

CBM electronic circuit breakers

Multichannel programmable overcurrent protection



Multichannel electronic overcurrent protection for high-density DC applications

The CBM is a series of programmable, multichannel electronic circuit breakers that allows for quick and easy nominal current adjustment. The CBM series offers four- and eight-channel versions — that's up to eight circuit breakers in 41 mm of space, only 5.12 mm per channel. With the CBM, you can adjust the nominal current value for each channel to between 0.5 and 10 A. The selected settings are locked electronically, preventing the risk of incorrect settings.

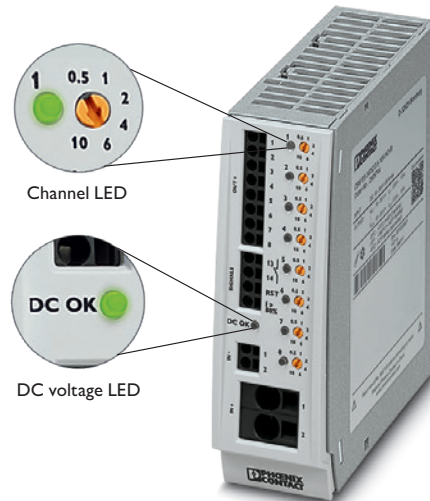
The circuit breakers feature local and remote status indication that allows the user to monitor multiple events for both the individual channels and the input voltage. The integrated early warning system ensures fewer failures. When the set nominal current of a channel reaches 80%, a warning is output via the associated LED. Furthermore, the separate signal output can be used for remote signaling. Active current limitation enables optimum use of the upstream power supply. This enables the use of smaller switched-mode power supply units and prevents unwanted voltage dips. For high-density, reliable circuit protection, the CBM series is a powerful part of any system.

CBM	Channel	Part number	Part description
	4 channel	2905743	CBM E8 24DC/0.5-10A NO-R
	8 channel	2905744	CBM E8 24DC/0.5-10A NO-R

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Features:

- UL 508 Listed (UL 2367 Recognized)
- Approved for Class I, Division 2 locations
- Shock and vibration resistant
- Wide operating temperature (-25° to +70°C)
- Individual LED channel status indication
- Over- and under-voltage monitoring
- Overload and short circuit detection
- Remote reset of channels
- Active current limitation



LED indication			Status
Channel	●	Off	Device is off
DC OK	●	Off	
Channel	●	Green	Everything is functioning normally
DC OK	●	Green	
Channel	⬢	Flashing green	The current value was altered on this channel
DC OK	●	Off	Stop flashing by returning to original value
Channel	●	Yellow	Operating at 80% capacity
DC OK	●	Green	
Channel	⬢	Flashing Red/Yellow	Operating at 110-130%. Set nominal current 110-130%, the channel will switch off after 30 seconds >130%, the channel will switch off after 0.02 seconds
DC OK	●	Green	
Channel	⬢	Flashing red	The channel has cooled and can now be reset by hand or remotely
DC OK	●	Green	
Channel	●	Red	Channel is tripped
DC OK	●	Green	
Channel	●	Red	Undervoltage: operating under 18 V DC
DC OK	●	Yellow	
Channel	●	Green	An undervoltage had previously occurred but has now passed
DC OK	⬢	Flashing yellow	
Channel	●	Red	Overvoltage: operating over 30 V DC
DC OK	●	Red	
Channel	●	Green	An overvoltage had previously occurred but has now passed
DC OK	⬢	Flashing red	

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