| **PIMP – Impedance Protection** |
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| **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 havebeen met | O/F |