7SJ512

The following needs to be considered when using this relay model:

1. The relay type is split in four basic types.
   a) 7SJ512_DT_DIR -> Directional, Definite Time
   Address 7812 (Charac. Ph) = Definite Time
   and Address 7815 (Charac. E) = Definite Time
   b) 7SJ512_IT_DIR -> Directional, Inverse Time
   (Address 7812 (Charac Ph) = Inverse Time
   and Address 7815 (Charac. E) = Inverse Time .
   c) 7SJ512_DT -> Definite Time Address 7812 (Charac. Ph) = Definite Time
   and Address 7815 (Charac. E) = Definite Time
   d) 7SJ512_IT -> Inverse Time (Address 7812 (Charac Ph) = Inverse Time
   and Address 7815 (Charac. E) = Inverse Time .
2. Thermal Overload feature:
   - K-Factor (2702) = current setting
   - T-Constant (2703) = time dial
   - The preload current can be set with the “time shift” factor
3. there are three CT slots present:
   1) CT : CT for measuring the phase currents (Terminals: 1,2,3 and 5,6,7)
   2) CT-Ie : CT for measuring the earth/ground current (Terminal: 4 and 8)
   3) CT-SEF: CT for measing the sensitive ground current (Terminal 17 and 18)

Not Modelled Functionalities

The following functionalities are not modelled:

1. CB failure protection
2. Measurement repetition
3. RMS Format
4. Faulted phase determination
5. Auto-reclosure
6. Inrush stabilization
7. Intermittent. earth fault protection
8. Thermal overload protection
   – Thermal warning stage (2704)
   – Current warning stage (2705)