| **PIMP – Impedance Protection** | | | | |
| --- | --- | --- | --- | --- |
| **DO Name** | **CDC** | **T** | **Explanation** | **M-O-C nds/ds** |
| **Descriptions** | | | | |
| NamPlt | LPL |  | Inherited from: Domain LN | O/O |
| PhyNam | DPL |  | Name Plate with information Analogue Input Board | M/M |
| **Status Information** | | | | |
| Beh | ENS |  | Inherited from: Domain LN | M/M |
| Health | ENS |  | Inherited from: Domain LN | O/O |
| PhyHealth | ENS |  | Physical Health of the Board | O/O |
| Str | ACD |  | If its ‘general’=true, a fault has been detected and its direction may be available in its ‘DirGeneral’ | M/F |
| Op | ACT | T | If its ‘general’=true, the function decided to trip due to under-impedance fault. The trip itself is issued by PTRC. | M/F |
| Blk | SPS |  | Inherited from: FunctionLN | O/F |
| FuFail | SPS |  | Anomaly in voltage circuit detected by impedance protection function | O/F |
| **Controls** | | | | |
| Mod | ENC |  | Inherited from: DomainLN | O/O |
| **Settings** | | | | |
| Artg | ASG |  | Rated current of the feeder | O/O |
| HzRtg | ASG |  | Nominal frequency of the system | O/O |
| VRtg | ASG |  | Rated voltage of the feeder | O/O |
| OpDlTmms | ING |  | Trip delay time | O/O |
| DlTmms | ING |  | Delay time for signalling detection voltage circuit anomaly | O/O |
| StrVal | ASG |  | Current threshold for start criteria of the impedance protection function | O/O |
| ImpGndRch | ASG |  | Impedance threshold for phase-to-neutral fault | O/O |
| ImpPhRch | ASG |  | Impedance threshold for phase-to-phase fault | O/O |
| XGndRch | ASG |  | Reactive threshold for phase-to-neutral fault | O/O |
| XPhRch | ASG |  | Reactive threshold for phase-to-phase fault | O/O |
| RisGndRch | ASG |  | Resistive threshold for phase-to-neutral fault | O/O |
| RisPhRch | ASG |  | Resistive threshold for phase-to-phase fault | O/O |
| ImpAng | ASG |  | Total equivalent impedance angle (lines and transformer), **in degrees** | O/O |
| DirMod | ENG  (DirectionModeKind) |  | Directional mode, used to enable operation when the directional conditions are met. If set to 'forward' or 'reverse', the protection operates  ('Op') only if the fault detected is in that direction. | O/F |
| AngDirOffset | ASG |  | Angle offset between line angle and angle of directional characteristic | O/F |
| RsDlTmms | ING |  | Time delay before reset once reset conditions have  been met | O/F |