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

Justin Schneider - 2026-07-27 - [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

Manual 37616C

SPM-D2-10B/PSY5 - Synchronizing Unit

Option	Parameter 100/400V; 1/5 A	Adjustment range	Standard setting	Customer settings
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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. controller Isol. 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) TCclose CB	40..300 ms	80 ms			
B	Slip synch. (B) TCclose 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 discrete input 6

