I want to use one SPM-D2 for paralleling two different circuit breakers

Clemens - 2022-07-29 - SPM-D2

If you want to use only one Synchronizer SPM-D2 to parallel to independent GCB's you can use

the SPM-D2 PSY version providing 2 parameter sets (A and B). SPM-D is paralleling e.g. first breaker A (with Parameter Set A) , after breaker A is paralleled , the generator voltage is switched from Generator A to Generator B. Parameter set B is activated by terminal DI 6 and now you can parallel breaker B having as well different breaker closing time then breaker A.

SPM-D PSY versions

8440-2170 SPM-D2-10B/PSY5-FU-D with 24VDC power supply

8440-2173 SPM-D2-10B/PSY5-FU-D-W with wide range power supply 90..250 VAC / 120...375 VDC

Option	Parameter 100/400V; 1/5 A	Adjustment range	Standard setting	Customer settings	
CONFIGURE CONTROLLER					
	Automatic idle Running	ON/OFF	OFF	☐ on ☐ off	☐ on ☐ off
	Freq. controller	ON/OFF	ON	☐ on ☐ off	☐ on ☐ off
	Freq. controller Isol. oper	ON/OFF	OFF	☐ on ☐ off	☐ on ☐ off
	Freq. Controller Ramp	0.1..99.9 Hz/s	5.0 Hz/s		
A	Freq. contr. (A) Dead band	0.02..1.00 Hz	0.10 Hz		
..	Freq. contr. (A) Time pulse>	10..250 ms	80 ms		
A	Freq. contr. (A) Gain Kp	0.1..99.9	5.0		
B	Freq. contr. (B) Dead band	0.02..1.00 Hz	0.10 Hz		
..	Freq. contr. (B) Time pulse>	10..250 ms	80 ms		
B	Freq. contr. (B) Gain Kp	0.1..99.9	30.0		
	Volt. controller	ON/OFF	ON	☐ on ☐ off	☐ on ☐ off
	Volt. controllerIsol. oper.	ON/OFF	OFF	☐ on ☐ off	☐ on ☐ off
	Volt. controller Ramp	1..99 V/s	25 V/s		
A	Volt. contr. (A) Dead band	0.1..25.0 %	0.5 %		
..	Volt. contr. (A) Time pulse>	20..250 ms	80 ms		
A	Volt. contr. (A) Gain Kp	0.1..99.9	5.0		
B	Volt. contr. (B) Dead band	0.1..25.0 %	0.5 %		
..	Volt. contr. (B) Time pulse>	20..250 ms	80 ms		
B	Volt. contr. (B) Gain Kp	0.1..99.9	30.0		

CONFIGURE SYNCHRONIZATION					
	Synchronizing functions	ON/OFF	ON	☐ on ☐ off	☐ on ☐ off
	Synchrocheck- mode	ON/OFF	OFF		
	Synchronization df offs.=	0.02..0.25 Hz	0.10 Hz		
	Synchronization df max	0.02..0.49 Hz	0.18 Hz		
	Synchronization df min	0.00..-0.49 Hz	-0.10 Hz		
	Synchronization dV max	0.1..15.0 %	6 %		
	Synchronization Brk.hold T>	0.04..0.50 s	0.20 s		
	Phase matching	ON/OFF	OFF	☐ on ☐ off	☐ on ☐ off
	Slip synchroniz. Max.phase<	0..60°	7 °		
A	Slip synch.(A) TClose CB	40..300 ms	80 ms		
B	Slip synch.(B) TClose CB	40..300 ms	80 ms		
	Phase matching Max phase <	0..60 °	7 °		
	Phase matching Dwell time	0.2..10.0 s	10.0 s		
	Phase matching Gain	1..36	2		
	Phase matching df start	0.02..0.25 Hz	0.20 Hz		

Parameterset (B) can be activated by switching dicrete input 6

