread in many functional blocks.

Relationship between the relay settings and the Power Factory PXLP model variables:

QAH module:

S1(impedance elements): "Polarizing" block,"Angle" variable. the relationship between the S1 value and the angle can be found in the "tabella II" at page #23 of the PXLP-3000 manual.

S2(impedance elements): "Polarizing" block,"ko" variable.

S3(ground directional): "Grnd Pol for Directional" block,"ko" variable.

S4(ground fault detection): "Fault detection ground" block, "Pickup current" variable.

QMR Module:

N4 (Starting element): "Starting" block, "+Reactance" variable (accordinagly with X4 = 10 /(n4 +1)*fn/In)

N5 (Starting element): "Starting" block, "-Reactance" variable (accordinagly with X5 = k5 * X4)

QMRV module:

X (trip zone #1): "x1" block, " reactance" variable (it includes both a1 and N1 accordinagly with X1 = 0.4 * a1 / (N1+1) * fn/ In)

Y (trip zone #2): "x2" block, " reactance" variable (it includes both a2 and N2 accordinagly with X2 = 0.4 * a2 / (N2+1) * fn/ In)

Z (trip zone #3): "x3" block, " reactance" variable (it includes both a3 and N3 accordinagly with X3 = 0.4 * a3 / (N3+1) * fn/ In)

QT module:

S9 (Starting element): "Starting" block, "Character.angle" variable

Notes:

The fuse blown detector is implemented using the "Fault detection 3ph" block, the "Fault detection ground" block and the "Ground voltage detector" block.
No use rinput is requested in the "Ground voltage detector" block.

Not supported features:

Power swing