

# 7SR224 Recloser Controller

Overcurrent Protection Relay

## IEC 61850 Model Implementation Conformance Statement (MICS)

### Document Release History

This document is issue 2015/10. The list of revisions up to and including this issue is:

2012/10	First issue
2012/12	Addition of Software version only, no changes to contents
2014/01	Addition of Software version only, no changes to contents
2015/10	Addition of Software version only, no changes to contents

### Software Revision History

Date	Software Reference	Summary
2012/09	2435H85010R7b-7a	First Release
2012/12	2435H85010-R7c-7a	File handling during shutdown
2014/01	2435H85010-R7e-7c	Maintenance Release, Extended Deadtime setting range
2015/10	2435H85010-R8b-7d	Support for EN100+ module added

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# 1 Reyrolle -> IEC 61850

## 1.1 Device

Reyrolle	DOI	DA Group
LED Reset		
	CTRL.LLN0.LEDRs	stVal
Local Mode		
	CTRL.LLN0.Loc	stVal
	CTRL.CntPhAGGIO1.Loc	stVal
	CTRL.CntPhBGGIO1.Loc	stVal
	CTRL.CntPhCGGIO1.Loc	stVal
	CTRL.CntEFGGIO1.Loc	stVal
	CTRL.CntDelGGIO1.Loc	stVal
	CTRL.CntLOGGIO1.Loc	stVal
	CTRL.OpsLOGGIO1.Loc	stVal
	CTRL.CntTotAGGIO1.Loc	stVal
	CTRL.CntTotBGGIO1.Loc	stVal
	CTRL.CntTotCGGIO1.Loc	stVal
	CTRL.CntDelAGGIO1.Loc	stVal
	CTRL.CntDelBGGIO1.Loc	stVal
	CTRL.CntDelCGGIO1.Loc	stVal
	CTRL.CntLOAGGIO1.Loc	stVal
	CTRL.CntLOBGGIO1.Loc	stVal
	CTRL.CntLOCGGIO1.Loc	stVal
	CTRL.OpsLOAGGIO1.Loc	stVal
	CTRL.OpsLOBGGIO1.Loc	stVal
	CTRL.OpsLOCGGIO1.Loc	stVal
	CTRL.SPDOsGGIO1.Loc	stVal
	CTRL.SPDOsGGIO2.Loc	stVal
	CTRL.SPDOsGGIO3.Loc	stVal
	CTRL.SPDOsGGIO4.Loc	stVal
	CTRL.SPDOesGGIO1.Loc	stVal
	CTRL.SPDOesGGIO2.Loc	stVal
	CTRL.SPDOesGGIO3.Loc	stVal
	CTRL.SPDOesGGIO4.Loc	stVal

	CTRL.DPDOsGGIO1.Loc	stVal
	CTRL.DPDOsGGIO2.Loc	stVal
	CTRL.DPDOsGGIO3.Loc	stVal
	CTRL.DPDOsGGIO4.Loc	stVal
	CTRL.DPDOesGGIO1.Loc	stVal
	CTRL.DPDOesGGIO2.Loc	stVal
	CTRL.DPDOesGGIO3.Loc	stVal
	CTRL.DPDOesGGIO4.Loc	stVal
	CTRL.Q0CSW11.Loc	stVal
	CTRL.Q0XCBR1.Loc	stVal
	CTRL.Q0CSW12.Loc	stVal
	CTRL.Q0XCBR2.Loc	stVal
	CTRL.Q0CSW13.Loc	stVal
	CTRL.Q0XCBR3.Loc	stVal
Non-Directional		
	PROT.A64hPTOC1.Str	dirGeneral
	PROT.A46DtPTOC1.Str	dirGeneral
	PROT.A37PTUC1.Str	dirGeneral
	PROT.A37PTUC1.Str	dirPhsA
	PROT.A37PTUC1.Str	dirPhsB
	PROT.A37PTUC1.Str	dirPhsC
	PROT.A37PTUC2.Str	dirGeneral
	PROT.A37PTUC2.Str	dirPhsA
	PROT.A37PTUC2.Str	dirPhsB
	PROT.A37PTUC2.Str	dirPhsC
	PROT.A49PTTR1.Str	dirGeneral
	PROT.A2759PTOV1.Str	dirGeneral
	PROT.A2759PTOV1.Str	dirPhsA
	PROT.A2759PTOV1.Str	dirPhsB
	PROT.A2759PTOV1.Str	dirPhsC
	PROT.A2759PTUV1.Str	dirGeneral
	PROT.A2759PTUV1.Str	dirPhsA
	PROT.A2759PTUV1.Str	dirPhsB
	PROT.A2759PTUV1.Str	dirPhsC
	PROT.A2759PTOV2.Str	dirGeneral
	PROT.A2759PTOV2.Str	dirPhsA



	PROT.A2759PTOV2.Str	dirPhsB
	PROT.A2759PTOV2.Str	dirPhsC
	PROT.A2759PTUV2.Str	dirGeneral
	PROT.A2759PTUV2.Str	dirPhsA
	PROT.A2759PTUV2.Str	dirPhsB
	PROT.A2759PTUV2.Str	dirPhsC
	PROT.A2759PTOV3.Str	dirGeneral
	PROT.A2759PTOV3.Str	dirPhsA
	PROT.A2759PTOV3.Str	dirPhsB
	PROT.A2759PTOV3.Str	dirPhsC
	PROT.A2759PTUV3.Str	dirGeneral
	PROT.A2759PTUV3.Str	dirPhsA
	PROT.A2759PTUV3.Str	dirPhsB
	PROT.A2759PTUV3.Str	dirPhsC
	PROT.A2759PTOV4.Str	dirGeneral
	PROT.A2759PTOV4.Str	dirPhsA
	PROT.A2759PTOV4.Str	dirPhsB
	PROT.A2759PTOV4.Str	dirPhsC
	PROT.A2759PTUV4.Str	dirGeneral
	PROT.A2759PTUV4.Str	dirPhsA
	PROT.A2759PTUV4.Str	dirPhsB
	PROT.A2759PTUV4.Str	dirPhsC
	PROT.A2759PTOV5.Str	dirGeneral
	PROT.A2759PTUV5.Str	dirGeneral
	PROT.Vx2759PTOV1.Str	dirGeneral
	PROT.Vx2759PTOV1.Str	dirPhsA
	PROT.Vx2759PTOV1.Str	dirPhsB
	PROT.Vx2759PTOV1.Str	dirPhsC
	PROT.Vx2759PTUV1.Str	dirGeneral
	PROT.Vx2759PTUV1.Str	dirPhsA
	PROT.Vx2759PTUV1.Str	dirPhsB
	PROT.Vx2759PTUV1.Str	dirPhsC
	PROT.Vx2759PTOV2.Str	dirGeneral
	PROT.Vx2759PTOV2.Str	dirPhsA
	PROT.Vx2759PTOV2.Str	dirPhsB
	PROT.Vx2759PTOV2.Str	dirPhsC

	PROT.Vx2759PTUV2.Str	dirGeneral
	PROT.Vx2759PTUV2.Str	dirPhsA
	PROT.Vx2759PTUV2.Str	dirPhsB
	PROT.Vx2759PTUV2.Str	dirPhsC
	PROT.Vx2759PTOV3.Str	dirGeneral
	PROT.Vx2759PTOV3.Str	dirPhsA
	PROT.Vx2759PTOV3.Str	dirPhsB
	PROT.Vx2759PTOV3.Str	dirPhsC
	PROT.Vx2759PTUV3.Str	dirGeneral
	PROT.Vx2759PTUV3.Str	dirPhsA
	PROT.Vx2759PTUV3.Str	dirPhsB
	PROT.Vx2759PTUV3.Str	dirPhsC
	PROT.Vx2759PTOV4.Str	dirGeneral
	PROT.Vx2759PTOV4.Str	dirPhsA
	PROT.Vx2759PTOV4.Str	dirPhsB
	PROT.Vx2759PTOV4.Str	dirPhsC
	PROT.Vx2759PTUV4.Str	dirGeneral
	PROT.Vx2759PTUV4.Str	dirPhsA
	PROT.Vx2759PTUV4.Str	dirPhsB
	PROT.Vx2759PTUV4.Str	dirPhsC
	PROT.A47PTOV1.Str	dirGeneral
	PROT.A47PTOV2.Str	dirGeneral
	PROT.A59nDtPTOV1.Str	dirGeneral
	PROT.A81PTOF1.Str	dirGeneral
	PROT.A81PTUF1.Str	dirGeneral
	PROT.A81PTOF2.Str	dirGeneral
	PROT.A81PTUF2.Str	dirGeneral
	PROT.A81PTOF3.Str	dirGeneral
	PROT.A81PTUF3.Str	dirGeneral
	PROT.A81PTOF4.Str	dirGeneral
	PROT.A81PTUF4.Str	dirGeneral
	PROT.A50BfRBRF1.Str	dirGeneral
Out of Service		
	PROT.LLN0.Mod	stVal
	PROT.LLN0.Beh	stVal
	PROT.A51PTOC1.Beh	stVal

	PROT.A51PTOC2.Beh	stVal
	PROT.A51PTOC3.Beh	stVal
	PROT.A51PTOC4.Beh	stVal
	PROT.A50PTOC1.Beh	stVal
	PROT.A50PTOC2.Beh	stVal
	PROT.A50PTOC3.Beh	stVal
	PROT.A50PTOC4.Beh	stVal
	PROT.A51gPTOC1.Beh	stVal
	PROT.A51gPTOC2.Beh	stVal
	PROT.A51gPTOC3.Beh	stVal
	PROT.A51gPTOC4.Beh	stVal
	PROT.A50gPTOC1.Beh	stVal
	PROT.A50gPTOC2.Beh	stVal
	PROT.A50gPTOC3.Beh	stVal
	PROT.A50gPTOC4.Beh	stVal
	PROT.A51SefPTOC1.Beh	stVal
	PROT.A51SefPTOC2.Beh	stVal
	PROT.A51SefPTOC3.Beh	stVal
	PROT.A51SefPTOC4.Beh	stVal
	PROT.A50SefPTOC1.Beh	stVal
	PROT.A50SefPTOC2.Beh	stVal
	PROT.A50SefPTOC3.Beh	stVal
	PROT.A50SefPTOC4.Beh	stVal
	PROT.A64hPTOC1.Beh	stVal
	PROT.A46ItPTOC1.Beh	stVal
	PROT.A46DtPTOC1.Beh	stVal
	PROT.A37PTUC1.Beh	stVal
	PROT.A37PTUC2.Beh	stVal
	PROT.A49PTTR1.Beh	stVal
	PROT.A2759PTOV1.Beh	stVal
	PROT.A2759PTUV1.Beh	stVal
	PROT.A2759PTOV2.Beh	stVal
	PROT.A2759PTUV2.Beh	stVal
	PROT.A2759PTOV3.Beh	stVal
	PROT.A2759PTUV3.Beh	stVal
	PROT.A2759PTOV4.Beh	stVal

	PROT.A2759PTUV4.Beh	stVal
	PROT.A2759PTOV5.Beh	stVal
	PROT.A2759PTUV5.Beh	stVal
	PROT.Vx2759PTOV1.Beh	stVal
	PROT.Vx2759PTUV1.Beh	stVal
	PROT.Vx2759PTOV2.Beh	stVal
	PROT.Vx2759PTUV2.Beh	stVal
	PROT.Vx2759PTOV3.Beh	stVal
	PROT.Vx2759PTUV3.Beh	stVal
	PROT.Vx2759PTOV4.Beh	stVal
	PROT.Vx2759PTUV4.Beh	stVal
	PROT.A47PTOV1.Beh	stVal
	PROT.A47PTOV2.Beh	stVal
	PROT.A59nltPTOV1.Beh	stVal
	PROT.A59nDtPTOV1.Beh	stVal
	PROT.A81PTOF1.Beh	stVal
	PROT.A81PTUF1.Beh	stVal
	PROT.A81PTOF2.Beh	stVal
	PROT.A81PTUF2.Beh	stVal
	PROT.A81PTOF3.Beh	stVal
	PROT.A81PTUF3.Beh	stVal
	PROT.A81PTOF4.Beh	stVal
	PROT.A81PTUF4.Beh	stVal
	PROT.A50BfRBRF1.Beh	stVal
	PROT.PTRC1.Beh	stVal
	PROT.A79RREC1.Beh	stVal
	PROT.A79RREC2.Beh	stVal
	PROT.A79RREC3.Beh	stVal
	PROT.RFLO1.Beh	stVal
	PROT.RSYN1.Beh	stVal
	CTRL.LLN0.Mod	stVal
	CTRL.LLN0.Beh	stVal
	CTRL.CntPhAGGIO1.Beh	stVal
	CTRL.CntPhBGGIO1.Beh	stVal
	CTRL.CntPhCGGIO1.Beh	stVal
	CTRL.CntEFGGIO1.Beh	stVal

	CTRL.CntDelGGIO1.Beh	stVal
	CTRL.CntLOGGIO1.Beh	stVal
	CTRL.OpsLOGGIO1.Beh	stVal
	CTRL.CntTotAGGIO1.Beh	stVal
	CTRL.CntTotBGGIO1.Beh	stVal
	CTRL.CntTotCGGIO1.Beh	stVal
	CTRL.CntDelAGGIO1.Beh	stVal
	CTRL.CntDelBGGIO1.Beh	stVal
	CTRL.CntDelCGGIO1.Beh	stVal
	CTRL.CntLOAGGIO1.Beh	stVal
	CTRL.CntLOBGGIO1.Beh	stVal
	CTRL.CntLOCGIO1.Beh	stVal
	CTRL.OpsLOAGGIO1.Beh	stVal
	CTRL.OpsLOBGGIO1.Beh	stVal
	CTRL.OpsLOCGIO1.Beh	stVal
	CTRL.V16GGIO1.Beh	stVal
	CTRL.E16GGIO1.Beh	stVal
	CTRL.L28GGIO1.Beh	stVal
	CTRL.BI33GGIO1.Beh	stVal
	CTRL.BO14GGIO1.Beh	stVal
	CTRL.SPi64GGIO1.Beh	stVal
	CTRL.SP032GGIO1.Beh	stVal
	CTRL.SPDOnsGGIO1.Beh	stVal
	CTRL.SPDOnsGGIO2.Beh	stVal
	CTRL.SPDOnsGGIO3.Beh	stVal
	CTRL.SPDOnsGGIO4.Beh	stVal
	CTRL.SPDOesGGIO1.Beh	stVal
	CTRL.SPDOesGGIO2.Beh	stVal
	CTRL.SPDOesGGIO3.Beh	stVal
	CTRL.SPDOesGGIO4.Beh	stVal
	CTRL.DPDOnsGGIO1.Beh	stVal
	CTRL.DPDOnsGGIO2.Beh	stVal
	CTRL.DPDOnsGGIO3.Beh	stVal
	CTRL.DPDOnsGGIO4.Beh	stVal
	CTRL.DPDOesGGIO1.Beh	stVal
	CTRL.DPDOesGGIO2.Beh	stVal

	CTRL.DPDOesGGIO3.Beh	stVal
	CTRL.DPDOesGGIO4.Beh	stVal
	CTRL.DPi8GGIO1.Beh	stVal
	CTRL.DPi8GGIO2.Beh	stVal
	CTRL.DPo8GGIO1.Beh	stVal
	CTRL.DPo8GGIO2.Beh	stVal
	CTRL.Q0CSWI1.Beh	stVal
	CTRL.Q0XCBR1.Beh	stVal
	CTRL.Q0CILO1.Beh	stVal
	CTRL.Q0CSWI2.Beh	stVal
	CTRL.Q0XCBR2.Beh	stVal
	CTRL.Q0CILO2.Beh	stVal
	CTRL.Q0CSWI3.Beh	stVal
	CTRL.Q0XCBR3.Beh	stVal
	CTRL.Q0CILO3.Beh	stVal
	MEAS.LLN0.Mod	stVal
	MEAS.LLN0.Beh	stVal
	MEAS.I_MSQI1.Beh	stVal
	MEAS.V_MSQI1.Beh	stVal
	MEAS.V1_MSQI1.Beh	stVal
	MEAS.V2_MSQI1.Beh	stVal
	DR.LLN0.Mod	stVal
	DR.LLN0.Beh	stVal
	DR.RDRE1.Beh	stVal
Protection Active		
	PROT.LLN0.Mod	stVal
	PROT.LLN0.Beh	stVal
	PROT.A49PTTR1.Beh	stVal
	PROT.A50BfRBRF1.Beh	stVal
	PROT.PTRC1.Mod	stVal
	PROT.PTRC1.Beh	stVal
Protection Elements Enabled		
	PROT.A79RREC1.Mod	stVal
	PROT.A79RREC1.Beh	stVal
	PROT.A79RREC2.Mod	stVal
	PROT.A79RREC2.Beh	stVal

	PROT.A79RREC3.Mod	stVal
	PROT.A79RREC3.Beh	stVal
Protection Healthy		
	PROT.LLN0.Health	stVal
	PROT.A51PTOC1.Health	stVal
	PROT.A51PTOC2.Health	stVal
	PROT.A51PTOC3.Health	stVal
	PROT.A51PTOC4.Health	stVal
	PROT.A50PTOC1.Health	stVal
	PROT.A50PTOC2.Health	stVal
	PROT.A50PTOC3.Health	stVal
	PROT.A50PTOC4.Health	stVal
	PROT.A51gPTOC1.Health	stVal
	PROT.A51gPTOC2.Health	stVal
	PROT.A51gPTOC3.Health	stVal
	PROT.A51gPTOC4.Health	stVal
	PROT.A50gPTOC1.Health	stVal
	PROT.A50gPTOC2.Health	stVal
	PROT.A50gPTOC3.Health	stVal
	PROT.A50gPTOC4.Health	stVal
	PROT.A51SefPTOC1.Health	stVal
	PROT.A51SefPTOC2.Health	stVal
	PROT.A51SefPTOC3.Health	stVal
	PROT.A51SefPTOC4.Health	stVal
	PROT.A50SefPTOC1.Health	stVal
	PROT.A50SefPTOC2.Health	stVal
	PROT.A50SefPTOC3.Health	stVal
	PROT.A50SefPTOC4.Health	stVal
	PROT.A64hPTOC1.Health	stVal
	PROT.A46ItPTOC1.Health	stVal
	PROT.A46DtPTOC1.Health	stVal
	PROT.A37PTUC1.Health	stVal
	PROT.A37PTUC2.Health	stVal
	PROT.A49PTTR1.Health	stVal
	PROT.A2759PTOV1.Health	stVal
	PROT.A2759PTUV1.Health	stVal

	PROT.A2759PTOV2.Health	stVal
	PROT.A2759PTUV2.Health	stVal
	PROT.A2759PTOV3.Health	stVal
	PROT.A2759PTUV3.Health	stVal
	PROT.A2759PTOV4.Health	stVal
	PROT.A2759PTUV4.Health	stVal
	PROT.A2759PTOV5.Health	stVal
	PROT.A2759PTUV5.Health	stVal
	PROT.Vx2759PTOV1.Health	stVal
	PROT.Vx2759PTUV1.Health	stVal
	PROT.Vx2759PTOV2.Health	stVal
	PROT.Vx2759PTUV2.Health	stVal
	PROT.Vx2759PTOV3.Health	stVal
	PROT.Vx2759PTUV3.Health	stVal
	PROT.Vx2759PTOV4.Health	stVal
	PROT.Vx2759PTUV4.Health	stVal
	PROT.A47PTOV1.Health	stVal
	PROT.A47PTOV2.Health	stVal
	PROT.A59nItPTOV1.Health	stVal
	PROT.A59nDtPTOV1.Health	stVal
	PROT.A81PTOF1.Health	stVal
	PROT.A81PTUF1.Health	stVal
	PROT.A81PTOF2.Health	stVal
	PROT.A81PTUF2.Health	stVal
	PROT.A81PTOF3.Health	stVal
	PROT.A81PTUF3.Health	stVal
	PROT.A81PTOF4.Health	stVal
	PROT.A81PTUF4.Health	stVal
	PROT.A50BfRBRF1.Health	stVal
	PROT.PTRC1.Health	stVal
	PROT.A79RREC1.Health	stVal
	PROT.A79RREC2.Health	stVal
	PROT.A79RREC3.Health	stVal
	PROT.RFLO1.Health	stVal
	PROT.RSYN1.Health	stVal
	CTRL.LLN0.Mod	stVal



	CTRL.LLN0.Beh	stVal
	CTRL.LLN0.Health	stVal
	CTRL.CntPhAGGIO1.Health	stVal
	CTRL.CntPhBGGIO1.Health	stVal
	CTRL.CntPhCGGIO1.Health	stVal
	CTRL.CntEFGGIO1.Health	stVal
	CTRL.CntDelGGIO1.Health	stVal
	CTRL.CntLOGGIO1.Health	stVal
	CTRL.OpsLOGGIO1.Health	stVal
	CTRL.CntTotAGGIO1.Health	stVal
	CTRL.CntTotBGGIO1.Health	stVal
	CTRL.CntTotCGGIO1.Health	stVal
	CTRL.CntDelAGGIO1.Health	stVal
	CTRL.CntDelBGGIO1.Health	stVal
	CTRL.CntDelCGGIO1.Health	stVal
	CTRL.CntLOAGGIO1.Health	stVal
	CTRL.CntLOBGGIO1.Health	stVal
	CTRL.CntLOCGGIO1.Health	stVal
	CTRL.OpsLOAGGIO1.Health	stVal
	CTRL.OpsLOBGGIO1.Health	stVal
	CTRL.OpsLOCGGIO1.Health	stVal
	CTRL.V16GGIO1.Health	stVal
	CTRL.E16GGIO1.Health	stVal
	CTRL.L28GGIO1.Health	stVal
	CTRL.BI33GGIO1.Health	stVal
	CTRL.BO14GGIO1.Health	stVal
	CTRL.SPi64GGIO1.Health	stVal
	CTRL.SP032GGIO1.Health	stVal
	CTRL.SPDOnsGGIO1.Health	stVal
	CTRL.SPDOnsGGIO2.Health	stVal
	CTRL.SPDOnsGGIO3.Health	stVal
	CTRL.SPDOnsGGIO4.Health	stVal
	CTRL.SPDOesGGIO1.Health	stVal
	CTRL.SPDOesGGIO2.Health	stVal
	CTRL.SPDOesGGIO3.Health	stVal
	CTRL.SPDOesGGIO4.Health	stVal

	CTRL.DPDOsGGIO1.Health	stVal
	CTRL.DPDOsGGIO2.Health	stVal
	CTRL.DPDOsGGIO3.Health	stVal
	CTRL.DPDOsGGIO4.Health	stVal
	CTRL.DPDOesGGIO1.Health	stVal
	CTRL.DPDOesGGIO2.Health	stVal
	CTRL.DPDOesGGIO3.Health	stVal
	CTRL.DPDOesGGIO4.Health	stVal
	CTRL.DPi8GGIO1.Health	stVal
	CTRL.DPi8GGIO2.Health	stVal
	CTRL.DPo8GGIO1.Health	stVal
	CTRL.DPo8GGIO2.Health	stVal
	CTRL.Q0CSW11.Health	stVal
	CTRL.Q0XCBR1.Health	stVal
	CTRL.Q0CILO1.Health	stVal
	CTRL.Q0XCBR2.Health	stVal
	CTRL.Q0CILO2.Health	stVal
	CTRL.Q0CSW13.Health	stVal
	CTRL.Q0XCBR3.Health	stVal
	CTRL.Q0CILO3.Health	stVal
	MEAS.LLN0.Mod	stVal
	MEAS.LLN0.Beh	stVal
	MEAS.LLN0.Health	stVal
	MEAS.I_MSQI1.Health	stVal
	MEAS.V_MSQI1.Health	stVal
	MEAS.V1_MSQI1.Health	stVal
	MEAS.V2_MSQI1.Health	stVal
	DR.LLN0.Mod	stVal
	DR.LLN0.Beh	stVal
	DR.LLN0.Health	stVal
	DR.RDRE1.Mod	stVal
	DR.RDRE1.Beh	stVal
	DR.RDRE1.Health	stVal
Software Revision		
	PROT.LLN0.NamPlt	swRev
	CTRL.LLN0.NamPlt	swRev

	MEAS.LLN0.NamPlt	swRev
	DR.LLN0.NamPlt	swRev
Vendor Name		
	PROT.LLN0.NamPlt	vendor
	CTRL.LLN0.NamPlt	vendor
	MEAS.LLN0.NamPlt	vendor
	DR.LLN0.NamPlt	vendor

## 1.2 Autoreclose

Reyrolle	DOI	DA Group
In		
	PROT.A79RREC1.Mod	stVal
	PROT.A79RREC1.Beh	stVal
	PROT.A79RREC2.Mod	stVal
	PROT.A79RREC2.Beh	stVal
	PROT.A79RREC3.Mod	stVal
	PROT.A79RREC3.Beh	stVal
In Progress		
	PROT.A79RREC1.AutoRecSt	stVal
	PROT.A79RREC2.AutoRecSt	stVal
	PROT.A79RREC3.AutoRecSt	stVal
Operated		
	PROT.A79RREC1.Op	general
	PROT.A79RREC2.Op	general
	PROT.A79RREC3.Op	general
Out		
	PROT.A79RREC1.Mod	stVal
	PROT.A79RREC1.Beh	stVal
	PROT.A79RREC2.Mod	stVal
	PROT.A79RREC2.Beh	stVal
	PROT.A79RREC3.Mod	stVal
	PROT.A79RREC3.Beh	stVal
Successful		
	PROT.A79RREC1.AutoRecSt	stVal
	PROT.A79RREC2.AutoRecSt	stVal

	PROT.A79RREC3.AutoRecSt	stVal
Inhibit		
	PROT.A79RREC1.Mod	stVal
	PROT.A79RREC1.Beh	stVal
	PROT.A79RREC2.Mod	stVal
	PROT.A79RREC2.Beh	stVal
	PROT.A79RREC3.Mod	stVal
	PROT.A79RREC3.Beh	stVal

### 1.3 Binary Inputs

Reyrolle	DOI	DA Group
Binary Input 1		
	CTRL.BI33GGIO1.Ind1	stVal
Binary Input 10		
	CTRL.BI33GGIO1.Ind10	stVal
Binary Input 11		
	CTRL.BI33GGIO1.Ind11	stVal
Binary Input 12		
	CTRL.BI33GGIO1.Ind12	stVal
Binary Input 13		
	CTRL.BI33GGIO1.Ind13	stVal
Binary Input 14		
	CTRL.BI33GGIO1.Ind14	stVal
Binary Input 15		
	CTRL.BI33GGIO1.Ind15	stVal
Binary Input 16		
	CTRL.BI33GGIO1.Ind16	stVal
Binary Input 17		
	CTRL.BI33GGIO1.Ind17	stVal
Binary Input 18		
	CTRL.BI33GGIO1.Ind18	stVal
Binary Input 19		
	CTRL.BI33GGIO1.Ind19	stVal
Binary Input 2		
	CTRL.BI33GGIO1.Ind2	stVal

Binary Input 20		
	CTRL.BI33GGIO1.Ind20	stVal
Binary Input 21		
	CTRL.BI33GGIO1.Ind21	stVal
Binary Input 22		
	CTRL.BI33GGIO1.Ind22	stVal
Binary Input 23		
	CTRL.BI33GGIO1.Ind23	stVal
Binary Input 24		
	CTRL.BI33GGIO1.Ind24	stVal
Binary Input 25		
	CTRL.BI33GGIO1.Ind25	stVal
Binary Input 26		
	CTRL.BI33GGIO1.Ind26	stVal
Binary Input 27		
	CTRL.BI33GGIO1.Ind27	stVal
Binary Input 28		
	CTRL.BI33GGIO1.Ind28	stVal
Binary Input 29		
	CTRL.BI33GGIO1.Ind29	stVal
Binary Input 3		
	CTRL.BI33GGIO1.Ind3	stVal
Binary Input 30		
	CTRL.BI33GGIO1.Ind30	stVal
Binary Input 31		
	CTRL.BI33GGIO1.Ind31	stVal
Binary Input 32		
	CTRL.BI33GGIO1.Ind32	stVal
Binary Input 33		
	CTRL.BI33GGIO1.Ind33	stVal
Binary Input 4		
	CTRL.BI33GGIO1.Ind4	stVal
Binary Input 5		
	CTRL.BI33GGIO1.Ind5	stVal
Binary Input 6		
	CTRL.BI33GGIO1.Ind6	stVal

Binary Input 7		
	CTRL.BI33GGIO1.Ind7	stVal
Binary Input 8		
	CTRL.BI33GGIO1.Ind8	stVal
Binary Input 9		
	CTRL.BI33GGIO1.Ind9	stVal

## 1.4 Binary Outputs

Reyrolle	DOI	DA Group
Binary Output 1		
	CTRL.BO14GGIO1.lnd1	stVal
Binary Output 10		
	CTRL.BO14GGIO1.lnd10	stVal
Binary Output 11		
	CTRL.BO14GGIO1.lnd11	stVal
Binary Output 12		
	CTRL.BO14GGIO1.lnd12	stVal
Binary Output 13		
	CTRL.BO14GGIO1.lnd13	stVal
Binary Output 14		
	CTRL.BO14GGIO1.lnd14	stVal
Binary Output 2		
	CTRL.BO14GGIO1.lnd2	stVal
Binary Output 3		
	CTRL.BO14GGIO1.lnd3	stVal
Binary Output 4		
	CTRL.BO14GGIO1.lnd4	stVal
Binary Output 5		
	CTRL.BO14GGIO1.lnd5	stVal
Binary Output 6		
	CTRL.BO14GGIO1.lnd6	stVal
Binary Output 7		
	CTRL.BO14GGIO1.lnd7	stVal
Binary Output 8		
	CTRL.BO14GGIO1.lnd8	stVal
Binary Output 9		
	CTRL.BO14GGIO1.lnd9	stVal

## 1.5 CB

Reyrolle	DOI	DA Group
CB Control		
	CTRL.Q0CSWI1.Pos	Oper.ctlVal
CB Control Close Block		
	CTRL.Q0XCBR1.BlkCls	stVal
CB Control Open Block		
	CTRL.Q0XCBR1.BlkOpn	stVal
CB Operations Counter		
	CTRL.Q0XCBR1.OpCnt	stVal
CB Status		
	CTRL.Q0CSWI1.Pos	stVal
	CTRL.Q0XCBR1.Pos	stVal
CB Wear PhA		
	CTRL.Q0XCBR1.SumSwARs1	actVal
CB Wear PhB		
	CTRL.Q0XCBR1.SumSwARs2	actVal
CB Wear PhC		
	CTRL.Q0XCBR1.SumSwARs3	actVal
Not CB Control Close Block		
	CTRL.Q0CILO1.EnaCls	stVal
Not CB Control Open Block		
	CTRL.Q0CILO1.EnaOpn	stVal

## 1.6 CB-A

Reyrolle	DOI	DA Group
CB-A Control		
	CTRL.Q0CSWI1.Pos	Oper.ctlVal
CB-A Control Close Block		
	CTRL.Q0XCBR1.BlkCls	stVal
CB-A Control Open Block		
	CTRL.Q0XCBR1.BlkOpn	stVal
CB-A Operations Counter		
	CTRL.Q0XCBR1.OpCnt	stVal
CB-A Status		



	CTRL.Q0CSWI1.Pos	stVal
	CTRL.Q0XCBR1.Pos	stVal
CB-A Wear		
	CTRL.Q0XCBR1.SumSwARs	actVal
Not CB-A Control Close Block		
	CTRL.Q0CILO1.EnaCls	stVal
Not CB-A Control Open Block		
	CTRL.Q0CILO1.EnaOpn	stVal

## 1.7 CB-B

Reyrolle	DOI	DA Group
CB-B Control		
	CTRL.Q0CSWI2.Pos	Oper.ctlVal
CB-B Control Close Block		
	CTRL.Q0XCBR2.BlkCls	stVal
CB-B Control Open Block		
	CTRL.Q0XCBR2.BlkOpn	stVal
CB-B Operations Counter		
	CTRL.Q0XCBR2.OpCnt	stVal
CB-B Status		
	CTRL.Q0CSWI2.Pos	stVal
	CTRL.Q0XCBR2.Pos	stVal
CB-B Wear		
	CTRL.Q0XCBR2.SumSwARs	actVal
Not CB-B Control Close Block		
	CTRL.Q0CILO2.EnaCls	stVal
Not CB-B Control Open Block		
	CTRL.Q0CILO2.EnaOpn	stVal

## 1.8 CB-C

Reyrolle	DOI	DA Group
CB-C Control		
	CTRL.Q0CSWI3.Pos	Oper.ctlVal
CB-C Control Close Block		
	CTRL.Q0XCBR3.BlkCls	stVal
CB-C Control Open Block		
	CTRL.Q0XCBR3.BlkOpn	stVal
CB-C Operations Counter		
	CTRL.Q0XCBR3.OpCnt	stVal
CB-C Status		
	CTRL.Q0CSWI3.Pos	stVal
	CTRL.Q0XCBR3.Pos	stVal
CB-C Wear		
	CTRL.Q0XCBR3.SumSwARs	actVal
Not CB-C Control Close Block		
	CTRL.Q0CILO3.EnaCls	stVal
Not CB-C Control Open Block		
	CTRL.Q0CILO3.EnaOpn	stVal

## 1.9 CB FAIL

Reyrolle	DOI	DA Group
50BF Enabled		
	PROT.A50BfRBRF1.Mod	stVal
	PROT.A50BfRBRF1.Beh	stVal
50BF Pickup		
	PROT.A50BfRBRF1.Str	general
50BF-1		
	PROT.A50BfRBRF1.OpIn	general
50BF-2		
	PROT.A50BfRBRF1.OpEx	general
Inhibit 50BF		
	PROT.A50BfRBRF1.Mod	stVal
	PROT.A50BfRBRF1.Beh	stVal

## 1.10 Change Group

Reyrolle	DOI	DA Group
Active Setting Group 1		
	PROT.LLN0.SGCB	ActSG
	PROT.LLN0.SGCB	LActTm
Active Setting Group 2		
	PROT.LLN0.SGCB	ActSG
	PROT.LLN0.SGCB	LActTm
Active Setting Group 3		
	PROT.LLN0.SGCB	ActSG
	PROT.LLN0.SGCB	LActTm
Active Setting Group 4		
	PROT.LLN0.SGCB	ActSG
	PROT.LLN0.SGCB	LActTm
Number of 61850 Controllable Setting Groups		
	PROT.LLN0.SGCB	NumOfSG

## 1.11 CURRENT METERS

Reyrolle	DOI	DA Group
Current I Seq		
	MEAS.I_MSQ11.SeqA	c1.instCVal.mag.f
	MEAS.I_MSQ11.SeqA	c1.instCVal.ang.f
	MEAS.I_MSQ11.SeqA	c1.cVal.mag.f
	MEAS.I_MSQ11.SeqA	c1.cVal.ang.f
	MEAS.I_MSQ11.SeqA	c1.units.SIUnit
	MEAS.I_MSQ11.SeqA	c1.units.multiplier
Current I Seq PhB		
	MEAS.I_MSQ11.SeqA	c2.instCVal.mag.f
	MEAS.I_MSQ11.SeqA	c2.instCVal.ang.f
	MEAS.I_MSQ11.SeqA	c2.cVal.mag.f
	MEAS.I_MSQ11.SeqA	c2.cVal.ang.f
	MEAS.I_MSQ11.SeqA	c2.units.SIUnit
	MEAS.I_MSQ11.SeqA	c2.units.multiplier
Current I Seq PhC		

	MEAS.I_MSQI1.SeqA	c3.instCVal.mag.f
	MEAS.I_MSQI1.SeqA	c3.instCVal.ang.f
	MEAS.I_MSQI1.SeqA	c3.cVal.mag.f
	MEAS.I_MSQI1.SeqA	c3.cVal.ang.f
	MEAS.I_MSQI1.SeqA	c3.units.SIUnit
	MEAS.I_MSQI1.SeqA	c3.units.multiplier

## 1.12 Disturbance Recorder

Reyrolle	DOI	DA Group
Fault Number		
	DR.RDRE1.FltNum	stVal
Grid Fault Number		
	DR.RDRE1.GriFltNum	stVal
Recording Made		
	DR.RDRE1.RcdMade	stVal

## 1.13 Double Point Controls (Enhanced Security)

Reyrolle	DOI	DA Group
DPDOes 1 Control		
	CTRL.DPDOesGGIO1.DPCSO	Oper.ctlVal
DPDOes 1 Status		
	CTRL.DPDOesGGIO1.DPCSO	stVal
DPDOes 2 Control		
	CTRL.DPDOesGGIO2.DPCSO	Oper.ctlVal
DPDOes 2 Status		
	CTRL.DPDOesGGIO2.DPCSO	stVal
DPDOes 3 Control		
	CTRL.DPDOesGGIO3.DPCSO	Oper.ctlVal
DPDOes 3 Status		
	CTRL.DPDOesGGIO3.DPCSO	stVal
DPDOes 4 Control		
	CTRL.DPDOesGGIO4.DPCSO	Oper.ctlVal
DPDOes 4 Status		
	CTRL.DPDOesGGIO4.DPCSO	stVal

## 1.14 Double Point Controls (Normal Security)

Reyrolle	DOI	DA Group
DPDOns 1 Control		
	CTRL.DPDOnsGGIO1.DPCSO	Oper.ctlVal
DPDOns 1 Status		
	CTRL.DPDOnsGGIO1.DPCSO	stVal
DPDOns 2 Control		
	CTRL.DPDOnsGGIO2.DPCSO	Oper.ctlVal
DPDOns 2 Status		
	CTRL.DPDOnsGGIO2.DPCSO	stVal
DPDOns 3 Control		
	CTRL.DPDOnsGGIO3.DPCSO	Oper.ctlVal
DPDOns 3 Status		
	CTRL.DPDOnsGGIO3.DPCSO	stVal
DPDOns 4 Control		
	CTRL.DPDOnsGGIO4.DPCSO	Oper.ctlVal
DPDOns 4 Status		
	CTRL.DPDOnsGGIO4.DPCSO	stVal

## 1.15 Double Point Inputs

Reyrolle	DOI	DA Group
DPI8GGIO1 DPCSO 1		
	CTRL.DPI8GGIO1.DPCSO1	ctlVal
DPI8GGIO1 DPCSO 2		
	CTRL.DPI8GGIO1.DPCSO2	ctlVal
DPI8GGIO1 DPCSO 3		
	CTRL.DPI8GGIO1.DPCSO3	ctlVal
DPI8GGIO1 DPCSO 4		
	CTRL.DPI8GGIO1.DPCSO4	ctlVal
DPI8GGIO1 DPCSO 5		
	CTRL.DPI8GGIO1.DPCSO5	ctlVal
DPI8GGIO1 DPCSO 6		
	CTRL.DPI8GGIO1.DPCSO6	ctlVal
DPI8GGIO1 DPCSO 7		
	CTRL.DPI8GGIO1.DPCSO7	ctlVal

DPI8GGIO1 DPCSO 8		
	CTRL.DPI8GGIO1.DPCSO8	ctlVal
DPI8GGIO2 DPCSO 1		
	CTRL.DPI8GGIO2.DPCSO1	ctlVal
DPI8GGIO2 DPCSO 2		
	CTRL.DPI8GGIO2.DPCSO2	ctlVal
DPI8GGIO2 DPCSO 3		
	CTRL.DPI8GGIO2.DPCSO3	ctlVal
DPI8GGIO2 DPCSO 4		
	CTRL.DPI8GGIO2.DPCSO4	ctlVal
DPI8GGIO2 DPCSO 5		
	CTRL.DPI8GGIO2.DPCSO5	ctlVal
DPI8GGIO2 DPCSO 6		
	CTRL.DPI8GGIO2.DPCSO6	ctlVal
DPI8GGIO2 DPCSO 7		
	CTRL.DPI8GGIO2.DPCSO7	ctlVal
DPI8GGIO2 DPCSO 8		
	CTRL.DPI8GGIO2.DPCSO8	ctlVal

## 1.16 Double Point Outputs

Reyrolle	DOI	DA Group
DPo8GGIO1 Ind 1		
	CTRL.DPo8GGIO1.DPCSO1	stVal
DPo8GGIO1 Ind 2		
	CTRL.DPo8GGIO1.DPCSO2	stVal
DPo8GGIO1 Ind 3		
	CTRL.DPo8GGIO1.DPCSO3	stVal
DPo8GGIO1 Ind 4		
	CTRL.DPo8GGIO1.DPCSO4	stVal
DPo8GGIO1 Ind 5		
	CTRL.DPo8GGIO1.DPCSO5	stVal
DPo8GGIO1 Ind 6		
	CTRL.DPo8GGIO1.DPCSO6	stVal
DPo8GGIO1 Ind 7		
	CTRL.DPo8GGIO1.DPCSO7	stVal

DPo8GGIO1 Ind 8		
	CTRL.DPo8GGIO1.DPCSO8	stVal
DPo8GGIO2 Ind 1		
	CTRL.DPo8GGIO2.DPCSO1	stVal
DPo8GGIO2 Ind 2		
	CTRL.DPo8GGIO2.DPCSO2	stVal
DPo8GGIO2 Ind 3		
	CTRL.DPo8GGIO2.DPCSO3	stVal
DPo8GGIO2 Ind 4		
	CTRL.DPo8GGIO2.DPCSO4	stVal
DPo8GGIO2 Ind 5		
	CTRL.DPo8GGIO2.DPCSO5	stVal
DPo8GGIO2 Ind 6		
	CTRL.DPo8GGIO2.DPCSO6	stVal
DPo8GGIO2 Ind 7		
	CTRL.DPo8GGIO2.DPCSO7	stVal
DPo8GGIO2 Ind 8		
	CTRL.DPo8GGIO2.DPCSO8	stVal

## 1.17 Fault Locator

Reyrolle	DOI	DA Group
Fault Distance in km		
	PROT.RFLO1.FItDiskm	mag.f
Fault Impedance		
	PROT.RFLO1.FItZ	cVal

## 1.18 General Trip Information

Reyrolle	DOI	DA Group
CB Trip		
	PROT.PTRC1.Tr	general
CB Trip Count		
	PROT.PTRC1.OpCntRs	stVal
General Operate		
	PROT.PTRC1.Op	general
General Pickup		
	PROT.PTRC1.Str	general
	PROT.PTRC1.Str	dirGeneral
General Pickup & Fwd Direction		
	PROT.PTRC1.Str	dirGeneral
General Pickup & Rev Direction		
	PROT.PTRC1.Str	dirGeneral
Set CB Trip Count		
	PROT.PTRC1.OpCntRs	Oper.ctlVal
General PhA Pickup		
	PROT.PTRC1.Str	phsA
CB Neut Trip		
	PROT.PTRC1.Tr	neut
CB PhA Trip		
	PROT.PTRC1.Tr	phsA
CB PhB Trip		
	PROT.PTRC1.Tr	phsB
CB PhC Trip		
	PROT.PTRC1.Tr	phsC
CB Trip		
	PROT.PTRC1.Tr	general
General Neut Operate		
	PROT.PTRC1.Op	neut
General Neut Pickup		
	PROT.PTRC1.Str	neut
	PROT.PTRC1.Str	dirNeut
General Neut Pickup & Fwd Direction		



	PROT.PTRC1.Str	dirNeut
General Neut Pickup & Rev Direction		
	PROT.PTRC1.Str	dirNeut
General PhA Operate		
	PROT.PTRC1.Op	phsA
General PhA Pickup		
	PROT.PTRC1.Str	phsA
	PROT.PTRC1.Str	dirPhsA
General PhA Pickup & Fwd Direction		
	PROT.PTRC1.Str	dirPhsA
General PhA Pickup & Rev Direction		
	PROT.PTRC1.Str	dirPhsA
General PhB Operate		
	PROT.PTRC1.Op	phsB
General PhB Pickup		
	PROT.PTRC1.Str	phsB
	PROT.PTRC1.Str	dirPhsB
General PhB Pickup & Fwd Direction		
	PROT.PTRC1.Str	dirPhsB
General PhB Pickup & Rev Direction		
	PROT.PTRC1.Str	dirPhsB
General PhC Operate		
	PROT.PTRC1.Op	phsC
General PhC Pickup		
	PROT.PTRC1.Str	phsC
	PROT.PTRC1.Str	dirPhsC
General PhC Pickup & Fwd Direction		
	PROT.PTRC1.Str	dirPhsC
General PhC Pickup & Rev Direction		
	PROT.PTRC1.Str	dirPhsC

## 1.19 LEDs

Reyrolle	DOI	DA Group
LED 1		
	CTRL.L28GGIO1.Ind1	stVal
LED 10		
	CTRL.L28GGIO1.Ind10	stVal
LED 11		
	CTRL.L28GGIO1.Ind11	stVal
LED 12		
	CTRL.L28GGIO1.Ind12	stVal
LED 13		
	CTRL.L28GGIO1.Ind13	stVal
LED 14		
	CTRL.L28GGIO1.Ind14	stVal
LED 15		
	CTRL.L28GGIO1.Ind15	stVal
LED 16		
	CTRL.L28GGIO1.Ind16	stVal
LED 17		
	CTRL.L28GGIO1.Ind17	stVal
LED 18		
	CTRL.L28GGIO1.Ind18	stVal
LED 19		
	CTRL.L28GGIO1.Ind19	stVal
LED 2		
	CTRL.L28GGIO1.Ind2	stVal
LED 20		
	CTRL.L28GGIO1.Ind20	stVal
LED 21		
	CTRL.L28GGIO1.Ind21	stVal
LED 22		
	CTRL.L28GGIO1.Ind22	stVal
LED 23		
	CTRL.L28GGIO1.Ind23	stVal
LED 24		
	CTRL.L28GGIO1.Ind24	stVal

LED 25		
	CTRL.L28GGIO1.Ind25	stVal
LED 26		
	CTRL.L28GGIO1.Ind26	stVal
LED 27		
	CTRL.L28GGIO1.Ind27	stVal
LED 28		
	CTRL.L28GGIO1.Ind28	stVal
LED 3		
	CTRL.L28GGIO1.Ind3	stVal
LED 4		
	CTRL.L28GGIO1.Ind4	stVal
LED 5		
	CTRL.L28GGIO1.Ind5	stVal
LED 6		
	CTRL.L28GGIO1.Ind6	stVal
LED 7		
	CTRL.L28GGIO1.Ind7	stVal
LED 8		
	CTRL.L28GGIO1.Ind8	stVal
LED 9		
	CTRL.L28GGIO1.Ind9	stVal

## 1.20 MEASURED EARTH FAULT

Reyrolle	DOI	DA Group
50G-1 Dir Pickup		
	PROT.A50gPTOC1.Str	dirGeneral
50G-1 Enabled		
	PROT.A50gPTOC1.Mod	stVal
	PROT.A50gPTOC1.Beh	stVal
50G-1 Operated		
	PROT.A50gPTOC1.Op	general
50G-1 Pickup		
	PROT.A50gPTOC1.Str	general
50G-2 Dir Pickup		

	PROT.A50gPTOC2.Str	dirGeneral
50G-2 Enabled		
	PROT.A50gPTOC2.Mod	stVal
	PROT.A50gPTOC2.Beh	stVal
50G-2 Operated		
	PROT.A50gPTOC2.Op	general
50G-2 Pickup		
	PROT.A50gPTOC2.Str	general
50G-3 Dir Pickup		
	PROT.A50gPTOC3.Str	dirGeneral
50G-3 Enabled		
	PROT.A50gPTOC3.Mod	stVal
	PROT.A50gPTOC3.Beh	stVal
50G-3 Operated		
	PROT.A50gPTOC3.Op	general
50G-3 Pickup		
	PROT.A50gPTOC3.Str	general
50G-4 Dir Pickup		
	PROT.A50gPTOC4.Str	dirGeneral
50G-4 Enabled		
	PROT.A50gPTOC4.Mod	stVal
	PROT.A50gPTOC4.Beh	stVal
50G-4 Operated		
	PROT.A50gPTOC4.Op	general
50G-4 Pickup		
	PROT.A50gPTOC4.Str	general
51G-1 Dir Pickup		
	PROT.A51gPTOC1.Str	dirGeneral
51G-1 Enabled		
	PROT.A51gPTOC1.Mod	stVal
	PROT.A51gPTOC1.Beh	stVal
51G-1 Operated		
	PROT.A51gPTOC1.Op	general
51G-1 Pickup		
	PROT.A51gPTOC1.Str	general
51G-2 Dir Pickup		

	PROT.A51gPTOC2.Str	dirGeneral
51G-2 Enabled		
	PROT.A51gPTOC2.Mod	stVal
	PROT.A51gPTOC2.Beh	stVal
51G-2 Operated		
	PROT.A51gPTOC2.Op	general
51G-2 Pickup		
	PROT.A51gPTOC2.Str	general
51G-3 Dir Pickup		
	PROT.A51gPTOC3.Str	dirGeneral
51G-3 Enabled		
	PROT.A51gPTOC3.Mod	stVal
	PROT.A51gPTOC3.Beh	stVal
51G-3 Operated		
	PROT.A51gPTOC3.Op	general
51G-3 Pickup		
	PROT.A51gPTOC3.Str	general
51G-4 Dir Pickup		
	PROT.A51gPTOC4.Str	dirGeneral
51G-4 Enabled		
	PROT.A51gPTOC4.Mod	stVal
	PROT.A51gPTOC4.Beh	stVal
51G-4 Operated		
	PROT.A51gPTOC4.Op	general
51G-4 Pickup		
	PROT.A51gPTOC4.Str	general
Inhibit 50G-1		
	PROT.A50gPTOC1.Mod	stVal
	PROT.A50gPTOC1.Beh	stVal
Inhibit 50G-2		
	PROT.A50gPTOC2.Mod	stVal
	PROT.A50gPTOC2.Beh	stVal
Inhibit 50G-3		
	PROT.A50gPTOC3.Mod	stVal
	PROT.A50gPTOC3.Beh	stVal
Inhibit 50G-4		

	PROT.A50gPTOC4.Mod	stVal
	PROT.A50gPTOC4.Beh	stVal
Inhibit 51G-1		
	PROT.A51gPTOC1.Mod	stVal
	PROT.A51gPTOC1.Beh	stVal
Inhibit 51G-2		
	PROT.A51gPTOC2.Mod	stVal
	PROT.A51gPTOC2.Beh	stVal
Inhibit 51G-3		
	PROT.A51gPTOC3.Mod	stVal
	PROT.A51gPTOC3.Beh	stVal
Inhibit 51G-4		
	PROT.A51gPTOC4.Mod	stVal
	PROT.A51gPTOC4.Beh	stVal

## 1.21 NEUTRAL OVERVOLTAGE

Reyrolle	DOI	DA Group
59NDT Enabled		
	PROT.A59nDtPTOV1.Mod	stVal
	PROT.A59nDtPTOV1.Beh	stVal
59NDT Operated		
	PROT.A59nDtPTOV1.Op	general
59NDT Pickup		
	PROT.A59nDtPTOV1.Str	general
59NIT Enabled		
	PROT.A59nItPTOV1.Mod	stVal
	PROT.A59nItPTOV1.Beh	stVal
59NIT Operated		
	PROT.A59nItPTOV1.Op	general
59NIT Pickup		
	PROT.A59nItPTOV1.Str	general
Inhibit 59NDT		
	PROT.A59nDtPTOV1.Mod	stVal
	PROT.A59nDtPTOV1.Beh	stVal
Inhibit 59NIT		

	PROT.A59nltPTOV1.Mod	stVal
	PROT.A59nltPTOV1.Beh	stVal

## 1.22 NPS OVERCURRENT

Reyrolle	DOI	DA Group
46DT Enabled		
	PROT.A46DtPTOC1.Mod	stVal
	PROT.A46DtPTOC1.Beh	stVal
46DT Operated		
	PROT.A46DtPTOC1.Op	general
46DT Pickup		
	PROT.A46DtPTOC1.Str	general
46IT Enabled		
	PROT.A46ItPTOC1.Mod	stVal
	PROT.A46ItPTOC1.Beh	stVal
46IT Operated		
	PROT.A46ItPTOC1.Op	general
46IT Pickup		
	PROT.A46ItPTOC1.Str	general
Inhibit 46DT		
	PROT.A46DtPTOC1.Mod	stVal
	PROT.A46DtPTOC1.Beh	stVal
Inhibit 46IT		
	PROT.A46ItPTOC1.Mod	stVal
	PROT.A46ItPTOC1.Beh	stVal

## 1.23 NPS OVERVOLTAGE

Reyrolle	DOI	DA Group
47-1 Enabled		
	PROT.A47PTOV1.Mod	stVal
	PROT.A47PTOV1.Beh	stVal
47-1 Operated		
	PROT.A47PTOV1.Op	general
47-1 Pickup		
	PROT.A47PTOV1.Str	general
47-2 Enabled		
	PROT.A47PTOV2.Mod	stVal
	PROT.A47PTOV2.Beh	stVal
47-2 Operated		
	PROT.A47PTOV2.Op	general
47-2 Pickup		
	PROT.A47PTOV2.Str	general
Inhibit 47-1		
	PROT.A47PTOV1.Mod	stVal
	PROT.A47PTOV1.Beh	stVal
Inhibit 47-2		
	PROT.A47PTOV2.Mod	stVal
	PROT.A47PTOV2.Beh	stVal



## 1.24 OVERCURRENT

Reyrolle	DOI	DA Group
50-1 Enabled		
	PROT.A50PTOC1.Mod	stVal
	PROT.A50PTOC1.Beh	stVal
50-1 Operated		
	PROT.A50PTOC1.Op	general
50-1 PhA Dir Pickup		
	PROT.A50PTOC1.Str	dirGeneral
	PROT.A50PTOC1.Str	dirPhsA
50-1 PhA Pickup		
	PROT.A50PTOC1.Str	general
	PROT.A50PTOC1.Str	phsA
50-1 PhB Dir Pickup		
	PROT.A50PTOC1.Str	dirGeneral
	PROT.A50PTOC1.Str	dirPhsB
50-1 PhB Pickup		
	PROT.A50PTOC1.Str	general
	PROT.A50PTOC1.Str	phsB
50-1 PhC Dir Pickup		
	PROT.A50PTOC1.Str	dirGeneral
	PROT.A50PTOC1.Str	dirPhsC
50-1 PhC Pickup		
	PROT.A50PTOC1.Str	general
	PROT.A50PTOC1.Str	phsC
50-2 Enabled		
	PROT.A50PTOC2.Mod	stVal
	PROT.A50PTOC2.Beh	stVal
50-2 Operated		
	PROT.A50PTOC2.Op	general
50-2 PhA Dir Pickup		
	PROT.A50PTOC2.Str	dirGeneral
	PROT.A50PTOC2.Str	dirPhsA
50-2 PhA Pickup		
	PROT.A50PTOC2.Str	general
	PROT.A50PTOC2.Str	phsA

50-2 PhB Dir Pickup		
	PROT.A50PTOC2.Str	dirGeneral
	PROT.A50PTOC2.Str	dirPhsB
50-2 PhB Pickup		
	PROT.A50PTOC2.Str	general
	PROT.A50PTOC2.Str	phsB
50-2 PhC Dir Pickup		
	PROT.A50PTOC2.Str	dirGeneral
	PROT.A50PTOC2.Str	dirPhsC
50-2 PhC Pickup		
	PROT.A50PTOC2.Str	general
	PROT.A50PTOC2.Str	phsC
50-3 Enabled		
	PROT.A50PTOC3.Mod	stVal
	PROT.A50PTOC3.Beh	stVal
50-3 Operated		
	PROT.A50PTOC3.Op	general
50-3 PhA Dir Pickup		
	PROT.A50PTOC3.Str	dirGeneral
	PROT.A50PTOC3.Str	dirPhsA
50-3 PhA Pickup		
	PROT.A50PTOC3.Str	general
	PROT.A50PTOC3.Str	phsA
50-3 PhB Dir Pickup		
	PROT.A50PTOC3.Str	dirGeneral
	PROT.A50PTOC3.Str	dirPhsB
50-3 PhB Pickup		
	PROT.A50PTOC3.Str	general
	PROT.A50PTOC3.Str	phsB
50-3 PhC Dir Pickup		
	PROT.A50PTOC3.Str	dirGeneral
	PROT.A50PTOC3.Str	dirPhsC
50-3 PhC Pickup		
	PROT.A50PTOC3.Str	general
	PROT.A50PTOC3.Str	phsC
50-4 Enabled		

	PROT.A50PTOC4.Mod	stVal
	PROT.A50PTOC4.Beh	stVal
50-4 Operated		
	PROT.A50PTOC4.Op	general
50-4 PhA Dir Pickup		
	PROT.A50PTOC4.Str	dirGeneral
	PROT.A50PTOC4.Str	dirPhsA
50-4 PhA Pickup		
	PROT.A50PTOC4.Str	general
	PROT.A50PTOC4.Str	phsA
50-4 PhB Dir Pickup		
	PROT.A50PTOC4.Str	dirGeneral
	PROT.A50PTOC4.Str	dirPhsB
50-4 PhB Pickup		
	PROT.A50PTOC4.Str	general
	PROT.A50PTOC4.Str	phsB
50-4 PhC Dir Pickup		
	PROT.A50PTOC4.Str	dirGeneral
	PROT.A50PTOC4.Str	dirPhsC
50-4 PhC Pickup		
	PROT.A50PTOC4.Str	general
	PROT.A50PTOC4.Str	phsC
51-1 Enabled		
	PROT.A51PTOC1.Mod	stVal
	PROT.A51PTOC1.Beh	stVal
51-1 Operated		
	PROT.A51PTOC1.Op	general
51-1 PhA Dir Pickup		
	PROT.A51PTOC1.Str	dirGeneral
	PROT.A51PTOC1.Str	dirPhsA
51-1 PhA Pickup		
	PROT.A51PTOC1.Str	general
	PROT.A51PTOC1.Str	phsA
51-1 PhB Dir Pickup		
	PROT.A51PTOC1.Str	dirGeneral
	PROT.A51PTOC1.Str	dirPhsB

51-1 PhB Pickup		
	PROT.A51PTOC1.Str	general
	PROT.A51PTOC1.Str	phsB
51-1 PhC Dir Pickup		
	PROT.A51PTOC1.Str	dirGeneral
	PROT.A51PTOC1.Str	dirPhsC
51-1 PhC Pickup		
	PROT.A51PTOC1.Str	general
	PROT.A51PTOC1.Str	phsC
51-2 Enabled		
	PROT.A51PTOC2.Mod	stVal
	PROT.A51PTOC2.Beh	stVal
51-2 Operated		
	PROT.A51PTOC2.Op	general
51-2 PhA Dir Pickup		
	PROT.A51PTOC2.Str	dirGeneral
	PROT.A51PTOC2.Str	dirPhsA
51-2 PhA Pickup		
	PROT.A51PTOC2.Str	general
	PROT.A51PTOC2.Str	phsA
51-2 PhB Dir Pickup		
	PROT.A51PTOC2.Str	dirGeneral
	PROT.A51PTOC2.Str	dirPhsB
51-2 PhB Pickup		
	PROT.A51PTOC2.Str	general
	PROT.A51PTOC2.Str	phsB
51-2 PhC Dir Pickup		
	PROT.A51PTOC2.Str	dirGeneral
	PROT.A51PTOC2.Str	dirPhsC
51-2 PhC Pickup		
	PROT.A51PTOC2.Str	general
	PROT.A51PTOC2.Str	phsC
51-3 Enabled		
	PROT.A51PTOC3.Mod	stVal
	PROT.A51PTOC3.Beh	stVal
51-3 Operated		

	PROT.A51PTOC3.Op	general
51-3 PhA Dir Pickup		
	PROT.A51PTOC3.Str	dirGeneral
	PROT.A51PTOC3.Str	dirPhsA
51-3 PhA Pickup		
	PROT.A51PTOC3.Str	general
	PROT.A51PTOC3.Str	phsA
51-3 PhB Dir Pickup		
	PROT.A51PTOC3.Str	dirGeneral
	PROT.A51PTOC3.Str	dirPhsB
51-3 PhB Pickup		
	PROT.A51PTOC3.Str	general
	PROT.A51PTOC3.Str	phsB
51-3 PhC Dir Pickup		
	PROT.A51PTOC3.Str	dirGeneral
	PROT.A51PTOC3.Str	dirPhsC
51-3 PhC Pickup		
	PROT.A51PTOC3.Str	general
	PROT.A51PTOC3.Str	phsC
51-4 Enabled		
	PROT.A51PTOC4.Mod	stVal
	PROT.A51PTOC4.Beh	stVal
51-4 Operated		
	PROT.A51PTOC4.Op	general
51-4 PhA Dir Pickup		
	PROT.A51PTOC4.Str	dirGeneral
	PROT.A51PTOC4.Str	dirPhsA
51-4 PhA Pickup		
	PROT.A51PTOC4.Str	general
	PROT.A51PTOC4.Str	phsA
51-4 PhB Dir Pickup		
	PROT.A51PTOC4.Str	dirGeneral
	PROT.A51PTOC4.Str	dirPhsB
51-4 PhB Pickup		
	PROT.A51PTOC4.Str	general
	PROT.A51PTOC4.Str	phsB

51-4 PhC Dir Pickup		
	PROT.A51PTOC4.Str	dirGeneral
	PROT.A51PTOC4.Str	dirPhsC
51-4 PhC Pickup		
	PROT.A51PTOC4.Str	general
	PROT.A51PTOC4.Str	phsC
Inhibit 50-1		
	PROT.A50PTOC1.Mod	stVal
	PROT.A50PTOC1.Beh	stVal
Inhibit 50-2		
	PROT.A50PTOC2.Mod	stVal
	PROT.A50PTOC2.Beh	stVal
Inhibit 50-3		
	PROT.A50PTOC3.Mod	stVal
	PROT.A50PTOC3.Beh	stVal
Inhibit 50-4		
	PROT.A50PTOC4.Mod	stVal
	PROT.A50PTOC4.Beh	stVal
Inhibit 51-1		
	PROT.A51PTOC1.Mod	stVal
	PROT.A51PTOC1.Beh	stVal
Inhibit 51-2		
	PROT.A51PTOC2.Mod	stVal
	PROT.A51PTOC2.Beh	stVal
Inhibit 51-3		
	PROT.A51PTOC3.Mod	stVal
	PROT.A51PTOC3.Beh	stVal
Inhibit 51-4		
	PROT.A51PTOC4.Mod	stVal
	PROT.A51PTOC4.Beh	stVal

## 1.25 PHASE U/O VOLTAGE

Reyrolle	DOI	DA Group
27/59-1 Enabled		
	PROT.A2759PTOV1.Mod	stVal
	PROT.A2759PTOV1.Beh	stVal
	PROT.A2759PTUV1.Mod	stVal
	PROT.A2759PTUV1.Beh	stVal
27/59-1 Operated		
	PROT.A2759PTOV1.Op	general
	PROT.A2759PTUV1.Op	general
27/59-1 PhA Pickup		
	PROT.A2759PTOV1.Str	general
	PROT.A2759PTOV1.Str	phsA
	PROT.A2759PTUV1.Str	general
	PROT.A2759PTUV1.Str	phsA
27/59-1 PhB Pickup		
	PROT.A2759PTOV1.Str	general
	PROT.A2759PTOV1.Str	phsB
	PROT.A2759PTUV1.Str	general
	PROT.A2759PTUV1.Str	phsB
27/59-1 PhC Pickup		
	PROT.A2759PTOV1.Str	general
	PROT.A2759PTOV1.Str	phsC
	PROT.A2759PTUV1.Str	general
	PROT.A2759PTUV1.Str	phsC
27/59-2 Enabled		
	PROT.A2759PTOV2.Mod	stVal
	PROT.A2759PTOV2.Beh	stVal
	PROT.A2759PTUV2.Mod	stVal
	PROT.A2759PTUV2.Beh	stVal
27/59-2 Operated		
	PROT.A2759PTOV2.Op	general
	PROT.A2759PTUV2.Op	general
27/59-2 PhA Pickup		
	PROT.A2759PTOV2.Str	general
	PROT.A2759PTOV2.Str	phsA

	PROT.A2759PTUV2.Str	general
	PROT.A2759PTUV2.Str	phsA
27/59-2 PhB Pickup		
	PROT.A2759PTOV2.Str	general
	PROT.A2759PTOV2.Str	phsB
	PROT.A2759PTUV2.Str	general
	PROT.A2759PTUV2.Str	phsB
27/59-2 PhC Pickup		
	PROT.A2759PTOV2.Str	general
	PROT.A2759PTOV2.Str	phsC
	PROT.A2759PTUV2.Str	general
	PROT.A2759PTUV2.Str	phsC
27/59-3 Enabled		
	PROT.A2759PTOV3.Mod	stVal
	PROT.A2759PTOV3.Beh	stVal
	PROT.A2759PTUV3.Mod	stVal
	PROT.A2759PTUV3.Beh	stVal
27/59-3 Operated		
	PROT.A2759PTOV3.Op	general
	PROT.A2759PTUV3.Op	general
27/59-3 PhA Pickup		
	PROT.A2759PTOV3.Str	general
	PROT.A2759PTOV3.Str	phsA
	PROT.A2759PTUV3.Str	general
	PROT.A2759PTUV3.Str	phsA
27/59-3 PhB Pickup		
	PROT.A2759PTOV3.Str	general
	PROT.A2759PTOV3.Str	phsB
	PROT.A2759PTUV3.Str	general
	PROT.A2759PTUV3.Str	phsB
27/59-3 PhC Pickup		
	PROT.A2759PTOV3.Str	general
	PROT.A2759PTOV3.Str	phsC
	PROT.A2759PTUV3.Str	general
	PROT.A2759PTUV3.Str	phsC
27/59-4 Enabled		



	PROT.A2759PTOV4.Mod	stVal
	PROT.A2759PTOV4.Beh	stVal
	PROT.A2759PTUV4.Mod	stVal
	PROT.A2759PTUV4.Beh	stVal
27/59-4 Operated		
	PROT.A2759PTOV4.Op	general
	PROT.A2759PTUV4.Op	general
27/59-4 PhA Pickup		
	PROT.A2759PTOV4.Str	general
	PROT.A2759PTOV4.Str	phsA
	PROT.A2759PTUV4.Str	general
	PROT.A2759PTUV4.Str	phsA
27/59-4 PhB Pickup		
	PROT.A2759PTOV4.Str	general
	PROT.A2759PTOV4.Str	phsB
	PROT.A2759PTUV4.Str	general
	PROT.A2759PTUV4.Str	phsB
27/59-4 PhC Pickup		
	PROT.A2759PTOV4.Str	general
	PROT.A2759PTOV4.Str	phsC
	PROT.A2759PTUV4.Str	general
	PROT.A2759PTUV4.Str	phsC
Inhibit 27/59-1		
	PROT.A2759PTOV1.Mod	stVal
	PROT.A2759PTOV1.Beh	stVal
	PROT.A2759PTUV1.Mod	stVal
	PROT.A2759PTUV1.Beh	stVal
Inhibit 27/59-2		
	PROT.A2759PTOV2.Mod	stVal
	PROT.A2759PTOV2.Beh	stVal
	PROT.A2759PTUV2.Mod	stVal
	PROT.A2759PTUV2.Beh	stVal
Inhibit 27/59-3		
	PROT.A2759PTOV3.Mod	stVal
	PROT.A2759PTOV3.Beh	stVal
	PROT.A2759PTUV3.Mod	stVal

	PROT.A2759PTUV3.Beh	stVal
Inhibit 27/59-4		
	PROT.A2759PTOV4.Mod	stVal
	PROT.A2759PTOV4.Beh	stVal
	PROT.A2759PTUV4.Mod	stVal
	PROT.A2759PTUV4.Beh	stVal

## 1.26 QuickLogic Equations

Reyrolle	DOI	DA Group
Quick Logic Equation 1		
	CTRL.E16GGIO1.Ind1	stVal
Quick Logic Equation 10		
	CTRL.E16GGIO1.Ind10	stVal
Quick Logic Equation 11		
	CTRL.E16GGIO1.Ind11	stVal
Quick Logic Equation 12		
	CTRL.E16GGIO1.Ind12	stVal
Quick Logic Equation 13		
	CTRL.E16GGIO1.Ind13	stVal
Quick Logic Equation 14		
	CTRL.E16GGIO1.Ind14	stVal
Quick Logic Equation 15		
	CTRL.E16GGIO1.Ind15	stVal
Quick Logic Equation 16		
	CTRL.E16GGIO1.Ind16	stVal
Quick Logic Equation 2		
	CTRL.E16GGIO1.Ind2	stVal
Quick Logic Equation 3		
	CTRL.E16GGIO1.Ind3	stVal
Quick Logic Equation 4		
	CTRL.E16GGIO1.Ind4	stVal
Quick Logic Equation 5		
	CTRL.E16GGIO1.Ind5	stVal
Quick Logic Equation 6		
	CTRL.E16GGIO1.Ind6	stVal

Quick Logic Equation 7		
	CTRL.E16GGIO1.Ind7	stVal
Quick Logic Equation 8		
	CTRL.E16GGIO1.Ind8	stVal
Quick Logic Equation 9		
	CTRL.E16GGIO1.Ind9	stVal

## 1.27 RESTRICTED EARTH FAULT

Reyrolle	DOI	DA Group
64H Enabled		
	PROT.A64hPTOC1.Mod	stVal
	PROT.A64hPTOC1.Beh	stVal
64H Operated		
	PROT.A64hPTOC1.Op	general
64H Pickup		
	PROT.A64hPTOC1.Str	general
Inhibit 64H		
	PROT.A64hPTOC1.Mod	stVal
	PROT.A64hPTOC1.Beh	stVal

## 1.28 SENSITIVE EARTH FAULT

Reyrolle	DOI	DA Group
50SEF-1 Dir Pickup		
	PROT.A50SefPTOC1.Str	dirGeneral
50SEF-1 Enabled		
	PROT.A50SefPTOC1.Mod	stVal
	PROT.A50SefPTOC1.Beh	stVal
50SEF-1 Operated		
	PROT.A50SefPTOC1.Op	general
50SEF-1 Pickup		
	PROT.A50SefPTOC1.Str	general
50SEF-2 Dir Pickup		
	PROT.A50SefPTOC2.Str	dirGeneral
50SEF-2 Enabled		

	PROT.A50SefPTOC2.Mod	stVal
	PROT.A50SefPTOC2.Beh	stVal
50SEF-2 Operated		
	PROT.A50SefPTOC2.Op	general
50SEF-2 Pickup		
	PROT.A50SefPTOC2.Str	general
50SEF-3 Dir Pickup		
	PROT.A50SefPTOC3.Str	dirGeneral
50SEF-3 Enabled		
	PROT.A50SefPTOC3.Mod	stVal
	PROT.A50SefPTOC3.Beh	stVal
50SEF-3 Operated		
	PROT.A50SefPTOC3.Op	general
50SEF-3 Pickup		
	PROT.A50SefPTOC3.Str	general
50SEF-4 Dir Pickup		
	PROT.A50SefPTOC4.Str	dirGeneral
50SEF-4 Enabled		
	PROT.A50SefPTOC4.Mod	stVal
	PROT.A50SefPTOC4.Beh	stVal
50SEF-4 Operated		
	PROT.A50SefPTOC4.Op	general
50SEF-4 Pickup		
	PROT.A50SefPTOC4.Str	general
51SEF-1 Dir Pickup		
	PROT.A51SefPTOC1.Str	dirGeneral
51SEF-1 Enabled		
	PROT.A51SefPTOC1.Mod	stVal
	PROT.A51SefPTOC1.Beh	stVal
51SEF-1 Operated		
	PROT.A51SefPTOC1.Op	general
51SEF-1 Pickup		
	PROT.A51SefPTOC1.Str	general
51SEF-2 Dir Pickup		
	PROT.A51SefPTOC2.Str	dirGeneral
51SEF-2 Enabled		

	PROT.A51SefPTOC2.Mod	stVal
	PROT.A51SefPTOC2.Beh	stVal
51SEF-2 Operated		
	PROT.A51SefPTOC2.Op	general
51SEF-2 Pickup		
	PROT.A51SefPTOC2.Str	general
51SEF-3 Dir Pickup		
	PROT.A51SefPTOC3.Str	dirGeneral
51SEF-3 Enabled		
	PROT.A51SefPTOC3.Mod	stVal
	PROT.A51SefPTOC3.Beh	stVal
51SEF-3 Operated		
	PROT.A51SefPTOC3.Op	general
51SEF-3 Pickup		
	PROT.A51SefPTOC3.Str	general
51SEF-4 Dir Pickup		
	PROT.A51SefPTOC4.Str	dirGeneral
51SEF-4 Enabled		
	PROT.A51SefPTOC4.Mod	stVal
	PROT.A51SefPTOC4.Beh	stVal
51SEF-4 Operated		
	PROT.A51SefPTOC4.Op	general
51SEF-4 Pickup		
	PROT.A51SefPTOC4.Str	general
Inhibit 50SEF-1		
	PROT.A50SefPTOC1.Mod	stVal
	PROT.A50SefPTOC1.Beh	stVal
Inhibit 50SEF-2		
	PROT.A50SefPTOC2.Mod	stVal
	PROT.A50SefPTOC2.Beh	stVal
Inhibit 50SEF-3		
	PROT.A50SefPTOC3.Mod	stVal
	PROT.A50SefPTOC3.Beh	stVal
Inhibit 50SEF-4		
	PROT.A50SefPTOC4.Mod	stVal
	PROT.A50SefPTOC4.Beh	stVal

Inhibit 51SEF-1		
	PROT.A51SefPTOC1.Mod	stVal
	PROT.A51SefPTOC1.Beh	stVal
Inhibit 51SEF-2		
	PROT.A51SefPTOC2.Mod	stVal
	PROT.A51SefPTOC2.Beh	stVal
Inhibit 51SEF-3		
	PROT.A51SefPTOC3.Mod	stVal
	PROT.A51SefPTOC3.Beh	stVal
Inhibit 51SEF-4		
	PROT.A51SefPTOC4.Mod	stVal
	PROT.A51SefPTOC4.Beh	stVal

### 1.29 Single Point Controls (Enhanced Security)

Reyrolle	DOI	DA Group
SPDOes 1 Control		
	CTRL.SPDOesGGIO1.SPCSO	Oper.ctlVal
SPDOes 1 Status		
	CTRL.SPDOesGGIO1.SPCSO	stVal
SPDOes 2 Control		
	CTRL.SPDOesGGIO2.SPCSO	Oper.ctlVal
SPDOes 2 Status		
	CTRL.SPDOesGGIO2.SPCSO	stVal
SPDOes 3 Control		
	CTRL.SPDOesGGIO3.SPCSO	Oper.ctlVal
SPDOes 3 Status		
	CTRL.SPDOesGGIO3.SPCSO	stVal
SPDOes 4 Control		
	CTRL.SPDOesGGIO4.SPCSO	Oper.ctlVal
SPDOes 4 Status		
	CTRL.SPDOesGGIO4.SPCSO	stVal

### 1.30 Single Point Controls (Normal Security)

Reyrolle	DOI	DA Group
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SPDOs 1 Control		
	CTRL.SPDOsGGIO1.SPCSO	Oper.ctlVal
SPDOs 1 Status		
	CTRL.SPDOsGGIO1.SPCSO	stVal
SPDOs 2 Control		
	CTRL.SPDOsGGIO2.SPCSO	Oper.ctlVal
SPDOs 2 Status		
	CTRL.SPDOsGGIO2.SPCSO	stVal
SPDOs 3 Control		
	CTRL.SPDOsGGIO3.SPCSO	Oper.ctlVal
SPDOs 3 Status		
	CTRL.SPDOsGGIO3.SPCSO	stVal
SPDOs 4 Control		
	CTRL.SPDOsGGIO4.SPCSO	Oper.ctlVal
SPDOs 4 Status		
	CTRL.SPDOsGGIO4.SPCSO	stVal

### 1.31 Single Point Inputs

Reyrolle	DOI	DA Group
SPi64GGIO1 SPCSO 1		
	CTRL.SPi64GGIO1.SPCSO1	ctlVal
SPi64GGIO1 SPCSO 10		
	CTRL.SPi64GGIO1.SPCSO10	ctlVal
SPi64GGIO1 SPCSO 11		
	CTRL.SPi64GGIO1.SPCSO11	ctlVal
SPi64GGIO1 SPCSO 12		
	CTRL.SPi64GGIO1.SPCSO12	ctlVal
SPi64GGIO1 SPCSO 13		
	CTRL.SPi64GGIO1.SPCSO13	ctlVal
SPi64GGIO1 SPCSO 14		
	CTRL.SPi64GGIO1.SPCSO14	ctlVal
SPi64GGIO1 SPCSO 15		
	CTRL.SPi64GGIO1.SPCSO15	ctlVal
SPi64GGIO1 SPCSO 16		
	CTRL.SPi64GGIO1.SPCSO16	ctlVal

SPI64GGIO1 SPCSO 17		
	CTRL.SPI64GGIO1.SPCSO17	ctlVal
SPI64GGIO1 SPCSO 18		
	CTRL.SPI64GGIO1.SPCSO18	ctlVal
SPI64GGIO1 SPCSO 19		
	CTRL.SPI64GGIO1.SPCSO19	ctlVal
SPI64GGIO1 SPCSO 2		
	CTRL.SPI64GGIO1.SPCSO2	ctlVal
SPI64GGIO1 SPCSO 20		
	CTRL.SPI64GGIO1.SPCSO20	ctlVal
SPI64GGIO1 SPCSO 21		
	CTRL.SPI64GGIO1.SPCSO21	ctlVal
SPI64GGIO1 SPCSO 22		
	CTRL.SPI64GGIO1.SPCSO22	ctlVal
SPI64GGIO1 SPCSO 23		
	CTRL.SPI64GGIO1.SPCSO23	ctlVal
SPI64GGIO1 SPCSO 24		
	CTRL.SPI64GGIO1.SPCSO24	ctlVal
SPI64GGIO1 SPCSO 25		
	CTRL.SPI64GGIO1.SPCSO25	ctlVal
SPI64GGIO1 SPCSO 26		
	CTRL.SPI64GGIO1.SPCSO26	ctlVal
SPI64GGIO1 SPCSO 27		
	CTRL.SPI64GGIO1.SPCSO27	ctlVal
SPI64GGIO1 SPCSO 28		
	CTRL.SPI64GGIO1.SPCSO28	ctlVal
SPI64GGIO1 SPCSO 29		
	CTRL.SPI64GGIO1.SPCSO29	ctlVal
SPI64GGIO1 SPCSO 3		
	CTRL.SPI64GGIO1.SPCSO3	ctlVal
SPI64GGIO1 SPCSO 30		
	CTRL.SPI64GGIO1.SPCSO30	ctlVal
SPI64GGIO1 SPCSO 31		
	CTRL.SPI64GGIO1.SPCSO31	ctlVal
SPI64GGIO1 SPCSO 32		
	CTRL.SPI64GGIO1.SPCSO32	ctlVal



SPi64GGIO1 SPCSO 33		
	CTRL.SPi64GGIO1.SPCSO33	ctlVal
SPi64GGIO1 SPCSO 34		
	CTRL.SPi64GGIO1.SPCSO34	ctlVal
SPi64GGIO1 SPCSO 35		
	CTRL.SPi64GGIO1.SPCSO35	ctlVal
SPi64GGIO1 SPCSO 36		
	CTRL.SPi64GGIO1.SPCSO36	ctlVal
SPi64GGIO1 SPCSO 37		
	CTRL.SPi64GGIO1.SPCSO37	ctlVal
SPi64GGIO1 SPCSO 38		
	CTRL.SPi64GGIO1.SPCSO38	ctlVal
SPi64GGIO1 SPCSO 39		
	CTRL.SPi64GGIO1.SPCSO39	ctlVal
SPi64GGIO1 SPCSO 4		
	CTRL.SPi64GGIO1.SPCSO4	ctlVal
SPi64GGIO1 SPCSO 40		
	CTRL.SPi64GGIO1.SPCSO40	ctlVal
SPi64GGIO1 SPCSO 41		
	CTRL.SPi64GGIO1.SPCSO41	ctlVal
SPi64GGIO1 SPCSO 42		
	CTRL.SPi64GGIO1.SPCSO42	ctlVal
SPi64GGIO1 SPCSO 43		
	CTRL.SPi64GGIO1.SPCSO43	ctlVal
SPi64GGIO1 SPCSO 44		
	CTRL.SPi64GGIO1.SPCSO44	ctlVal
SPi64GGIO1 SPCSO 45		
	CTRL.SPi64GGIO1.SPCSO45	ctlVal
SPi64GGIO1 SPCSO 46		
	CTRL.SPi64GGIO1.SPCSO46	ctlVal
SPi64GGIO1 SPCSO 47		
	CTRL.SPi64GGIO1.SPCSO47	ctlVal
SPi64GGIO1 SPCSO 48		
	CTRL.SPi64GGIO1.SPCSO48	ctlVal
SPi64GGIO1 SPCSO 49		
	CTRL.SPi64GGIO1.SPCSO49	ctlVal

SPI64GGIO1 SPCSO 5		
	CTRL.SPI64GGIO1.SPCSO5	ctlVal
SPI64GGIO1 SPCSO 50		
	CTRL.SPI64GGIO1.SPCSO50	ctlVal
SPI64GGIO1 SPCSO 51		
	CTRL.SPI64GGIO1.SPCSO51	ctlVal
SPI64GGIO1 SPCSO 52		
	CTRL.SPI64GGIO1.SPCSO52	ctlVal
SPI64GGIO1 SPCSO 53		
	CTRL.SPI64GGIO1.SPCSO53	ctlVal
SPI64GGIO1 SPCSO 54		
	CTRL.SPI64GGIO1.SPCSO54	ctlVal
SPI64GGIO1 SPCSO 55		
	CTRL.SPI64GGIO1.SPCSO55	ctlVal
SPI64GGIO1 SPCSO 56		
	CTRL.SPI64GGIO1.SPCSO56	ctlVal
SPI64GGIO1 SPCSO 57		
	CTRL.SPI64GGIO1.SPCSO57	ctlVal
SPI64GGIO1 SPCSO 58		
	CTRL.SPI64GGIO1.SPCSO58	ctlVal
SPI64GGIO1 SPCSO 59		
	CTRL.SPI64GGIO1.SPCSO59	ctlVal
SPI64GGIO1 SPCSO 6		
	CTRL.SPI64GGIO1.SPCSO6	ctlVal
SPI64GGIO1 SPCSO 60		
	CTRL.SPI64GGIO1.SPCSO60	ctlVal
SPI64GGIO1 SPCSO 61		
	CTRL.SPI64GGIO1.SPCSO61	ctlVal
SPI64GGIO1 SPCSO 62		
	CTRL.SPI64GGIO1.SPCSO62	ctlVal
SPI64GGIO1 SPCSO 63		
	CTRL.SPI64GGIO1.SPCSO63	ctlVal
SPI64GGIO1 SPCSO 64		
	CTRL.SPI64GGIO1.SPCSO64	ctlVal
SPI64GGIO1 SPCSO 7		
	CTRL.SPI64GGIO1.SPCSO7	ctlVal

SPi64GGIO1 SPCSO 8		
	CTRL.SPi64GGIO1.SPCSO8	ctVal
SPi64GGIO1 SPCSO 9		
	CTRL.SPi64GGIO1.SPCSO9	ctVal

### 1.32 Single Point Outputs

Reyrolle	DOI	DA Group
SPo32GGIO1 Ind 1		
	CTRL.SPo32GGIO1.Ind1	stVal
SPo32GGIO1 Ind 10		
	CTRL.SPo32GGIO1.Ind10	stVal
SPo32GGIO1 Ind 11		
	CTRL.SPo32GGIO1.Ind11	stVal
SPo32GGIO1 Ind 12		
	CTRL.SPo32GGIO1.Ind12	stVal
SPo32GGIO1 Ind 13		
	CTRL.SPo32GGIO1.Ind13	stVal
SPo32GGIO1 Ind 14		
	CTRL.SPo32GGIO1.Ind14	stVal
SPo32GGIO1 Ind 15		
	CTRL.SPo32GGIO1.Ind15	stVal
SPo32GGIO1 Ind 16		
	CTRL.SPo32GGIO1.Ind16	stVal
SPo32GGIO1 Ind 17		
	CTRL.SPo32GGIO1.Ind17	stVal
SPo32GGIO1 Ind 18		
	CTRL.SPo32GGIO1.Ind18	stVal
SPo32GGIO1 Ind 19		
	CTRL.SPo32GGIO1.Ind19	stVal
SPo32GGIO1 Ind 2		
	CTRL.SPo32GGIO1.Ind2	stVal
SPo32GGIO1 Ind 20		
	CTRL.SPo32GGIO1.Ind20	stVal
SPo32GGIO1 Ind 21		
	CTRL.SPo32GGIO1.Ind21	stVal

SPo32GGIO1 Ind 22		
	CTRL.SPo32GGIO1.Ind22	stVal
SPo32GGIO1 Ind 23		
	CTRL.SPo32GGIO1.Ind23	stVal
SPo32GGIO1 Ind 24		
	CTRL.SPo32GGIO1.Ind24	stVal
SPo32GGIO1 Ind 25		
	CTRL.SPo32GGIO1.Ind25	stVal
SPo32GGIO1 Ind 26		
	CTRL.SPo32GGIO1.Ind26	stVal
SPo32GGIO1 Ind 27		
	CTRL.SPo32GGIO1.Ind27	stVal
SPo32GGIO1 Ind 28		
	CTRL.SPo32GGIO1.Ind28	stVal
SPo32GGIO1 Ind 29		
	CTRL.SPo32GGIO1.Ind29	stVal
SPo32GGIO1 Ind 3		
	CTRL.SPo32GGIO1.Ind3	stVal
SPo32GGIO1 Ind 30		
	CTRL.SPo32GGIO1.Ind30	stVal
SPo32GGIO1 Ind 31		
	CTRL.SPo32GGIO1.Ind31	stVal
SPo32GGIO1 Ind 32		
	CTRL.SPo32GGIO1.Ind32	stVal
SPo32GGIO1 Ind 4		
	CTRL.SPo32GGIO1.Ind4	stVal
SPo32GGIO1 Ind 5		
	CTRL.SPo32GGIO1.Ind5	stVal
SPo32GGIO1 Ind 6		
	CTRL.SPo32GGIO1.Ind6	stVal
SPo32GGIO1 Ind 7		
	CTRL.SPo32GGIO1.Ind7	stVal
SPo32GGIO1 Ind 8		
	CTRL.SPo32GGIO1.Ind8	stVal
SPo32GGIO1 Ind 9		
	CTRL.SPo32GGIO1.Ind9	stVal

### 1.33 SYNCHRONISING CHECK

Reyrolle	DOI	DA Group
Angle Difference		
	PROT.RSYN1.DifAngClc	mag.f
Frequency Difference		
	PROT. RSYN1.DifHzClc	mag.f
Voltage Difference		
	PROT. RSYN1.DifVClc	mag.f
Angle Indication		
	PROT. RSYN1.AngInd	stVal
Frequency Indication		
	PROT. RSYN1.HzInd	stVal
Voltage Indication		
	PROT. RSYN1.VInd	stVal
Release		
	PROT. RSYN1.Rel	stVal
Sync in Progress		
	PROT. RSYN1.SynPrg	stVal

### 1.34 THERMAL

Reyrolle	DOI	DA Group
49 Enabled		
	PROT.A49PTTR1.Mod	stVal
	PROT.A49PTTR1.Beh	stVal
49 Operated		
	PROT.A49PTTR1.Op	general
49 Pickup		
	PROT.A49PTTR1.Str	general
49 Thermal Alarm		
	PROT.A49PTTR1.AlmThm	general
Inhibit 49		
	PROT.A49PTTR1.Mod	stVal
	PROT.A49PTTR1.Beh	stVal

## 1.35 Trip Counters

Reyrolle	DOI	DA Group
CB Count To AR Block		
	CTRL.CntLOGGIO1.ISCSO1	stVal
CB Count To AR Block Enabled		
	CTRL.CntLOGGIO1.Mod	stVal
	CTRL.CntLOGGIO1.Beh	stVal
CB Count To AR Block Operated		
	CTRL.CntLOGGIO1.SPCSO	stVal
CB Count To AR Block Target		
	CTRL.CntLOGGIO1.ISCSO2	stVal
CB Delta Trip Count		
	CTRL.CntDelGGIO1.ISCSO1	stVal
CB Delta Trip Count Enabled		
	CTRL.CntDelGGIO1.Mod	stVal
	CTRL.CntDelGGIO1.Beh	stVal
CB Delta Trip Count Operated		
	CTRL.CntDelGGIO1.SPCSO	stVal
CB Delta Trip Count Target		
	CTRL.CntDelGGIO1.ISCSO2	stVal
CB E/F Trip Count		
	CTRL.CntEFGGIO1.ISCSO1	stVal
CB E/F Trip Count Enabled		
	CTRL.CntEFGGIO1.Mod	stVal
	CTRL.CntEFGGIO1.Beh	stVal
CB E/F Trip Count Operated		
	CTRL.CntEFGGIO1.SPCSO	stVal
CB E/F Trip Count Target		
	CTRL.CntEFGGIO1.ISCSO2	stVal
CB LO Handle Ops		
	CTRL.OpsLOGGIO1.ISCSO1	stVal
CB LO Handle Ops Enabled		
	CTRL.OpsLOGGIO1.Mod	stVal
	CTRL.OpsLOGGIO1.Beh	stVal
CB LO Handle Ops Operated		
	CTRL.OpsLOGGIO1.SPCSO	stVal

CB LO Handle Ops Target		
	CTRL.OpsLOGGIO1.ISCSO2	stVal
CB Ph A Trip Count		
	CTRL.CntPhAGGIO1.ISCSO1	stVal
CB Ph A Trip Count Enabled		
	CTRL.CntPhAGGIO1.Mod	stVal
	CTRL.CntPhAGGIO1.Beh	stVal
CB Ph A Trip Count Operated		
	CTRL.CntPhAGGIO1.SPCSO	stVal
CB Ph A Trip Count Target		
	CTRL.CntPhAGGIO1.ISCSO2	stVal
CB Ph B Trip Count		
	CTRL.CntPhBGGIO1.ISCSO1	stVal
CB Ph B Trip Count Enabled		
	CTRL.CntPhBGGIO1.Mod	stVal
	CTRL.CntPhBGGIO1.Beh	stVal
CB Ph B Trip Count Operated		
	CTRL.CntPhBGGIO1.SPCSO	stVal
CB Ph B Trip Count Target		
	CTRL.CntPhBGGIO1.ISCSO2	stVal
CB Ph C Trip Count		
	CTRL.CntPhCGGIO1.ISCSO1	stVal
CB Ph C Trip Count Enabled		
	CTRL.CntPhCGGIO1.Mod	stVal
	CTRL.CntPhCGGIO1.Beh	stVal
CB Ph C Trip Count Operated		
	CTRL.CntPhCGGIO1.SPCSO	stVal
CB Ph C Trip Count Target		
	CTRL.CntPhCGGIO1.ISCSO2	stVal
CB-A Count - ARBlock		
	CTRL.CntLOAGGIO1.ISCSO1	stVal
CB-A Count - ARBlock Enabled		
	CTRL.CntLOAGGIO1.Mod	stVal
	CTRL.CntLOAGGIO1.Beh	stVal
CB-A Count - ARBlock Operated		
	CTRL.CntLOAGGIO1.SPCSO	stVal

CB-A Count - ARBlock Target		
	CTRL.CntLOAGGIO1.ISCSO2	stVal
CB-A Delta TripCount		
	CTRL.CntDelAGGIO1.ISCSO1	stVal
CB-A Delta TripCount Enabled		
	CTRL.CntDelAGGIO1.Mod	stVal
	CTRL.CntDelAGGIO1.Beh	stVal
CB-A Delta TripCount Operated		
	CTRL.CntDelAGGIO1.SPCSO	stVal
CB-A Delta TripCount Target		
	CTRL.CntDelAGGIO1.ISCSO2	stVal
CB-A LO Handle Ops		
	CTRL.OpsLOAGGIO1.ISCSO1	stVal
CB-A LO Handle Ops Enabled		
	CTRL.OpsLOAGGIO1.Mod	stVal
	CTRL.OpsLOAGGIO1.Beh	stVal
CB-A LO Handle Ops Operated		
	CTRL.OpsLOAGGIO1.SPCSO	stVal
CB-A LO Handle Ops Target		
	CTRL.OpsLOAGGIO1.ISCSO2	stVal
CB-A Total TripCount		
	CTRL.CntTotAGGIO1.ISCSO1	stVal
CB-A Total TripCount Enabled		
	CTRL.CntTotAGGIO1.Mod	stVal
	CTRL.CntTotAGGIO1.Beh	stVal
CB-A Total TripCount Operated		
	CTRL.CntTotAGGIO1.SPCSO	stVal
CB-A Total TripCount Target		
	CTRL.CntTotAGGIO1.ISCSO2	stVal
CB-B Count - ARBlock		
	CTRL.CntLOBGGIO1.ISCSO1	stVal
CB-B Count - ARBlock Enabled		
	CTRL.CntLOBGGIO1.Mod	stVal
	CTRL.CntLOBGGIO1.Beh	stVal
CB-B Count - ARBlock Operated		
	CTRL.CntLOBGGIO1.SPCSO	stVal



CB-B Count - ARBlock Target		
	CTRL.CntLOBGGIO1.ISCSO2	stVal
CB-B Delta TripCount		
	CTRL.CntDelBGGIO1.ISCSO1	stVal
CB-B Delta TripCount Enabled		
	CTRL.CntDelBGGIO1.Mod	stVal
	CTRL.CntDelBGGIO1.Beh	stVal
CB-B Delta TripCount Operated		
	CTRL.CntDelBGGIO1.SPCSO	stVal
CB-B Delta TripCount Target		
	CTRL.CntDelBGGIO1.ISCSO2	stVal
CB-B LO Handle Ops		
	CTRL.OpsLOBGGIO1.ISCSO1	stVal
CB-B LO Handle Ops Enabled		
	CTRL.OpsLOBGGIO1.Mod	stVal
	CTRL.OpsLOBGGIO1.Beh	stVal
CB-B LO Handle Ops Operated		
	CTRL.OpsLOBGGIO1.SPCSO	stVal
CB-B LO Handle Ops Target		
	CTRL.OpsLOBGGIO1.ISCSO2	stVal
CB-B Total TripCount		
	CTRL.CntTotBGGIO1.ISCSO1	stVal
CB-B Total TripCount Enabled		
	CTRL.CntTotBGGIO1.Mod	stVal
	CTRL.CntTotBGGIO1.Beh	stVal
CB-B Total TripCount Operated		
	CTRL.CntTotBGGIO1.SPCSO	stVal
CB-B Total TripCount Target		
	CTRL.CntTotBGGIO1.ISCSO2	stVal
CB-C Count - ARBlock		
	CTRL.CntLOC GGIO1.ISCSO1	stVal
CB-C Count - ARBlock Enabled		
	CTRL.CntLOC GGIO1.Mod	stVal
	CTRL.CntLOC GGIO1.Beh	stVal
CB-C Count - ARBlock Operated		
	CTRL.CntLOC GGIO1.SPCSO	stVal

CB-C Count - ARBlock Target		
	CTRL.CntLOCGGIO1.ISCSO2	stVal
CB-C Delta TripCount		
	CTRL.CntDelCGGIO1.ISCSO1	stVal
CB-C Delta TripCount Enabled		
	CTRL.CntDelCGGIO1.Mod	stVal
	CTRL.CntDelCGGIO1.Beh	stVal
CB-C Delta TripCount Operated		
	CTRL.CntDelCGGIO1.SPCSO	stVal
CB-C Delta TripCount Target		
	CTRL.CntDelCGGIO1.ISCSO2	stVal
CB-C LO Handle Ops		
	CTRL.OpsLOCGGIO1.ISCSO1	stVal
CB-C LO Handle Ops Enabled		
	CTRL.OpsLOCGGIO1.Mod	stVal
	CTRL.OpsLOCGGIO1.Beh	stVal
CB-C LO Handle Ops Operated		
	CTRL.OpsLOCGGIO1.SPCSO	stVal
CB-C LO Handle Ops Target		
	CTRL.OpsLOCGGIO1.ISCSO2	stVal
CB-C Total TripCount		
	CTRL.CntTotCGGIO1.ISCSO1	stVal
CB-C Total TripCount Enabled		
	CTRL.CntTotCGGIO1.Mod	stVal
	CTRL.CntTotCGGIO1.Beh	stVal
CB-C Total TripCount Operated		
	CTRL.CntTotCGGIO1.SPCSO	stVal
CB-C Total TripCount Target		
	CTRL.CntTotCGGIO1.ISCSO2	stVal

### 1.36 U/O FREQUENCY

Reyrolle	DOI	DA Group
81-1 Enabled		
	PROT.A81PTOF1.Mod	stVal
	PROT.A81PTOF1.Beh	stVal

	PROT.A81PTUF1.Mod	stVal
	PROT.A81PTUF1.Beh	stVal
81-1 Operated		
	PROT.A81PTOF1.Op	general
	PROT.A81PTUF1.Op	general
81-1 Pickup		
	PROT.A81PTOF1.Str	general
	PROT.A81PTUF1.Str	general
81-2 Enabled		
	PROT.A81PTOF2.Mod	stVal
	PROT.A81PTOF2.Beh	stVal
	PROT.A81PTUF2.Mod	stVal
	PROT.A81PTUF2.Beh	stVal
81-2 Operated		
	PROT.A81PTOF2.Op	general
	PROT.A81PTUF2.Op	general
81-2 Pickup		
	PROT.A81PTOF2.Str	general
	PROT.A81PTUF2.Str	general
81-3 Enabled		
	PROT.A81PTOF3.Mod	stVal
	PROT.A81PTOF3.Beh	stVal
	PROT.A81PTUF3.Mod	stVal
	PROT.A81PTUF3.Beh	stVal
81-3 Operated		
	PROT.A81PTOF3.Op	general
	PROT.A81PTUF3.Op	general
81-3 Pickup		
	PROT.A81PTOF3.Str	general
	PROT.A81PTUF3.Str	general
81-4 Enabled		
	PROT.A81PTOF4.Mod	stVal
	PROT.A81PTOF4.Beh	stVal
	PROT.A81PTUF4.Mod	stVal
	PROT.A81PTUF4.Beh	stVal
81-4 Operated		

	PROT.A81PTOF4.Op	general
	PROT.A81PTUF4.Op	general
81-4 Pickup		
	PROT.A81PTOF4.Str	general
	PROT.A81PTUF4.Str	general
Inhibit 81-1		
	PROT.A81PTOF1.Mod	stVal
	PROT.A81PTOF1.Beh	stVal
	PROT.A81PTUF1.Mod	stVal
	PROT.A81PTUF1.Beh	stVal
Inhibit 81-2		
	PROT.A81PTOF2.Mod	stVal
	PROT.A81PTOF2.Beh	stVal
	PROT.A81PTUF2.Mod	stVal
	PROT.A81PTUF2.Beh	stVal
Inhibit 81-3		
	PROT.A81PTOF3.Mod	stVal
	PROT.A81PTOF3.Beh	stVal
	PROT.A81PTUF3.Mod	stVal
	PROT.A81PTUF3.Beh	stVal
Inhibit 81-4		
	PROT.A81PTOF4.Mod	stVal
	PROT.A81PTOF4.Beh	stVal
	PROT.A81PTUF4.Mod	stVal
	PROT.A81PTUF4.Beh	stVal

### 1.37 UNDER CURRENT

Reyrolle	DOI	DA Group
37-1 Enabled		
	PROT.A37PTUC1.Mod	stVal
	PROT.A37PTUC1.Beh	stVal
37-1 Operated		
	PROT.A37PTUC1.Op	general
37-1 PhA Pickup		
	PROT.A37PTUC1.Str	general

	PROT.A37PTUC1.Str	phsA
37-1 PhB Pickup		
	PROT.A37PTUC1.Str	general
	PROT.A37PTUC1.Str	phsB
37-1 PhC Pickup		
	PROT.A37PTUC1.Str	general
	PROT.A37PTUC1.Str	phsC
37-2 Enabled		
	PROT.A37PTUC2.Mod	stVal
	PROT.A37PTUC2.Beh	stVal
37-2 Operated		
	PROT.A37PTUC2.Op	general
37-2 PhA Pickup		
	PROT.A37PTUC2.Str	general
	PROT.A37PTUC2.Str	phsA
37-2 PhB Pickup		
	PROT.A37PTUC2.Str	general
	PROT.A37PTUC2.Str	phsB
37-2 PhC Pickup		
	PROT.A37PTUC2.Str	general
	PROT.A37PTUC2.Str	phsC
Inhibit 37-1		
	PROT.A37PTUC1.Mod	stVal
	PROT.A37PTUC1.Beh	stVal
Inhibit 37-2		
	PROT.A37PTUC2.Mod	stVal
	PROT.A37PTUC2.Beh	stVal

### 1.38 Virtuals

Reyrolle	DOI	DA Group
Virtual 1		
	CTRL.V16GGIO1.Ind1	stVal
Virtual 10		
	CTRL.V16GGIO1.Ind10	stVal
Virtual 11		

	CTRL.V16GGIO1.Ind11	stVal
Virtual 12		
	CTRL.V16GGIO1.Ind12	stVal
Virtual 13		
	CTRL.V16GGIO1.Ind13	stVal
Virtual 14		
	CTRL.V16GGIO1.Ind14	stVal
Virtual 15		
	CTRL.V16GGIO1.Ind15	stVal
Virtual 16		
	CTRL.V16GGIO1.Ind16	stVal
Virtual 2		
	CTRL.V16GGIO1.Ind2	stVal
Virtual 3		
	CTRL.V16GGIO1.Ind3	stVal
Virtual 4		
	CTRL.V16GGIO1.Ind4	stVal
Virtual 5		
	CTRL.V16GGIO1.Ind5	stVal
Virtual 6		
	CTRL.V16GGIO1.Ind6	stVal
Virtual 7		
	CTRL.V16GGIO1.Ind7	stVal
Virtual 8		
	CTRL.V16GGIO1.Ind8	stVal
Virtual 9		
	CTRL.V16GGIO1.Ind9	stVal

### 1.39 VOLTAGE METERS

Reyrolle	DOI	DA Group
Voltage V Seq		
	MEAS.V_MSQI1.SeqV	c1.instCVal.mag.f
	MEAS.V_MSQI1.SeqV	c1.instCVal.ang.f
	MEAS.V_MSQI1.SeqV	c1.cVal.mag.f
	MEAS.V_MSQI1.SeqV	c1.cVal.ang.f

	MEAS.V_MSQI1.SeqV	c1.units.SIUnit
	MEAS.V_MSQI1.SeqV	c1.units.multiplier
Voltage V Seq PhB		
	MEAS.V_MSQI1.SeqV	c2.instCVal.mag.f
	MEAS.V_MSQI1.SeqV	c2.instCVal.ang.f
	MEAS.V_MSQI1.SeqV	c2.cVal.mag.f
	MEAS.V_MSQI1.SeqV	c2.cVal.ang.f
	MEAS.V_MSQI1.SeqV	c2.units.SIUnit
	MEAS.V_MSQI1.SeqV	c2.units.multiplier
Voltage V Seq PhC		
	MEAS.V_MSQI1.SeqV	c3.instCVal.mag.f
	MEAS.V_MSQI1.SeqV	c3.instCVal.ang.f
	MEAS.V_MSQI1.SeqV	c3.cVal.mag.f
	MEAS.V_MSQI1.SeqV	c3.cVal.ang.f
	MEAS.V_MSQI1.SeqV	c3.units.SIUnit
	MEAS.V_MSQI1.SeqV	c3.units.multiplier
Voltage V Seq		
	MEAS.V1_MSQI1.SeqV	c1.instCVal.mag.f
	MEAS.V1_MSQI1.SeqV	c1.instCVal.ang.f
	MEAS.V1_MSQI1.SeqV	c1.cVal.mag.f
	MEAS.V1_MSQI1.SeqV	c1.cVal.ang.f
	MEAS.V1_MSQI1.SeqV	c1.units.SIUnit
	MEAS.V1_MSQI1.SeqV	c1.units.multiplier
	MEAS.V2_MSQI1.SeqV	c1.instCVal.mag.f
	MEAS.V2_MSQI1.SeqV	c1.instCVal.ang.f
	MEAS.V2_MSQI1.SeqV	c1.cVal.mag.f
	MEAS.V2_MSQI1.SeqV	c1.cVal.ang.f
	MEAS.V2_MSQI1.SeqV	c1.units.SIUnit
	MEAS.V2_MSQI1.SeqV	c1.units.multiplier
Voltage V Seq PhB		
	MEAS.V1_MSQI1.SeqV	c2.instCVal.mag.f
	MEAS.V1_MSQI1.SeqV	c2.instCVal.ang.f
	MEAS.V1_MSQI1.SeqV	c2.cVal.mag.f
	MEAS.V1_MSQI1.SeqV	c2.cVal.ang.f
	MEAS.V1_MSQI1.SeqV	c2.units.SIUnit
	MEAS.V1_MSQI1.SeqV	c2.units.multiplier

	MEAS.V2_MSQI1.SeqV	c2.instCVal.mag.f
	MEAS.V2_MSQI1.SeqV	c2.instCVal.ang.f
	MEAS.V2_MSQI1.SeqV	c2.cVal.mag.f
	MEAS.V2_MSQI1.SeqV	c2.cVal.ang.f
	MEAS.V2_MSQI1.SeqV	c2.units.SIUnit
	MEAS.V2_MSQI1.SeqV	c2.units.multiplier
Voltage V Seq PhC		
	MEAS.V1_MSQI1.SeqV	c3.instCVal.mag.f
	MEAS.V1_MSQI1.SeqV	c3.instCVal.ang.f
	MEAS.V1_MSQI1.SeqV	c3.cVal.mag.f
	MEAS.V1_MSQI1.SeqV	c3.cVal.ang.f
	MEAS.V1_MSQI1.SeqV	c3.units.SIUnit
	MEAS.V1_MSQI1.SeqV	c3.units.multiplier
	MEAS.V2_MSQI1.SeqV	c3.instCVal.mag.f
	MEAS.V2_MSQI1.SeqV	c3.instCVal.ang.f
	MEAS.V2_MSQI1.SeqV	c3.cVal.mag.f
	MEAS.V2_MSQI1.SeqV	c3.cVal.ang.f
	MEAS.V2_MSQI1.SeqV	c3.units.SIUnit
	MEAS.V2_MSQI1.SeqV	c3.units.multiplier

## 1.40 VX U/O VOLTAGE

Reyrolle	DOI	DA Group
Inhibit Vx 27/59		
	PROT.A2759PTOV5.Mod	stVal
	PROT.A2759PTOV5.Beh	stVal
	PROT.A2759PTUV5.Mod	stVal
	PROT.A2759PTUV5.Beh	stVal
Vx 27/59 Enabled		
	PROT.A2759PTOV5.Mod	stVal
	PROT.A2759PTOV5.Beh	stVal
	PROT.A2759PTUV5.Mod	stVal
	PROT.A2759PTUV5.Beh	stVal
Vx 27/59 Operated		
	PROT.A2759PTOV5.Op	general
	PROT.A2759PTUV5.Op	general



Vx 27/59 Pickup		
	PROT.A2759PTOV5.Str	general
	PROT.A2759PTUV5.Str	general
Inhibit Vx 27/59-1		
	PROT.Vx2759PTOV1.Mod	stVal
	PROT.Vx2759PTOV1.Beh	stVal
	PROT.Vx2759PTUV1.Mod	stVal
	PROT.Vx2759PTUV1.Beh	stVal
Inhibit Vx 27/59-2		
	PROT.Vx2759PTOV2.Mod	stVal
	PROT.Vx2759PTOV2.Beh	stVal
	PROT.Vx2759PTUV2.Mod	stVal
	PROT.Vx2759PTUV2.Beh	stVal
Inhibit Vx 27/59-3		
	PROT.Vx2759PTOV3.Mod	stVal
	PROT.Vx2759PTOV3.Beh	stVal
	PROT.Vx2759PTUV3.Mod	stVal
	PROT.Vx2759PTUV3.Beh	stVal
Inhibit Vx 27/59-4		
	PROT.Vx2759PTOV4.Mod	stVal
	PROT.Vx2759PTOV4.Beh	stVal
	PROT.Vx2759PTUV4.Mod	stVal
	PROT.Vx2759PTUV4.Beh	stVal
Vx 27/59-1 Enabled		
	PROT.Vx2759PTOV1.Mod	stVal
	PROT.Vx2759PTOV1.Beh	stVal
	PROT.Vx2759PTUV1.Mod	stVal
	PROT.Vx2759PTUV1.Beh	stVal
Vx 27/59-1 Operated		
	PROT.Vx2759PTOV1.Op	general
	PROT.Vx2759PTUV1.Op	general
Vx 27/59-1 PhA Pickup		
	PROT.Vx2759PTOV1.Str	general
	PROT.Vx2759PTOV1.Str	phsA
	PROT.Vx2759PTUV1.Str	general
	PROT.Vx2759PTUV1.Str	phsA

Vx 27/59-1 PhB Pickup		
	PROT.Vx2759PTOV1.Str	general
	PROT.Vx2759PTOV1.Str	phsB
	PROT.Vx2759PTUV1.Str	general
	PROT.Vx2759PTUV1.Str	phsB
Vx 27/59-1 PhC Pickup		
	PROT.Vx2759PTOV1.Str	general
	PROT.Vx2759PTOV1.Str	phsC
	PROT.Vx2759PTUV1.Str	general
	PROT.Vx2759PTUV1.Str	phsC
Vx 27/59-2 Enabled		
	PROT.Vx2759PTOV2.Mod	stVal
	PROT.Vx2759PTOV2.Beh	stVal
	PROT.Vx2759PTUV2.Mod	stVal
	PROT.Vx2759PTUV2.Beh	stVal
Vx 27/59-2 Operated		
	PROT.Vx2759PTOV2.Op	general
	PROT.Vx2759PTUV2.Op	general
Vx 27/59-2 PhA Pickup		
	PROT.Vx2759PTOV2.Str	general
	PROT.Vx2759PTOV2.Str	phsA
	PROT.Vx2759PTUV2.Str	general
	PROT.Vx2759PTUV2.Str	phsA
Vx 27/59-2 PhB Pickup		
	PROT.Vx2759PTOV2.Str	general
	PROT.Vx2759PTOV2.Str	phsB
	PROT.Vx2759PTUV2.Str	general
	PROT.Vx2759PTUV2.Str	phsB
Vx 27/59-2 PhC Pickup		
	PROT.Vx2759PTOV2.Str	general
	PROT.Vx2759PTOV2.Str	phsC
	PROT.Vx2759PTUV2.Str	general
	PROT.Vx2759PTUV2.Str	phsC
Vx 27/59-3 Enabled		
	PROT.Vx2759PTOV3.Mod	stVal
	PROT.Vx2759PTOV3.Beh	stVal

	PROT.Vx2759PTUV3.Mod	stVal
	PROT.Vx2759PTUV3.Beh	stVal
Vx 27/59-3 Operated		
	PROT.Vx2759PTOV3.Op	general
	PROT.Vx2759PTUV3.Op	general
Vx 27/59-3 PhA Pickup		
	PROT.Vx2759PTOV3.Str	general
	PROT.Vx2759PTOV3.Str	phsA
	PROT.Vx2759PTUV3.Str	general
	PROT.Vx2759PTUV3.Str	phsA
Vx 27/59-3 PhB Pickup		
	PROT.Vx2759PTOV3.Str	general
	PROT.Vx2759PTOV3.Str	phsB
	PROT.Vx2759PTUV3.Str	general
	PROT.Vx2759PTUV3.Str	phsB
Vx 27/59-3 PhC Pickup		
	PROT.Vx2759PTOV3.Str	general
	PROT.Vx2759PTOV3.Str	phsC
	PROT.Vx2759PTUV3.Str	general
	PROT.Vx2759PTUV3.Str	phsC
Vx 27/59-4 Enabled		
	PROT.Vx2759PTOV4.Mod	stVal
	PROT.Vx2759PTOV4.Beh	stVal
	PROT.Vx2759PTUV4.Mod	stVal
	PROT.Vx2759PTUV4.Beh	stVal
Vx 27/59-4 Operated		
	PROT.Vx2759PTOV4.Op	general
	PROT.Vx2759PTUV4.Op	general
Vx 27/59-4 PhA Pickup		
	PROT.Vx2759PTOV4.Str	general
	PROT.Vx2759PTOV4.Str	phsA
	PROT.Vx2759PTUV4.Str	general
	PROT.Vx2759PTUV4.Str	phsA
Vx 27/59-4 PhB Pickup		
	PROT.Vx2759PTOV4.Str	general
	PROT.Vx2759PTOV4.Str	phsB

	PROT.Vx2759PTUV4.Str	general
	PROT.Vx2759PTUV4.Str	phsB
Vx 27/59-4 PhC Pickup		
	PROT.Vx2759PTOV4.Str	general
	PROT.Vx2759PTOV4.Str	phsC
	PROT.Vx2759PTUV4.Str	general
	PROT.Vx2759PTUV4.Str	phsC

## 2 IEC 61850 -> Reyrolle

### 2.1 PROT

#### 2.1.1 A2759PTOV1

Beh		
	stVal	Out of Service
		Inhibit 27/59-1
		27/59-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 27/59-1
		27/59-1 Enabled
Op		
	general	27/59-1 Operated
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	27/59-1 PhA Pickup
		27/59-1 PhB Pickup
		27/59-1 PhC Pickup
	phsA	27/59-1 PhA Pickup
	phsB	27/59-1 PhB Pickup
	phsC	27/59-1 PhC Pickup

#### 2.1.2 A2759PTOV2

Beh		
	stVal	Out of Service
		Inhibit 27/59-2
		27/59-2 Enabled
Health		
	stVal	Protection Healthy

Mod		
	stVal	Inhibit 27/59-2
		27/59-2 Enabled
Op		
	general	27/59-2 Operated
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	27/59-2 PhA Pickup
		27/59-2 PhB Pickup
		27/59-2 PhC Pickup
	phsA	27/59-2 PhA Pickup
	phsB	27/59-2 PhB Pickup
	phsC	27/59-2 PhC Pickup

### 2.1.3 A2759PTOV3

Beh		
	stVal	Out of Service
		Inhibit 27/59-3
		27/59-3 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 27/59-3
		27/59-3 Enabled
Op		
	general	27/59-3 Operated
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	27/59-3 PhA Pickup
		27/59-3 PhB Pickup

		27/59-3 PhC Pickup
	phsA	27/59-3 PhA Pickup
	phsB	27/59-3 PhB Pickup
	phsC	27/59-3 PhC Pickup

#### 2.1.4 A2759PTOV4

Beh		
	stVal	Out of Service
		Inhibit 27/59-4
		27/59-4 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 27/59-4
		27/59-4 Enabled
Op		
	general	27/59-4 Operated
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	27/59-4 PhA Pickup
		27/59-4 PhB Pickup
		27/59-4 PhC Pickup
	phsA	27/59-4 PhA Pickup
	phsB	27/59-4 PhB Pickup
	phsC	27/59-4 PhC Pickup

#### 2.1.5 A2759PTOV5

Beh		
	stVal	Out of Service
		Inhibit Vx 27/59
		Vx 27/59 Enabled
Health		
	stVal	Protection Healthy

Mod		
	stVal	Inhibit Vx 27/59
		Vx 27/59 Enabled
Op		
	general	Vx 27/59 Operated
Str		
	dirGeneral	Non-Directional
	general	Vx 27/59 Pickup

### 2.1.6 A2759PTUV1

Beh		
	stVal	Out of Service
		Inhibit 27/59-1
		27/59-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 27/59-1
		27/59-1 Enabled
Op		
	general	27/59-1 Operated
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	27/59-1 PhA Pickup
		27/59-1 PhB Pickup
		27/59-1 PhC Pickup
	phsA	27/59-1 PhA Pickup
	phsB	27/59-1 PhB Pickup
	phsC	27/59-1 PhC Pickup

### 2.1.7 A2759PTUV2

Beh		
	stVal	Out of Service



		Inhibit 27/59-2
		27/59-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 27/59-2
		27/59-2 Enabled
Op		
	general	27/59-2 Operated
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	27/59-2 PhA Pickup
		27/59-2 PhB Pickup
		27/59-2 PhC Pickup
	phsA	27/59-2 PhA Pickup
	phsB	27/59-2 PhB Pickup
	phsC	27/59-2 PhC Pickup

### 2.1.8 A2759PTUV3

Beh		
	stVal	Out of Service
		Inhibit 27/59-3
		27/59-3 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 27/59-3
		27/59-3 Enabled
Op		
	general	27/59-3 Operated
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional

	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	27/59-3 PhA Pickup
		27/59-3 PhB Pickup
		27/59-3 PhC Pickup
	phsA	27/59-3 PhA Pickup
	phsB	27/59-3 PhB Pickup
	phsC	27/59-3 PhC Pickup

### 2.1.9 A2759PTUV4

Beh		
	stVal	Out of Service
		Inhibit 27/59-4
		27/59-4 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 27/59-4
		27/59-4 Enabled
Op		
	general	27/59-4 Operated
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	27/59-4 PhA Pickup
		27/59-4 PhB Pickup
		27/59-4 PhC Pickup
	phsA	27/59-4 PhA Pickup
	phsB	27/59-4 PhB Pickup
	phsC	27/59-4 PhC Pickup

### 2.1.10 A2759PTUV5

Beh		
	stVal	Out of Service

		Inhibit Vx 27/59
		Vx 27/59 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit Vx 27/59
		Vx 27/59 Enabled
Op		
	general	Vx 27/59 Operated
Str		
	dirGeneral	Non-Directional
	general	Vx 27/59 Pickup

### 2.1.11 A37PTUC1

Beh		
	stVal	Out of Service
		Inhibit 37-1
		37-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 37-1
		37-1 Enabled
Op		
	general	37-1 Operated
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	37-1 PhA Pickup
		37-1 PhB Pickup
		37-1 PhC Pickup
	phsA	37-1 PhA Pickup
	phsB	37-1 PhB Pickup
	phsC	37-1 PhC Pickup

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**2.1.12 A37PTUC2**

Beh		
	stVal	Out of Service
		Inhibit 37-2
		37-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 37-2
		37-2 Enabled
Op		
	general	37-2 Operated
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	37-2 PhA Pickup
		37-2 PhB Pickup
		37-2 PhC Pickup
	phsA	37-2 PhA Pickup
	phsB	37-2 PhB Pickup
	phsC	37-2 PhC Pickup

**2.1.13 A46DtPTOC1**

Beh		
	stVal	Out of Service
		Inhibit 46DT
		46DT Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 46DT
		46DT Enabled
Op		

	general	46DT Operated
Str		
	dirGeneral	Non-Directional
	general	46DT Pickup

**2.1.14 A46ItPTOC1**

Beh		
	stVal	Out of Service
		Inhibit 46IT
		46IT Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 46IT
		46IT Enabled
Op		
	general	46IT Operated
Str		
	general	46IT Pickup

**2.1.15 A47PTOV1**

Beh		
	stVal	Out of Service
		Inhibit 47-1
		47-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 47-1
		47-1 Enabled
Op		
	general	47-1 Operated
Str		
	dirGeneral	Non-Directional
	general	47-1 Pickup

**2.1.16 A47PTOV2**

Beh		
	stVal	Out of Service
		Inhibit 47-2
		47-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 47-2
		47-2 Enabled
Op		
	general	47-2 Operated
Str		
	dirGeneral	Non-Directional
	general	47-2 Pickup

**2.1.17 A49PTTR1**

AlmThm		
	general	49 Thermal Alarm
Beh		
	stVal	Inhibit 49
		49 Enabled
		Protection Active
		Out of Service
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 49
		49 Enabled
Op		
	general	49 Operated
Str		
	dirGeneral	Non-Directional
	general	49 Pickup

**2.1.18 A50BfRBRF1**

Beh		
	stVal	Inhibit 50BF
		50BF Enabled
		Protection Active
		Out of Service
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50BF
		50BF Enabled
OpEx		
	general	50BF-2
OpIn		
	general	50BF-1
Str		
	dirGeneral	Non-Directional
	general	50BF Pickup

**2.1.19 A50gPTOC1**

Beh		
	stVal	Out of Service
		Inhibit 50G-1
		50G-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50G-1
		50G-1 Enabled
Op		
	general	50G-1 Operated
Str		
	dirGeneral	50G-1 Dir Pickup
	general	50G-1 Pickup

**2.1.20 A50gPTOC2**

Beh		
	stVal	Out of Service
		Inhibit 50G-2
		50G-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50G-2
		50G-2 Enabled
Op		
	general	50G-2 Operated
Str		
	dirGeneral	50G-2 Dir Pickup
	general	50G-2 Pickup

**2.1.21 A50gPTOC3**

Beh		
	stVal	Out of Service
		Inhibit 50G-3
		50G-3 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50G-3
		50G-3 Enabled
Op		
	general	50G-3 Operated
Str		
	dirGeneral	50G-3 Dir Pickup
	general	50G-3 Pickup

**2.1.22 A50gPTOC4**

Beh		
	stVal	Out of Service
		Inhibit 50G-4



		50G-4 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50G-4
		50G-4 Enabled
Op		
	general	50G-4 Operated
Str		
	dirGeneral	50G-4 Dir Pickup
	general	50G-4 Pickup

### 2.1.23 A50PTOC1

Beh		
	stVal	Out of Service
		Inhibit 50-1
		50-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50-1
		50-1 Enabled
Op		
	general	50-1 Operated
Str		
	dirGeneral	50-1 PhA Dir Pickup
		50-1 PhB Dir Pickup
		50-1 PhC Dir Pickup
	dirPhsA	50-1 PhA Dir Pickup
	dirPhsB	50-1 PhB Dir Pickup
	dirPhsC	50-1 PhC Dir Pickup
	general	50-1 PhA Pickup
		50-1 PhB Pickup
		50-1 PhC Pickup
	phsA	50-1 PhA Pickup
	phsB	50-1 PhB Pickup

	phsC	50-1 PhC Pickup

**2.1.24 A50PTOC2**

Beh		
	stVal	Out of Service
		Inhibit 50-2
		50-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50-2
		50-2 Enabled
Op		
	general	50-2 Operated
Str		
	dirGeneral	50-2 PhA Dir Pickup
		50-2 PhB Dir Pickup
		50-2 PhC Dir Pickup
	dirPhsA	50-2 PhA Dir Pickup
	dirPhsB	50-2 PhB Dir Pickup
	dirPhsC	50-2 PhC Dir Pickup
	general	50-2 PhA Pickup
		50-2 PhB Pickup
		50-2 PhC Pickup
	phsA	50-2 PhA Pickup
	phsB	50-2 PhB Pickup
	phsC	50-2 PhC Pickup

**2.1.25 A50PTOC3**

Beh		
	stVal	Out of Service
		Inhibit 50-3
		50-3 Enabled
Health		
	stVal	Protection Healthy
Mod		

	stVal	Inhibit 50-3
		50-3 Enabled
Op		
	general	50-3 Operated
Str		
	dirGeneral	50-3 PhA Dir Pickup
		50-3 PhB Dir Pickup
		50-3 PhC Dir Pickup
	dirPhsA	50-3 PhA Dir Pickup
	dirPhsB	50-3 PhB Dir Pickup
	dirPhsC	50-3 PhC Dir Pickup
	general	50-3 PhA Pickup
		50-3 PhB Pickup
		50-3 PhC Pickup
	phsA	50-3 PhA Pickup
	phsB	50-3 PhB Pickup
	phsC	50-3 PhC Pickup

### 2.1.26 A50PTOC4

Beh		
	stVal	Out of Service
		Inhibit 50-4
		50-4 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50-4
		50-4 Enabled
Op		
	general	50-4 Operated
Str		
	dirGeneral	50-4 PhA Dir Pickup
		50-4 PhB Dir Pickup
		50-4 PhC Dir Pickup
	dirPhsA	50-4 PhA Dir Pickup
	dirPhsB	50-4 PhB Dir Pickup

	dirPhsC	50-4 PhC Dir Pickup
	general	50-4 PhA Pickup
		50-4 PhB Pickup
		50-4 PhC Pickup
	phsA	50-4 PhA Pickup
	phsB	50-4 PhB Pickup
	phsC	50-4 PhC Pickup

### 2.1.27 A50SefPTOC1

Beh		
	stVal	Out of Service
		Inhibit 50SEF-1
		50SEF-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50SEF-1
		50SEF-1 Enabled
Op		
	general	50SEF-1 Operated
Str		
	dirGeneral	50SEF-1 Dir Pickup
	general	50SEF-1 Pickup

### 2.1.28 A50SefPTOC2

Beh		
	stVal	Out of Service
		Inhibit 50SEF-2
		50SEF-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50SEF-2
		50SEF-2 Enabled
Op		
	general	50SEF-2 Operated

Str		
	dirGeneral	50SEF-2 Dir Pickup
	general	50SEF-2 Pickup

**2.1.29 A50SefPTOC3**

Beh		
	stVal	Out of Service
		Inhibit 50SEF-3
		50SEF-3 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50SEF-3
		50SEF-3 Enabled
Op		
	general	50SEF-3 Operated
Str		
	dirGeneral	50SEF-3 Dir Pickup
	general	50SEF-3 Pickup

**2.1.30 A50SefPTOC4**

Beh		
	stVal	Out of Service
		Inhibit 50SEF-4
		50SEF-4 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 50SEF-4
		50SEF-4 Enabled
Op		
	general	50SEF-4 Operated
Str		
	dirGeneral	50SEF-4 Dir Pickup
	general	50SEF-4 Pickup

**2.1.31 A51gPTOC1**

Beh		
	stVal	Out of Service
		Inhibit 51G-1
		51G-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 51G-1
		51G-1 Enabled
Op		
	general	51G-1 Operated
Str		
	dirGeneral	51G-1 Dir Pickup
	general	51G-1 Pickup

**2.1.32 A51gPTOC2**

Beh		
	stVal	Out of Service
		Inhibit 51G-2
		51G-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 51G-2
		51G-2 Enabled
Op		
	general	51G-2 Operated
Str		
	dirGeneral	51G-2 Dir Pickup
	general	51G-2 Pickup

**2.1.33 A51gPTOC3**

Beh		
	stVal	Out of Service
		Inhibit 51G-3

		51G-3 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 51G-3
		51G-3 Enabled
Op		
	general	51G-3 Operated
Str		
	dirGeneral	51G-3 Dir Pickup
	general	51G-3 Pickup

### 2.1.34 A51gPTOC4

Beh		
	stVal	Out of Service
		Inhibit 51G-4
		51G-4 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 51G-4
		51G-4 Enabled
Op		
	general	51G-4 Operated
Str		
	dirGeneral	51G-4 Dir Pickup
	general	51G-4 Pickup

### 2.1.35 A51PTOC1

Beh		
	stVal	Out of Service
		Inhibit 51-1
		51-1 Enabled
Health		
	stVal	Protection Healthy
Mod		

	stVal	Inhibit 51-1
		51-1 Enabled
Op		
	general	51-1 Operated
Str		
	dirGeneral	51-1 PhA Dir Pickup
		51-1 PhB Dir Pickup
		51-1 PhC Dir Pickup
	dirPhsA	51-1 PhA Dir Pickup
	dirPhsB	51-1 PhB Dir Pickup
	dirPhsC	51-1 PhC Dir Pickup
	general	51-1 PhA Pickup
		51-1 PhB Pickup
		51-1 PhC Pickup
	phsA	51-1 PhA Pickup
	phsB	51-1 PhB Pickup
	phsC	51-1 PhC Pickup

### 2.1.36 A51PTOC2

Beh		
	stVal	Out of Service
		Inhibit 51-2
		51-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 51-2
		51-2 Enabled
Op		
	general	51-2 Operated
Str		
	dirGeneral	51-2 PhA Dir Pickup
		51-2 PhB Dir Pickup
		51-2 PhC Dir Pickup
	dirPhsA	51-2 PhA Dir Pickup
	dirPhsB	51-2 PhB Dir Pickup



	dirPhsC	51-2 PhC Dir Pickup
	general	51-2 PhA Pickup
		51-2 PhB Pickup
		51-2 PhC Pickup
	phsA	51-2 PhA Pickup
	phsB	51-2 PhB Pickup
	phsC	51-2 PhC Pickup

**2.1.37 A51PTOC3**

Beh		
	stVal	Out of Service
		Inhibit 51-3
		51-3 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 51-3
		51-3 Enabled
Op		
	general	51-3 Operated
Str		
	dirGeneral	51-3 PhA Dir Pickup
		51-3 PhB Dir Pickup
		51-3 PhC Dir Pickup
	dirPhsA	51-3 PhA Dir Pickup
	dirPhsB	51-3 PhB Dir Pickup
	dirPhsC	51-3 PhC Dir Pickup
	general	51-3 PhA Pickup
		51-3 PhB Pickup
		51-3 PhC Pickup
	phsA	51-3 PhA Pickup
	phsB	51-3 PhB Pickup
	phsC	51-3 PhC Pickup

**2.1.38 A51PTOC4**

Beh		
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	stVal	Out of Service
		Inhibit 51-4
		51-4 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 51-4
		51-4 Enabled
Op		
	general	51-4 Operated
Str		
	dirGeneral	51-4 PhA Dir Pickup
		51-4 PhB Dir Pickup
		51-4 PhC Dir Pickup
	dirPhsA	51-4 PhA Dir Pickup
	dirPhsB	51-4 PhB Dir Pickup
	dirPhsC	51-4 PhC Dir Pickup
	general	51-4 PhA Pickup
		51-4 PhB Pickup
		51-4 PhC Pickup
	phsA	51-4 PhA Pickup
	phsB	51-4 PhB Pickup
	phsC	51-4 PhC Pickup

### 2.1.39 A51SefPTOC1

Beh		
	stVal	Out of Service
		Inhibit 51SEF-1
		51SEF-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 51SEF-1
		51SEF-1 Enabled
Op		
	general	51SEF-1 Operated

Str		
	dirGeneral	51SEF-1 Dir Pickup
	general	51SEF-1 Pickup

**2.1.40 A51SefPTOC2**

Beh		
	stVal	Out of Service
		Inhibit 51SEF-2
		51SEF-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 51SEF-2
		51SEF-2 Enabled
Op		
	general	51SEF-2 Operated
Str		
	dirGeneral	51SEF-2 Dir Pickup
	general	51SEF-2 Pickup

**2.1.41 A51SefPTOC3**

Beh		
	stVal	Out of Service
		Inhibit 51SEF-3
		51SEF-3 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 51SEF-3
		51SEF-3 Enabled
Op		
	general	51SEF-3 Operated
Str		
	dirGeneral	51SEF-3 Dir Pickup
	general	51SEF-3 Pickup

**2.1.42 A51SefPTOC4**

Beh		
	stVal	Out of Service
		Inhibit 51SEF-4
		51SEF-4 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 51SEF-4
		51SEF-4 Enabled
Op		
	general	51SEF-4 Operated
Str		
	dirGeneral	51SEF-4 Dir Pickup
	general	51SEF-4 Pickup

**2.1.43 A59nDtPTOV1**

Beh		
	stVal	Out of Service
		Inhibit 59NDT

		59NDT Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 59NDT
		59NDT Enabled
Op		
	general	59NDT Operated
Str		
	dirGeneral	Non-Directional
	general	59NDT Pickup

#### 2.1.44 A59nItPTOV1

Beh		
	stVal	Out of Service
		Inhibit 59NIT
		59NIT Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 59NIT
		59NIT Enabled
Op		
	general	59NIT Operated
Str		
	general	59NIT Pickup

#### 2.1.45 A64hPTOC1

Beh		
	stVal	Out of Service
		Inhibit 64H
		64H Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 64H

		64H Enabled
Op		
	general	64H Operated
Str		
	dirGeneral	Non-Directional
	general	64H Pickup

**2.1.46 A79RREC1**

AutoRecSt		
	stVal	In Progress
		Successful
Beh		
	stVal	In
		Inhibit
		Out
		Protection Elements Enabled
		Out of Service
Health		
	stVal	Protection Healthy
Mod		
	stVal	Protection Elements Enabled
		In
		Inhibit
		Out
Op		
	general	Operated

**2.1.47 A79RREC2**

AutoRecSt		
	stVal	In Progress
		Successful
Beh		
	stVal	In
		Inhibit
		Out
		Protection Elements Enabled

		Out of Service
Health		
	stVal	Protection Healthy
Mod		
	stVal	Protection Elements Enabled
		In
		Inhibit
		Out
Op		
	general	Operated

**2.1.48 A79RREC3**

AutoRecSt		
	stVal	In Progress
		Successful
Beh		
	stVal	In
		Inhibit
		Out
		Protection Elements Enabled
		Out of Service
Health		
	stVal	Protection Healthy
Mod		
	stVal	Protection Elements Enabled
		In
		Inhibit
		Out
Op		
	general	Operated

**2.1.49 A81PTOF1**

Beh		
	stVal	Out of Service
		Inhibit 81-1
		81-1 Enabled

Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 81-1
		81-1 Enabled
Op		
	general	81-1 Operated
Str		
	dirGeneral	Non-Directional
	general	81-1 Pickup

### 2.1.50 A81PTOF2

Beh		
	stVal	Out of Service
		Inhibit 81-2
		81-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 81-2
		81-2 Enabled
Op		
	general	81-2 Operated
Str		
	dirGeneral	Non-Directional
	general	81-2 Pickup

### 2.1.51 A81PTOF3

Beh		
	stVal	Out of Service
		Inhibit 81-3
		81-3 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 81-3



		81-3 Enabled
Op		
	general	81-3 Operated
Str		
	dirGeneral	Non-Directional
	general	81-3 Pickup

**2.1.52 A81PTOF4**

Beh		
	stVal	Out of Service
		Inhibit 81-4
		81-4 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 81-4
		81-4 Enabled
Op		
	general	81-4 Operated
Str		
	dirGeneral	Non-Directional
	general	81-4 Pickup

**2.1.53 A81PTUF1**

Beh		
	stVal	Out of Service
		Inhibit 81-1
		81-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 81-1
		81-1 Enabled
Op		
	general	81-1 Operated
Str		

	dirGeneral	Non-Directional
	general	81-1 Pickup

**2.1.54 A81PTUF2**

Beh		
	stVal	Out of Service
		Inhibit 81-2
		81-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 81-2
		81-2 Enabled
Op		
	general	81-2 Operated
Str		
	dirGeneral	Non-Directional
	general	81-2 Pickup

**2.1.55 A81PTUF3**

Beh		
	stVal	Out of Service
		Inhibit 81-3
		81-3 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 81-3
		81-3 Enabled
Op		
	general	81-3 Operated
Str		
	dirGeneral	Non-Directional
	general	81-3 Pickup

**2.1.56 A81PTUF4**

Beh		
	stVal	Out of Service
		Inhibit 81-4
		81-4 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit 81-4
		81-4 Enabled
Op		
	general	81-4 Operated
Str		
	dirGeneral	Non-Directional
	general	81-4 Pickup

**2.1.57 LLN0**

Beh		
	stVal	Protection Active
		Out of Service
Health		
	stVal	Protection Healthy
Mod		
	stVal	Protection Active
		Out of Service
NamPlt		
	swRev	Software Revision
	vendor	Vendor Name
SGCB		
	ActSG	Active Setting Group 1
		Active Setting Group 2
		Active Setting Group 3
		Active Setting Group 4
	LActTm	Active Setting Group 1
		Active Setting Group 2
		Active Setting Group 3

		Active Setting Group 4
	NumOfSG	Number of 61850 Controllable Setting Groups

**2.1.58 PTRC1**

Beh		
	stVal	Protection Active
		Out of Service
Health		
	stVal	Protection Healthy
Mod		
	stVal	Protection Active
Op		
	general	General Operate
OpCntRs		
	Oper.ctlVal	Set CB Trip Count
	stVal	CB Trip Count
Str		
	dirGeneral	General Pickup
		General Pickup & Fwd Direction
		General Pickup & Rev Direction
	general	General Pickup
Tr		
	general	CB Trip

**2.1.59 RFLO1**

Beh		
	stVal	Protection Active
		Out of Service
Health		
	stVal	Protection Healthy
Mod		
	stVal	Protection Active
FltDiskm		
	mag.f	Fault Distance in km
FltZ		
	mag.f	Fault Impedance

**2.1.60 RSYN1**

Beh		
	stVal	Protection Active
		Out of Service
Health		
	stVal	Protection Healthy
Mod		
	stVal	Protection Active
DifAngClc		
	mag.f	Angle Difference
DifHzClc		
	mag.f	Frequency Difference
DifVClc		
	mag.f	Voltage Difference
AngInd		
	stVal	Angle Indication
HzInd		
	stVal	Frequency Indication
VInd		
	stVal	Voltage Indication
Rel		
	stVal	Release
SynPrg		
	stVal	Sync in Progress

**2.1.61 Vx2759PTOV1**

Beh		
	stVal	Out of Service
		Inhibit Vx 27/59-1
		Vx 27/59-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit Vx 27/59-1
		Vx 27/59-1 Enabled
Op		
	general	Vx 27/59-1 Operated
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	Vx 27/59-1 PhA Pickup
		Vx 27/59-1 PhB Pickup
		Vx 27/59-1 PhC Pickup
	phsA	Vx 27/59-1 PhA Pickup
	phsB	Vx 27/59-1 PhB Pickup
	phsC	Vx 27/59-1 PhC Pickup

**2.1.62 Vx2759PTOV2**

Beh		
	stVal	Out of Service
		Inhibit Vx 27/59-2
		Vx 27/59-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit Vx 27/59-2
		Vx 27/59-2 Enabled
Op		
	general	Vx 27/59-2 Operated

Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	Vx 27/59-2 PhA Pickup
		Vx 27/59-2 PhB Pickup
		Vx 27/59-2 PhC Pickup
	phsA	Vx 27/59-2 PhA Pickup
	phsB	Vx 27/59-2 PhB Pickup
	phsC	Vx 27/59-2 PhC Pickup

### 2.1.63 Vx2759PTOV3

Beh		
	stVal	Out of Service
		Inhibit Vx 27/59-3
		Vx 27/59-3 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit Vx 27/59-3
		Vx 27/59-3 Enabled
Op		
	general	Vx 27/59-3 Operated
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	Vx 27/59-3 PhA Pickup
		Vx 27/59-3 PhB Pickup
		Vx 27/59-3 PhC Pickup
	phsA	Vx 27/59-3 PhA Pickup
	phsB	Vx 27/59-3 PhB Pickup
	phsC	Vx 27/59-3 PhC Pickup

**2.1.64 Vx2759PTOV4**

Beh		
	stVal	Out of Service
		Inhibit Vx 27/59-4
		Vx 27/59-4 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit Vx 27/59-4
		Vx 27/59-4 Enabled
Op		
	general	Vx 27/59-4 Operated
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	Vx 27/59-4 PhA Pickup
		Vx 27/59-4 PhB Pickup
		Vx 27/59-4 PhC Pickup
	phsA	Vx 27/59-4 PhA Pickup
	phsB	Vx 27/59-4 PhB Pickup
	phsC	Vx 27/59-4 PhC Pickup

**2.1.65 Vx2759PTUV1**

Beh		
	stVal	Out of Service
		Inhibit Vx 27/59-1
		Vx 27/59-1 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit Vx 27/59-1
		Vx 27/59-1 Enabled
Op		
	general	Vx 27/59-1 Operated



Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	Vx 27/59-1 PhA Pickup
		Vx 27/59-1 PhB Pickup
		Vx 27/59-1 PhC Pickup
	phsA	Vx 27/59-1 PhA Pickup
	phsB	Vx 27/59-1 PhB Pickup
	phsC	Vx 27/59-1 PhC Pickup

### 2.1.66 Vx2759PTUV2

Beh		
	stVal	Out of Service
		Inhibit Vx 27/59-2
		Vx 27/59-2 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit Vx 27/59-2
		Vx 27/59-2 Enabled
Op		
	general	Vx 27/59-2 Operated
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	Vx 27/59-2 PhA Pickup
		Vx 27/59-2 PhB Pickup
		Vx 27/59-2 PhC Pickup
	phsA	Vx 27/59-2 PhA Pickup
	phsB	Vx 27/59-2 PhB Pickup
	phsC	Vx 27/59-2 PhC Pickup

**2.1.67 Vx2759PTUV3**

Beh		
	stVal	Out of Service
		Inhibit Vx 27/59-3
		Vx 27/59-3 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit Vx 27/59-3
		Vx 27/59-3 Enabled
Op		
	general	Vx 27/59-3 Operated
Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	Vx 27/59-3 PhA Pickup
		Vx 27/59-3 PhB Pickup
		Vx 27/59-3 PhC Pickup
	phsA	Vx 27/59-3 PhA Pickup
	phsB	Vx 27/59-3 PhB Pickup
	phsC	Vx 27/59-3 PhC Pickup

**2.1.68 Vx2759PTUV4**

Beh		
	stVal	Out of Service
		Inhibit Vx 27/59-4
		Vx 27/59-4 Enabled
Health		
	stVal	Protection Healthy
Mod		
	stVal	Inhibit Vx 27/59-4
		Vx 27/59-4 Enabled
Op		
	general	Vx 27/59-4 Operated

Str		
	dirGeneral	Non-Directional
	dirPhsA	Non-Directional
	dirPhsB	Non-Directional
	dirPhsC	Non-Directional
	general	Vx 27/59-4 PhA Pickup
		Vx 27/59-4 PhB Pickup
		Vx 27/59-4 PhC Pickup
	phsA	Vx 27/59-4 PhA Pickup
	phsB	Vx 27/59-4 PhB Pickup
	phsC	Vx 27/59-4 PhC Pickup

## 2.2 MEAS

### 2.2.1 I\_MSQI1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
SeqA		
	c1.cVal.ang.f	Current I Seq
	c1.cVal.mag.f	Current I Seq
	c1.instCVal.ang.f	Current I Seq
	c1.instCVal.mag.f	Current I Seq
	c1.units.multiplier	Current I Seq
	c1.units.SIUnit	Current I Seq
	c2.cVal.ang.f	Current I Seq PhB
	c2.cVal.mag.f	Current I Seq PhB
	c2.instCVal.ang.f	Current I Seq PhB
	c2.instCVal.mag.f	Current I Seq PhB
	c2.units.multiplier	Current I Seq PhB
	c2.units.SIUnit	Current I Seq PhB
	c3.cVal.ang.f	Current I Seq PhC
	c3.cVal.mag.f	Current I Seq PhC
	c3.instCVal.ang.f	Current I Seq PhC
	c3.instCVal.mag.f	Current I Seq PhC

	c3.units.multiplier	Current I Seq PhC
	c3.units.SIUnit	Current I Seq PhC

### 2.2.2 LLN0

Beh		
	stVal	Protection Healthy
		Out of Service
Health		
	stVal	Protection Healthy
Mod		
	stVal	Protection Healthy
		Out of Service
NamPlt		
	swRev	Software Revision
	vendor	Vendor Name

### 2.2.3 V\_MSQI1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
SeqV		
	c1.cVal.ang.f	Voltage V Seq
	c1.cVal.mag.f	Voltage V Seq
	c1.instCVal.ang.f	Voltage V Seq
	c1.instCVal.mag.f	Voltage V Seq
	c1.units.multiplier	Voltage V Seq
	c1.units.SIUnit	Voltage V Seq
	c2.cVal.ang.f	Voltage V Seq PhB
	c2.cVal.mag.f	Voltage V Seq PhB
	c2.instCVal.ang.f	Voltage V Seq PhB
	c2.instCVal.mag.f	Voltage V Seq PhB
	c2.units.multiplier	Voltage V Seq PhB
	c2.units.SIUnit	Voltage V Seq PhB
	c3.cVal.ang.f	Voltage V Seq PhC
	c3.cVal.mag.f	Voltage V Seq PhC

	c3.instCVal.ang.f	Voltage V Seq PhC
	c3.instCVal.mag.f	Voltage V Seq PhC
	c3.units.multiplier	Voltage V Seq PhC
	c3.units.SIUnit	Voltage V Seq PhC

## 2.2.4 V1\_MSQI1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
SeqV		
	c1.cVal.ang.f	Voltage V Seq
	c1.cVal.mag.f	Voltage V Seq
	c1.instCVal.ang.f	Voltage V Seq
	c1.instCVal.mag.f	Voltage V Seq
	c1.units.multiplier	Voltage V Seq
	c1.units.SIUnit	Voltage V Seq
	c2.cVal.ang.f	Voltage V Seq PhB
	c2.cVal.mag.f	Voltage V Seq PhB
	c2.instCVal.ang.f	Voltage V Seq PhB
	c2.instCVal.mag.f	Voltage V Seq PhB
	c2.units.multiplier	Voltage V Seq PhB
	c2.units.SIUnit	Voltage V Seq PhB
	c3.cVal.ang.f	Voltage V Seq PhC
	c3.cVal.mag.f	Voltage V Seq PhC
	c3.instCVal.ang.f	Voltage V Seq PhC
	c3.instCVal.mag.f	Voltage V Seq PhC
	c3.units.multiplier	Voltage V Seq PhC
	c3.units.SIUnit	Voltage V Seq PhC

## 2.2.5 V2\_MSQI1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
SeqV		
	c1.cVal.ang.f	Voltage V Seq
	c1.cVal.mag.f	Voltage V Seq
	c1.instCVal.ang.f	Voltage V Seq
	c1.instCVal.mag.f	Voltage V Seq
	c1.units.multiplier	Voltage V Seq
	c1.units.SIUnit	Voltage V Seq
	c2.cVal.ang.f	Voltage V Seq PhB
	c2.cVal.mag.f	Voltage V Seq PhB
	c2.instCVal.ang.f	Voltage V Seq PhB
	c2.instCVal.mag.f	Voltage V Seq PhB
	c2.units.multiplier	Voltage V Seq PhB
	c2.units.SIUnit	Voltage V Seq PhB
	c3.cVal.ang.f	Voltage V Seq PhC
	c3.cVal.mag.f	Voltage V Seq PhC
	c3.instCVal.ang.f	Voltage V Seq PhC
	c3.instCVal.mag.f	Voltage V Seq PhC
	c3.units.multiplier	Voltage V Seq PhC
	c3.units.SIUnit	Voltage V Seq PhC

## 2.3 DR

### 2.3.1 LLN0

Beh		
	stVal	Protection Healthy
		Out of Service
Health		
	stVal	Protection Healthy
Mod		
	stVal	Protection Healthy
		Out of Service

NamPit		
	swRev	Software Revision
	vendor	Vendor Name

### 2.3.2 RDRE1

Beh		
	stVal	Protection Healthy
		Out of Service
FltNum		
	stVal	Fault Number
GriFltNum		
	stVal	Grid Fault Number
Health		
	stVal	Protection Healthy
Mod		
	stVal	Protection Healthy
RcdMade		
	stVal	Recording Made

## 2.4 CTRL

### 2.4.1 BI33GGIO1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Ind1		
	stVal	Binary Input 1
Ind10		
	stVal	Binary Input 10
Ind11		
	stVal	Binary Input 11
Ind12		
	stVal	Binary Input 12
Ind13		

	stVal	Binary Input 13
Ind14		
	stVal	Binary Input 14
Ind15		
	stVal	Binary Input 15
Ind16		
	stVal	Binary Input 16
Ind17		
	stVal	Binary Input 17
Ind18		
	stVal	Binary Input 18
Ind19		
	stVal	Binary Input 19
Ind2		
	stVal	Binary Input 2
Ind20		
	stVal	Binary Input 20
Ind21		
	stVal	Binary Input 21
Ind22		
	stVal	Binary Input 22
Ind23		
	stVal	Binary Input 23
Ind24		
	stVal	Binary Input 24
Ind25		
	stVal	Binary Input 25
Ind26		
	stVal	Binary Input 26
Ind27		
	stVal	Binary Input 27
Ind28		
	stVal	Binary Input 28
Ind29		
	stVal	Binary Input 29
Ind3		



	stVal	Binary Input 3
Ind30		
	stVal	Binary Input 30
Ind31		
	stVal	Binary Input 31
Ind32		
	stVal	Binary Input 32
Ind33		
	stVal	Binary Input 33
Ind4		
	stVal	Binary Input 4
Ind5		
	stVal	Binary Input 5
Ind6		
	stVal	Binary Input 6
Ind7		
	stVal	Binary Input 7
Ind8		
	stVal	Binary Input 8
Ind9		
	stVal	Binary Input 9

#### 2.4.2 BO14GGIO1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Ind1		
	stVal	Binary Output 1
Ind10		
	stVal	Binary Output 10
Ind11		
	stVal	Binary Output 11
Ind12		
	stVal	Binary Output 12
Ind13		

	stVal	Binary Output 13
Ind14		
	stVal	Binary Output 14
Ind2		
	stVal	Binary Output 2
Ind3		
	stVal	Binary Output 3
Ind4		
	stVal	Binary Output 4
Ind5		
	stVal	Binary Output 5
Ind6		
	stVal	Binary Output 6
Ind7		
	stVal	Binary Output 7
Ind8		
	stVal	Binary Output 8
Ind9		
	stVal	Binary Output 9

### 2.4.3 CntDelGGIO1

Beh		
	stVal	CB Delta Trip Count Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB Delta Trip Count
ISCSO2		
	stVal	CB Delta Trip Count Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB Delta Trip Count Enabled
SPCSO		
	stVal	CB Delta Trip Count Operated

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#### 2.4.4 CntEFGGIO1

Beh		
	stVal	CB E/F Trip Count Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB E/F Trip Count
ISCSO2		
	stVal	CB E/F Trip Count Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB E/F Trip Count Enabled
SPCSO		
	stVal	CB E/F Trip Count Operated

#### 2.4.5 CntLOGGIO1

Beh		
	stVal	CB Count To AR Block Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB Count To AR Block
ISCSO2		
	stVal	CB Count To AR Block Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB Count To AR Block Enabled
SPCSO		
	stVal	CB Count To AR Block Operated

**2.4.6 CntPhAGGIO1**

Beh		
	stVal	CB Ph A Trip Count Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB Ph A Trip Count
ISCSO2		
	stVal	CB Ph A Trip Count Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB Ph A Trip Count Enabled
SPCSO		
	stVal	CB Ph A Trip Count Operated

**2.4.7 CntPhBGGIO1**

Beh		
	stVal	CB Ph B Trip Count Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB Ph B Trip Count
ISCSO2		
	stVal	CB Ph B Trip Count Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB Ph B Trip Count Enabled
SPCSO		
	stVal	CB Ph B Trip Count Operated

**2.4.8 CntPhCGGIO1**

Beh		
-----	--	--

	stVal	CB Ph C Trip Count Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB Ph C Trip Count
ISCSO2		
	stVal	CB Ph C Trip Count Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB Ph C Trip Count Enabled
SPCSO		
	stVal	CB Ph C Trip Count Operated

#### 2.4.9 CntDelIAGGIO1

Beh		
	stVal	CB-A Delta TripCount Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB-A Delta TripCount
ISCSO2		
	stVal	CB-A Delta TripCount Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB-A Delta TripCount Enabled
SPCSO		
	stVal	CB-A Delta TripCount Operated

#### 2.4.10 CntDelIBGGIO1

Beh		
	stVal	CB-B Delta TripCount Enabled
		Out of Service

Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB-B Delta TripCount
ISCSO2		
	stVal	CB-B Delta TripCount Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB-B Delta TripCount Enabled
SPCSO		
	stVal	CB-B Delta TripCount Operated

#### 2.4.11 CntDelCGGIO1

Beh		
	stVal	CB-C Delta TripCount Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB-C Delta TripCount
ISCSO2		
	stVal	CB-C Delta TripCount Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB-C Delta TripCount Enabled
SPCSO		
	stVal	CB-C Delta TripCount Operated

#### 2.4.12 CntLOAGGIO1

Beh		
	stVal	CB-A Count - ARBlock Enabled
		Out of Service
Health		
	stVal	Protection Healthy

ISCSO1		
	stVal	CB-A Count - ARBlock
ISCSO2		
	stVal	CB-A Count - ARBlock Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB-A Count - ARBlock Enabled
SPCSO		
	stVal	CB-A Count - ARBlock Operated

#### 2.4.13 CntLOBGGIO1

Beh		
	stVal	CB-B Count - ARBlock Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB-B Count - ARBlock
ISCSO2		
	stVal	CB-B Count - ARBlock Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB-B Count - ARBlock Enabled
SPCSO		
	stVal	CB-B Count - ARBlock Operated

#### 2.4.14 CntLOCGIO1

Beh		
	stVal	CB-C Count - ARBlock Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB-C Count - ARBlock

ISCSO2		
	stVal	CB-C Count - ARBlock Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB-C Count - ARBlock Enabled
SPCSO		
	stVal	CB-C Count - ARBlock Operated

#### 2.4.15 CntTotAGGIO1

Beh		
	stVal	CB-A Total TripCount Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB-A Total TripCount
ISCSO2		
	stVal	CB-A Total TripCount Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB-A Total TripCount Enabled
SPCSO		
	stVal	CB-A Total TripCount Operated

#### 2.4.16 CntTotBGGIO1

Beh		
	stVal	CB-B Total TripCount Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB-B Total TripCount
ISCSO2		
	stVal	CB-B Total TripCount Target



Loc		
	stVal	Local Mode
Mod		
	stVal	CB-B Total TripCount Enabled
SPCSO		
	stVal	CB-B Total TripCount Operated

**2.4.17 CntTotCGGIO1**

Beh		
	stVal	CB-C Total TripCount Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB-C Total TripCount
ISCSO2		
	stVal	CB-C Total TripCount Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB-C Total TripCount Enabled
SPCSO		
	stVal	CB-C Total TripCount Operated

**2.4.18 DPDOesGGIO1**

Beh		
	stVal	Out of Service
DPCSO		
	Oper.ctlVal	DPDOes 1 Control
	stVal	DPDOes 1 Status
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode

**2.4.19 DPDOesGGIO2**

Beh		
	stVal	Out of Service
DPCSO		
	Oper.ctlVal	DPDOes 2 Control
	stVal	DPDOes 2 Status
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode

**2.4.20 DPDOesGGIO3**

Beh		
	stVal	Out of Service
DPCSO		
	Oper.ctlVal	DPDOes 3 Control
	stVal	DPDOes 3 Status
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode

**2.4.21 DPDOesGGIO4**

Beh		
	stVal	Out of Service
DPCSO		
	Oper.ctlVal	DPDOes 4 Control
	stVal	DPDOes 4 Status
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode

**2.4.22 DPDOnsGGIO1**

Beh		
	stVal	Out of Service
DPCSO		
	Oper.ctlVal	DPDOns 1 Control
	stVal	DPDOns 1 Status
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode

**2.4.23 DPDOnsGGIO2**

Beh		
	stVal	Out of Service
DPCSO		
	Oper.ctlVal	DPDOns 2 Control
	stVal	DPDOns 2 Status
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode

**2.4.24 DPDOsGGIO3**

Beh		
	stVal	Out of Service
DPCSO		
	Oper.ctlVal	DPDOs 3 Control
	stVal	DPDOs 3 Status
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode

**2.4.25 DPDOsGGIO4**

Beh		
	stVal	Out of Service
DPCSO		
	Oper.ctlVal	DPDOs 4 Control
	stVal	DPDOs 4 Status
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode

**2.4.26 DPi8GGIO1**

Beh		
	stVal	Out of Service
DPCSO1		
	ctlVal	DPi8GGIO1 DPCSO 1
DPCSO2		
	ctlVal	DPi8GGIO1 DPCSO 2
DPCSO3		
	ctlVal	DPi8GGIO1 DPCSO 3
DPCSO4		
	ctlVal	DPi8GGIO1 DPCSO 4
DPCSO5		
	ctlVal	DPi8GGIO1 DPCSO 5
DPCSO6		

	ctlVal	DPi8GGIO1 DPCSO 6
DPCSO7		
	ctlVal	DPi8GGIO1 DPCSO 7
DPCSO8		
	ctlVal	DPi8GGIO1 DPCSO 8
Health		
	stVal	Protection Healthy

#### 2.4.27 DPi8GGIO2

Beh		
	stVal	Out of Service
DPCSO1		
	ctlVal	DPi8GGIO2 DPCSO 1
DPCSO2		
	ctlVal	DPi8GGIO2 DPCSO 2
DPCSO3		
	ctlVal	DPi8GGIO2 DPCSO 3
DPCSO4		
	ctlVal	DPi8GGIO2 DPCSO 4
DPCSO5		
	ctlVal	DPi8GGIO2 DPCSO 5
DPCSO6		
	ctlVal	DPi8GGIO2 DPCSO 6
DPCSO7		
	ctlVal	DPi8GGIO2 DPCSO 7
DPCSO8		
	ctlVal	DPi8GGIO2 DPCSO 8
Health		
	stVal	Protection Healthy

**2.4.28 DPo8GGIO1**

Beh		
	stVal	Out of Service
DPCSO1		
	stVal	DPo8GGIO1 Ind 1
DPCSO2		
	stVal	DPo8GGIO1 Ind 2
DPCSO3		
	stVal	DPo8GGIO1 Ind 3
DPCSO4		
	stVal	DPo8GGIO1 Ind 4
DPCSO5		
	stVal	DPo8GGIO1 Ind 5
DPCSO6		
	stVal	DPo8GGIO1 Ind 6
DPCSO7		
	stVal	DPo8GGIO1 Ind 7
DPCSO8		
	stVal	DPo8GGIO1 Ind 8
Health		
	stVal	Protection Healthy

**2.4.29 DPo8GGIO2**

Beh		
	stVal	Out of Service
DPCSO1		
	stVal	DPo8GGIO2 Ind 1
DPCSO2		
	stVal	DPo8GGIO2 Ind 2
DPCSO3		
	stVal	DPo8GGIO2 Ind 3
DPCSO4		
	stVal	DPo8GGIO2 Ind 4
DPCSO5		
	stVal	DPo8GGIO2 Ind 5
DPCSO6		

	stVal	DPo8GGIO2 Ind 6
DPCSO7		
	stVal	DPo8GGIO2 Ind 7
DPCSO8		
	stVal	DPo8GGIO2 Ind 8
Health		
	stVal	Protection Healthy

### 2.4.30 E16GGIO1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Ind1		
	stVal	Quick Logic Equation 1
Ind10		
	stVal	Quick Logic Equation 10
Ind11		
	stVal	Quick Logic Equation 11
Ind12		
	stVal	Quick Logic Equation 12
Ind13		
	stVal	Quick Logic Equation 13
Ind14		
	stVal	Quick Logic Equation 14
Ind15		
	stVal	Quick Logic Equation 15
Ind16		
	stVal	Quick Logic Equation 16
Ind2		
	stVal	Quick Logic Equation 2
Ind3		
	stVal	Quick Logic Equation 3
Ind4		
	stVal	Quick Logic Equation 4
Ind5		

	stVal	Quick Logic Equation 5
Ind6		
	stVal	Quick Logic Equation 6
Ind7		
	stVal	Quick Logic Equation 7
Ind8		
	stVal	Quick Logic Equation 8
Ind9		
	stVal	Quick Logic Equation 9

### 2.4.31 L28GGIO1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Ind1		
	stVal	LED 1
Ind10		
	stVal	LED 10
Ind11		
	stVal	LED 11
Ind12		
	stVal	LED 12
Ind13		
	stVal	LED 13
Ind14		
	stVal	LED 14
Ind15		
	stVal	LED 15
Ind16		
	stVal	LED 16
Ind17		
	stVal	LED 17
Ind18		
	stVal	LED 18
Ind19		



	stVal	LED 19
Ind2		
	stVal	LED 2
Ind20		
	stVal	LED 20
Ind21		
	stVal	LED 21
Ind22		
	stVal	LED 22
Ind23		
	stVal	LED 23
Ind24		
	stVal	LED 24
Ind25		
	stVal	LED 25
Ind26		
	stVal	LED 26
Ind27		
	stVal	LED 27
Ind28		
	stVal	LED 28
Ind3		
	stVal	LED 3
Ind4		
	stVal	LED 4
Ind5		
	stVal	LED 5
Ind6		
	stVal	LED 6
Ind7		
	stVal	LED 7
Ind8		
	stVal	LED 8
Ind9		
	stVal	LED 9

**2.4.32 LLN0**

Beh		
	stVal	Out of Service
		Protection Healthy
Health		
	stVal	Protection Healthy
LEDRs		
	stVal	LED Reset
Loc		
	stVal	Local Mode
Mod		
	stVal	Out of Service
		Protection Healthy
NamPlt		
	swRev	Software Revision
	vendor	Vendor Name

**2.4.33 OpsLOGGIO1**

Beh		
	stVal	CB LO Handle Ops Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB LO Handle Ops
ISCSO2		
	stVal	CB LO Handle Ops Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB LO Handle Ops Enabled
SPCSO		
	stVal	CB LO Handle Ops Operated

**2.4.34 OpsLOAGGIO1**

Beh		
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	stVal	CB-A LO Handle Ops Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB-A LO Handle Ops
ISCSO2		
	stVal	CB-A LO Handle Ops Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB-A LO Handle Ops Enabled
SPCSO		
	stVal	CB-A LO Handle Ops Operated

#### 2.4.35 OpsLOBGGIO1

Beh		
	stVal	CB-B LO Handle Ops Enabled
		Out of Service
Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB-B LO Handle Ops
ISCSO2		
	stVal	CB-B LO Handle Ops Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB-B LO Handle Ops Enabled
SPCSO		
	stVal	CB-B LO Handle Ops Operated

#### 2.4.36 OpsLOCGGIO1

Beh		
	stVal	CB-C LO Handle Ops Enabled
		Out of Service

Health		
	stVal	Protection Healthy
ISCSO1		
	stVal	CB-C LO Handle Ops
ISCSO2		
	stVal	CB-C LO Handle Ops Target
Loc		
	stVal	Local Mode
Mod		
	stVal	CB-C LO Handle Ops Enabled
SPCSO		
	stVal	CB-C LO Handle Ops Operated

**2.4.37 Q0CILO1**

Beh		
	stVal	Out of Service
EnaCls		
	stVal	Not CB Control Close Block
EnaOpn		
	stVal	Not CB Control Open Block
Health		
	stVal	Protection Healthy

**2.4.38 Q0CILO1**

Beh		
	stVal	Out of Service
EnaCls		
	stVal	Not CB-A Control Close Block
EnaOpn		
	stVal	Not CB-A Control Open Block
Health		
	stVal	Protection Healthy

**2.4.39 Q0CILO2**

Beh		
-----	--	--

	stVal	Out of Service
EnaCls		
	stVal	Not CB-B Control Close Block
EnaOpn		
	stVal	Not CB-B Control Open Block
Health		
	stVal	Protection Healthy

**2.4.40 Q0CILO3**

Beh		
	stVal	Out of Service
EnaCls		
	stVal	Not CB-C Control Close Block
EnaOpn		
	stVal	Not CB-C Control Open Block
Health		
	stVal	Protection Healthy

**2.4.41 Q0CSWI1**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
Pos		
	Oper.ctlVal	CB Control
	stVal	CB Status

**2.4.42 Q0CSWI1**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
Pos		
	Oper.ctlVal	CB-A Control
	stVal	CB-A Status

**2.4.43 Q0CSWI2**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
Pos		
	Oper.ctlVal	CB-B Control
	stVal	CB-B Status

**2.4.44 Q0CSWI3**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
Pos		
	Oper.ctlVal	CB-C Control
	stVal	CB-C Status

**2.4.45 Q0XCBR1**

Beh		
	stVal	Out of Service
BlkCls		
	stVal	CB Control Close Block
BlkOpn		
	stVal	CB Control Open Block
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
OpCnt		
	stVal	CB Operations Counter
Pos		
	stVal	CB Status
SumSwARs1		
	actVal	CB Wear PhA
SumSwARs2		
	actVal	CB Wear PhB
SumSwARs3		
	actVal	CB Wear PhC

**2.4.46 Q0XCBR1**

Beh		
	stVal	Out of Service
BlkCls		
	stVal	CB-A Control Close Block
BlkOpn		
	stVal	CB-A Control Open Block
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
OpCnt		
	stVal	CB-A Operations Counter
Pos		

	stVal	CB-A Status
SumSwARs		
	actVal	CB-A Wear

**2.4.47 Q0XCBR2**

Beh		
	stVal	Out of Service
BlkCls		
	stVal	CB-B Control Close Block
BlkOpn		
	stVal	CB-B Control Open Block
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
OpCnt		
	stVal	CB-B Operations Counter
Pos		
	stVal	CB-B Status
SumSwARs		
	actVal	CB-B Wear

**2.4.48 Q0XCBR3**

Beh		
	stVal	Out of Service
BlkCls		
	stVal	CB-C Control Close Block
BlkOpn		
	stVal	CB-C Control Open Block
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
OpCnt		
	stVal	CB-C Operations Counter
Pos		



	stVal	CB-C Status
SumSwARs		
	actVal	CB-C Wear

**2.4.49 SPDOesGGIO1**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
SPCSO		
	Oper.ctlVal	SPDOes 1 Control
	stVal	SPDOes 1 Status

**2.4.50 SPDOesGGIO2**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
SPCSO		
	Oper.ctlVal	SPDOes 2 Control
	stVal	SPDOes 2 Status

**2.4.51 SPDOesGGIO3**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
SPCSO		
	Oper.ctlVal	SPDOes 3 Control

	stVal	SPDOes 3 Status

**2.4.52 SPDOesGGIO4**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
SPCSO		
	Oper.ctlVal	SPDOes 4 Control
	stVal	SPDOes 4 Status

**2.4.53 SPDOsGGIO1**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
SPCSO		
	Oper.ctlVal	SPDOs 1 Control
	stVal	SPDOs 1 Status

**2.4.54 SPDOsGGIO2**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
SPCSO		
	Oper.ctlVal	SPDOs 2 Control
	stVal	SPDOs 2 Status

**2.4.55 SPDOnsGGIO3**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
SPCSO		
	Oper.ctlVal	SPDOns 3 Control
	stVal	SPDOns 3 Status

**2.4.56 SPDOnsGGIO4**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Loc		
	stVal	Local Mode
SPCSO		
	Oper.ctlVal	SPDOns 4 Control
	stVal	SPDOns 4 Status

**2.4.57 SPi64GGIO1**

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
SPCSO1		
	ctlVal	SPi64GGIO1 SPCSO 1
SPCSO10		
	ctlVal	SPi64GGIO1 SPCSO 10
SPCSO11		
	ctlVal	SPi64GGIO1 SPCSO 11
SPCSO12		
	ctlVal	SPi64GGIO1 SPCSO 12
SPCSO13		

	ctlVal	SPi64GGIO1 SPCSO 13
SPCSO14		
	ctlVal	SPi64GGIO1 SPCSO 14
SPCSO15		
	ctlVal	SPi64GGIO1 SPCSO 15
SPCSO16		
	ctlVal	SPi64GGIO1 SPCSO 16
SPCSO17		
	ctlVal	SPi64GGIO1 SPCSO 17
SPCSO18		
	ctlVal	SPi64GGIO1 SPCSO 18
SPCSO19		
	ctlVal	SPi64GGIO1 SPCSO 19
SPCSO2		
	ctlVal	SPi64GGIO1 SPCSO 2
SPCSO20		
	ctlVal	SPi64GGIO1 SPCSO 20
SPCSO21		
	ctlVal	SPi64GGIO1 SPCSO 21
SPCSO22		
	ctlVal	SPi64GGIO1 SPCSO 22
SPCSO23		
	ctlVal	SPi64GGIO1 SPCSO 23
SPCSO24		
	ctlVal	SPi64GGIO1 SPCSO 24
SPCSO25		
	ctlVal	SPi64GGIO1 SPCSO 25
SPCSO26		
	ctlVal	SPi64GGIO1 SPCSO 26
SPCSO27		
	ctlVal	SPi64GGIO1 SPCSO 27
SPCSO28		
	ctlVal	SPi64GGIO1 SPCSO 28
SPCSO29		
	ctlVal	SPi64GGIO1 SPCSO 29
SPCSO3		

	ctlVal	SPi64GGIO1 SPCSO 3
SPCSO30		
	ctlVal	SPi64GGIO1 SPCSO 30
SPCSO31		
	ctlVal	SPi64GGIO1 SPCSO 31
SPCSO32		
	ctlVal	SPi64GGIO1 SPCSO 32
SPCSO33		
	ctlVal	SPi64GGIO1 SPCSO 33
SPCSO34		
	ctlVal	SPi64GGIO1 SPCSO 34
SPCSO35		
	ctlVal	SPi64GGIO1 SPCSO 35
SPCSO36		
	ctlVal	SPi64GGIO1 SPCSO 36
SPCSO37		
	ctlVal	SPi64GGIO1 SPCSO 37
SPCSO38		
	ctlVal	SPi64GGIO1 SPCSO 38
SPCSO39		
	ctlVal	SPi64GGIO1 SPCSO 39
SPCSO4		
	ctlVal	SPi64GGIO1 SPCSO 4
SPCSO40		
	ctlVal	SPi64GGIO1 SPCSO 40
SPCSO41		
	ctlVal	SPi64GGIO1 SPCSO 41
SPCSO42		
	ctlVal	SPi64GGIO1 SPCSO 42
SPCSO43		
	ctlVal	SPi64GGIO1 SPCSO 43
SPCSO44		
	ctlVal	SPi64GGIO1 SPCSO 44
SPCSO45		
	ctlVal	SPi64GGIO1 SPCSO 45
SPCSO46		

	ctlVal	SPi64GGIO1 SPCSO 46
SPCSO47		
	ctlVal	SPi64GGIO1 SPCSO 47
SPCSO48		
	ctlVal	SPi64GGIO1 SPCSO 48
SPCSO49		
	ctlVal	SPi64GGIO1 SPCSO 49
SPCSO5		
	ctlVal	SPi64GGIO1 SPCSO 5
SPCSO50		
	ctlVal	SPi64GGIO1 SPCSO 50
SPCSO51		
	ctlVal	SPi64GGIO1 SPCSO 51
SPCSO52		
	ctlVal	SPi64GGIO1 SPCSO 52
SPCSO53		
	ctlVal	SPi64GGIO1 SPCSO 53
SPCSO54		
	ctlVal	SPi64GGIO1 SPCSO 54
SPCSO55		
	ctlVal	SPi64GGIO1 SPCSO 55
SPCSO56		
	ctlVal	SPi64GGIO1 SPCSO 56
SPCSO57		
	ctlVal	SPi64GGIO1 SPCSO 57
SPCSO58		
	ctlVal	SPi64GGIO1 SPCSO 58
SPCSO59		
	ctlVal	SPi64GGIO1 SPCSO 59
SPCSO6		
	ctlVal	SPi64GGIO1 SPCSO 6
SPCSO60		
	ctlVal	SPi64GGIO1 SPCSO 60
SPCSO61		
	ctlVal	SPi64GGIO1 SPCSO 61
SPCSO62		

	ctlVal	SPi64GGIO1 SPCSO 62
SPCSO63		
	ctlVal	SPi64GGIO1 SPCSO 63
SPCSO64		
	ctlVal	SPi64GGIO1 SPCSO 64
SPCSO7		
	ctlVal	SPi64GGIO1 SPCSO 7
SPCSO8		
	ctlVal	SPi64GGIO1 SPCSO 8
SPCSO9		
	ctlVal	SPi64GGIO1 SPCSO 9

#### 2.4.58 SPo32GGIO1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Ind1		
	stVal	SPo32GGIO1 Ind 1
Ind10		
	stVal	SPo32GGIO1 Ind 10
Ind11		
	stVal	SPo32GGIO1 Ind 11
Ind12		
	stVal	SPo32GGIO1 Ind 12
Ind13		
	stVal	SPo32GGIO1 Ind 13
Ind14		
	stVal	SPo32GGIO1 Ind 14
Ind15		
	stVal	SPo32GGIO1 Ind 15
Ind16		
	stVal	SPo32GGIO1 Ind 16
Ind17		
	stVal	SPo32GGIO1 Ind 17
Ind18		

	stVal	SPo32GGIO1 Ind 18
Ind19		
	stVal	SPo32GGIO1 Ind 19
Ind2		
	stVal	SPo32GGIO1 Ind 2
Ind20		
	stVal	SPo32GGIO1 Ind 20
Ind21		
	stVal	SPo32GGIO1 Ind 21
Ind22		
	stVal	SPo32GGIO1 Ind 22
Ind23		
	stVal	SPo32GGIO1 Ind 23
Ind24		
	stVal	SPo32GGIO1 Ind 24
Ind25		
	stVal	SPo32GGIO1 Ind 25
Ind26		
	stVal	SPo32GGIO1 Ind 26
Ind27		
	stVal	SPo32GGIO1 Ind 27
Ind28		
	stVal	SPo32GGIO1 Ind 28
Ind29		
	stVal	SPo32GGIO1 Ind 29
Ind3		
	stVal	SPo32GGIO1 Ind 3
Ind30		
	stVal	SPo32GGIO1 Ind 30
Ind31		
	stVal	SPo32GGIO1 Ind 31
Ind32		
	stVal	SPo32GGIO1 Ind 32
Ind4		
	stVal	SPo32GGIO1 Ind 4
Ind5		



	stVal	SPo32GGIO1 Ind 5
Ind6		
	stVal	SPo32GGIO1 Ind 6
Ind7		
	stVal	SPo32GGIO1 Ind 7
Ind8		
	stVal	SPo32GGIO1 Ind 8
Ind9		
	stVal	SPo32GGIO1 Ind 9

#### 2.4.59 V16GGIO1

Beh		
	stVal	Out of Service
Health		
	stVal	Protection Healthy
Ind1		
	stVal	Virtual 1
Ind10		
	stVal	Virtual 10
Ind11		
	stVal	Virtual 11
Ind12		
	stVal	Virtual 12
Ind13		
	stVal	Virtual 13
Ind14		
	stVal	Virtual 14
Ind15		
	stVal	Virtual 15
Ind16		
	stVal	Virtual 16
Ind2		
	stVal	Virtual 2
Ind3		
	stVal	Virtual 3
Ind4		

	stVal	Virtual 4
Ind5		
	stVal	Virtual 5
Ind6		
	stVal	Virtual 6
Ind7		
	stVal	Virtual 7
Ind8		
	stVal	Virtual 8
Ind9		
	stVal	Virtual 9