Group: Protections

Subgroup: Overload Protection

Overload Protection

Setpoint group	Protections	Related FW	1.8.0
Range [units]	Enabled/Disabled/By LBI [-]		
Default value	Enabled	Alternative config	NO
Step	[-]		
Comm object	15664	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			

This setpoint adjusts the behavior of generator Overload protection.

Enabled:	Protection is enabled. Behavior of protection is adjusted via setpoints **Overload BOC (page 227)**, **Overload Wrn (page 227)** and **Overload Delay (page 227)**.
Disabled:	Protection is disabled.
By LBI:	Protection is enabled or disabled by the state of LBI PROTECTION ENABLE (PAGE 532).

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Subgroup: Current Protection

Short Circuit Protection

Setpoint group	Protections	Related FW	1.8.0
Range [units]	Enabled / Disabled / By LBI [-]		
Default value	Enabled	Alternative config	NO
Step	[-]		
Comm object	15665	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			

This setpoint adjusts the behavior of generator Short Circuit protection.

Enabled:	Protection is enabled. Behavior of protection is adjusted via setpoints **Short Circuit BOC (page 228)** and **Short Circuit BOC Delay (page 228)**.
Disabled:	Protection is disabled.
By LBI:	Protection is enabled or disabled by the state of LBI PROTECTION ENABLE (PAGE 532).

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IDMT Overcurrent Protection

Setpoint group	Protections	Related FW	1.8.0
Range [units]	Enabled / Disabled / By LBI[-]		
Default value	Enabled	Alternative config	NO
Step	[-]		
Comm object	15666	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			

This setpoint adjusts the behavior of generator IDMT Overcurrent protection.

Enabled:	Protection is enabled. Behavior of protection is adjusted via setpoint **IDMT Overcurrent Delay (page 229)**.
Disabled:	Protection is disabled.
By LBI:	Protection is enabled or disabled by the state of LBI PROTECTION ENABLE (PAGE 532).

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Current Unbalance Protection

Setpoint group	Protections	Related FW	1.8.0
Range [units]	Enabled / Disabled / By LBI[-]		
Default value	Enabled	Alternative config	NO
Step	[-]		
Comm object	15667	Related applications	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			

This setpoint adjusts the behavior of generator Current Unbalance protection.

Enabled:	Protection is enabled. Behavior of protection is adjusted via setpoints **Current Unbalance BOC (page 230)** and **Current Unbalance BOC Delay (page 230)**.
Disabled:	Protection is disabled.
By LBI:	Protection is enabled or disabled by the state of LBI PROTECTION ENABLE (PAGE 532).

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Subgroup: Voltage Protection

Generator <> Voltage Protection

Setpoint group	Protections	**Related FW**	1.8.0
Range [units]	Enabled / Disabled / By LBI [-]		
Default value	Enabled	**Alternative config**	NO
Step	[-]		
Comm object	15668	**Related applications**	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			

This setpoint adjusts the behavior of generator Generator <> Voltage protection. GCB closing is blocked, if the protection is disabled!

Enabled:	Protection is enabled. Behavior of protection is adjusted via setpoints **Generator Overvoltage Sd (page 230)**, **Generator Overvoltage Wrn (page 231)**, **Generator Undervoltage BOC (page 231)**, **Generator Undervoltage Wrn (page 232)** and **Generator <> Voltage Delay (page 232)**.
Disabled:	Protection is disabled.
By LBI:	Protection is enabled or disabled by the state of LBI PROTECTION ENABLE (PAGE 532).

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Voltage Unbalance Protection

Setpoint group	Protections	**Related FW**	1.8.0
Range [units]	Enabled / Disabled / By LBI [-]		
Default value	Enabled	**Alternative config**	NO
Step	[-]		
Comm object	15669	**Related applications**	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			

This setpoint adjusts the behavior of generator Voltage Unbalance protection.

Enabled:	Protection is enabled. Behavior of protection is adjusted via setpoints **Voltage Unbalance BOC (page 232)** and **Voltage Unbalance BOC Delay (page 233)**.
Disabled:	Protection is disabled.
By LBI:	Protection is enabled or disabled by the state of LBI PROTECTION ENABLE (PAGE 532).

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Subgroup: Frequency Protection

Generator Frequency Protection

Setpoint group	Protections	**Related FW**	1.8.0
Range [units]	Enabled / Disabled / By LBI [-]		
Default value	Enabled	**Alternative config**	NO
Step	[-]		
Comm object	15670	**Related applications**	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			

This setpoint adjusts the behavior of generator Generator Frequency protection. GCB closing is blocked, if the protection is disabled!.

Enabled:	Protection is enabled. Behavior of protection is adjusted via setpoints **Generator Overfrequency BOC (page 233)**, **Generator Overfrequency Wrn (page 233)**, **Generator Underfrequency BOC (page 234)**, **Generator Underfrequency Wrn (page 234)**, and **Generator <> Frequency Delay (page 234)**.
Disabled:	Protection is disabled.
By LBI:	Protection is enabled or disabled by the state of LBI PROTECTION ENABLE (PAGE 532).

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Subgroup: Speed Protection

Underspeed Protection

Setpoint group	Protections	**Related FW**	1.8.0
Range [units]	Enabled / Disabled / By LBI [-]		
Default value	Enabled	**Alternative config**	NO
Step	[-]		
Comm object	15671	**Related applications**	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			

This setpoint adjusts the behavior of generator Underspeed protection.

Enabled:	Protection is enabled. Behavior of protection is adjusted via setpoint **Underspeed Sd (page 207)**.
Disabled:	Protection is disabled.
By LBI:	Protection is enabled or disabled by the state of LBI PROTECTION ENABLE (PAGE 532).

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Overspeed Protection

Setpoint group	Protections	**Related FW**	1.8.0
Range [units]	Enabled / Disabled / By LBI [-]		
Default value	Enabled	**Alternative config**	NO
Step	[-]		
Comm object	15672	**Related applications**	AMF, MRS
Config level	Advanced		
Setpoint visibility	Always		
Description			
This setpoint adjusts the behavior of generator Overspeed protection.			

Enabled:	Protection is enabled. Behavior of protection is adjusted via setpoint **Overspeed Sd (page 207)**.
Disabled:	Protection is disabled.
By LBI:	Protection is enabled or disabled by the state of LBI PROTECTION ENABLE (PAGE 532).

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Group: Dual Operation

Subgroup: Dual Operation

Running Hours Max Difference

Setpoint group	Dual Operation	**Related FW**	1.8.0
Range [units]	0,1 .. 1000,0 [h]		
Default value	10 h	**Alternative config**	NO
Step	0,1 h		
Comm object	16039	**Related applications**	AMF, MRS
Config level	Advanced		
Setpoint visibility	Only if relevant module is installed + conditioned by the setpoint **COM1 Mode (page 343)** and **COM2 Mode (page 344)**		
Description			
This setpoint adjusts the maximal allowed difference of dual operation running hours between Master and Slave. When difference is higher, swap of load between controllers should be done.			

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