CLMD12

12 Channel DC Load Controller Module

Quick Start Guide

P/N: M003138
Rev.1.3 (7/2021)

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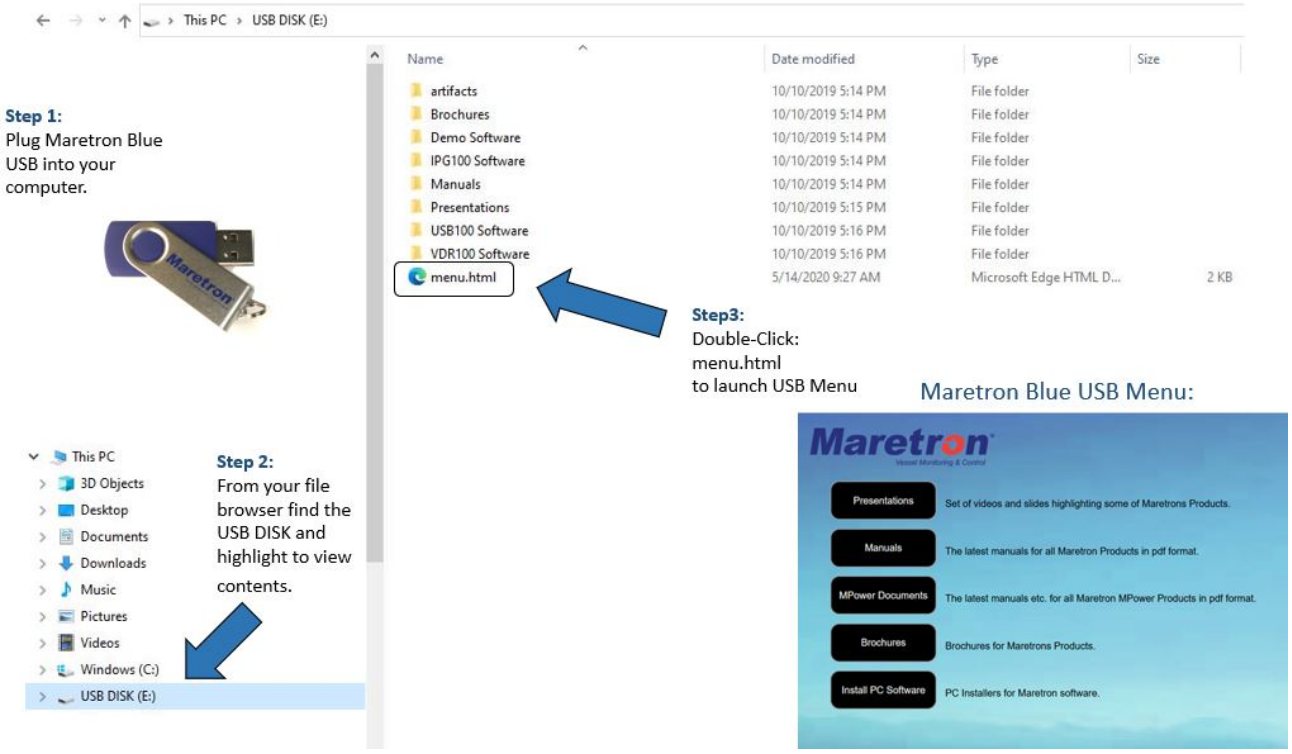
Thank you for purchasing MPower CLMD12

The CLMD12 features 75A total current switching capacity using 12 PWM capable Electronic Circuit Breakers (ECBs) housed inside an IP67, Ignition Protected casing. Configure the CLMD12 using Maretron N2KAnalyzer® installed on a PC and an IPG100 or USB100 connected to the NMEA 2000® Network.

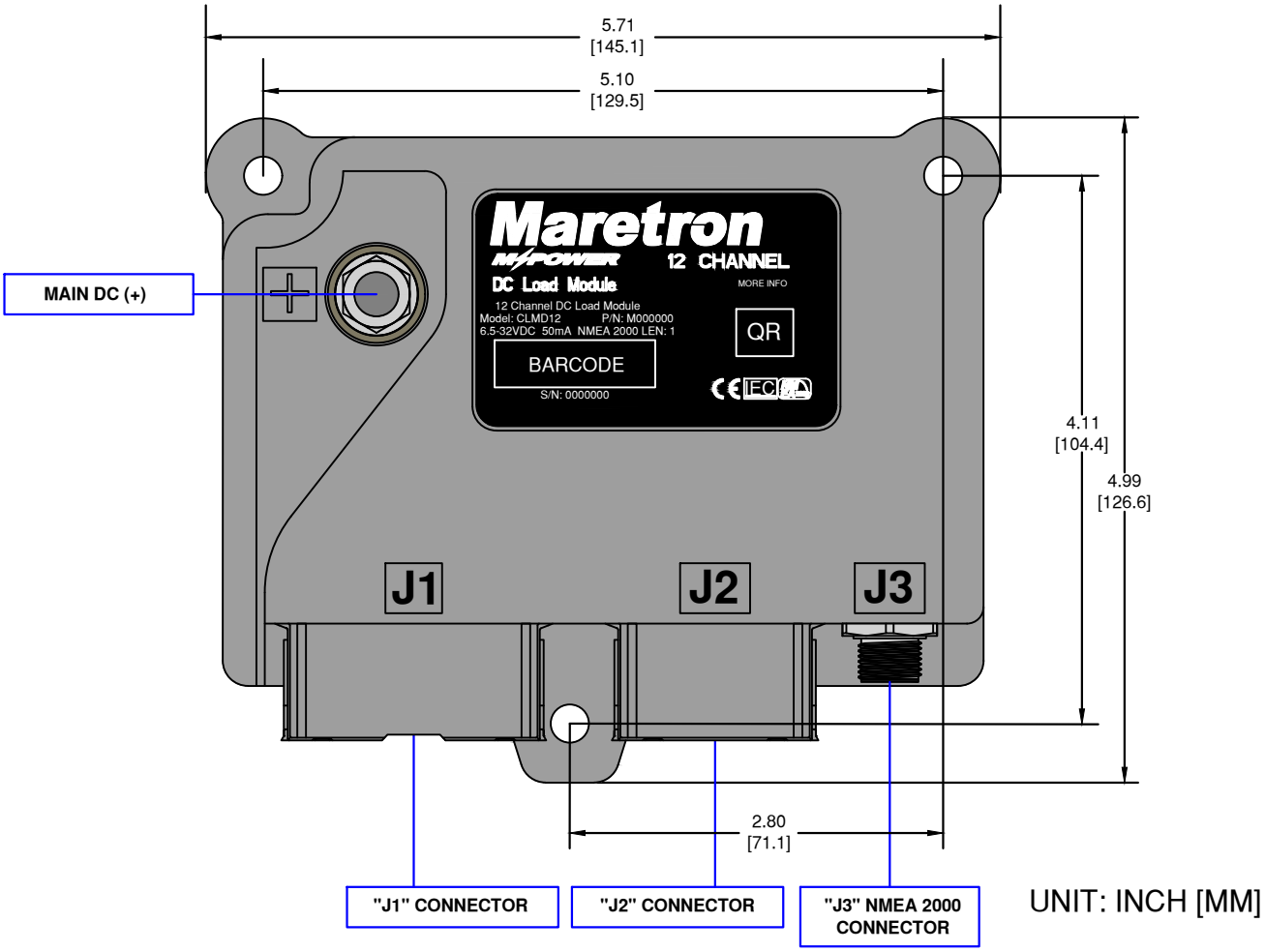
CLMD12 Features at a Glance:

- 1- NMEA 2000® Interface
- 2-12A ECBs
- 6-10A ECBs
- 4- 5A ECBs
- 7- Analog (VDC) / Digital Inputs can sense DC (-), DC (+) or Float states
- 4- Potential Groups of 2 ECB load outputs rated at 10A can be paralleled to switch a maximum current of 18A
- 3- Potential Groups of 2 ECB load outputs rated at 5A can be paralleled to switch a maximum current of 9A
- 1- Pair of 2 ECB load outputs rated at 12A can be paralleled to switch a maximum current of 22A
- The CLMD12 unit is controlled, and can control devices via NMEA 2000® network technology.

To learn more about the MPower CLMD12's features please refer to the User's Manual located on the Blue USB Disc. See launch instruction below to access USB Disc Menu.



CLMD12 Hardware Description:

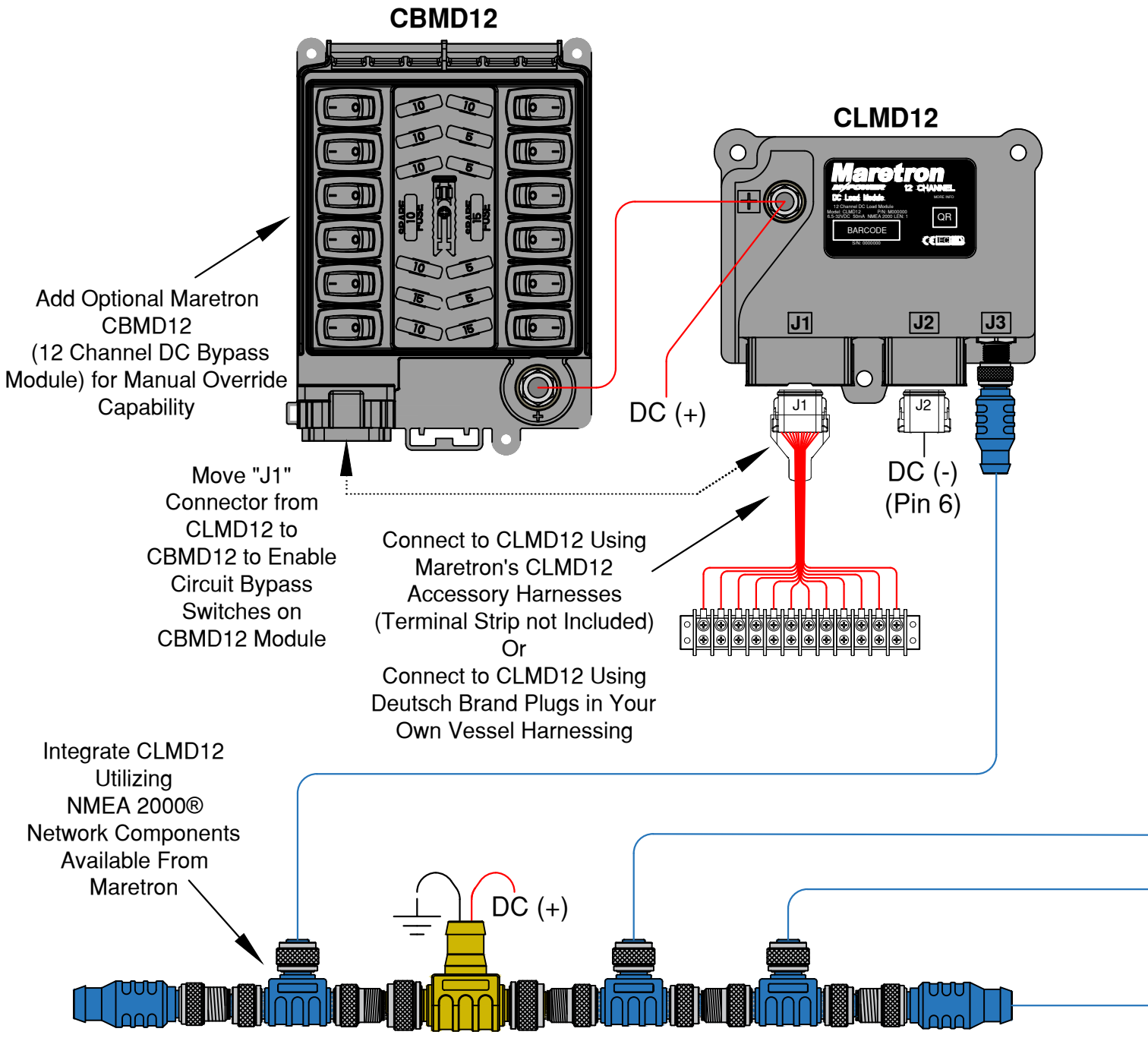


CLMD12 Application:

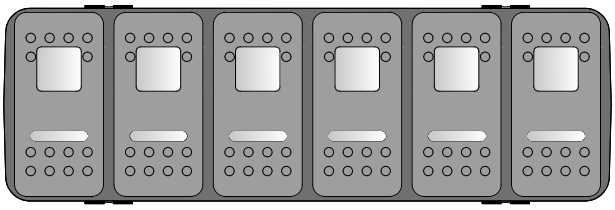
Apply the CLMD12 unit with any Maretron device running N2K view®, Maretron's CKM12 (12 Button Keypad) or VMM6 (Contura® Digital Switch Module, 6 Rocker) and third party MFDs supporting NMEA2000® standard switching PGNs. The CLMD12 comes pre-configured with an *Out of Box Configuration* that allows all 12 ECB outputs to be switched by network devices supporting NMEA2000® standard switching PGNs. The CLMD12's *Out of Box Configuration* also allows for Maretron's CKM12 (12 Button Keypad) and VMM6 (Contura® Digital Switch Module, 6 Rocker) to control CLMD12 without the need for any user configuration adjustments. Please see the *Out of Box Configuration* details in this Quick Start Guide for information on the CLMD12's default configuration and how this configuration will behave when a CLMD12 is combined on the same network as Maretron CKM12 or Maretron VMM6 also containing their own default Out of Box Configuration.

Note: Depending on desired switch control, default configuration may not work for your application and custom configuration will be needed using Maretron N2KAnalyzer®.

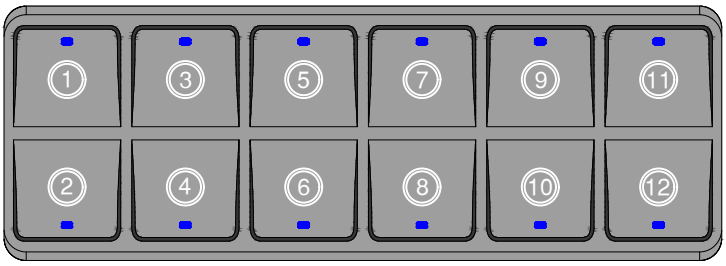
Installation Principle:



MARETRON VMM6

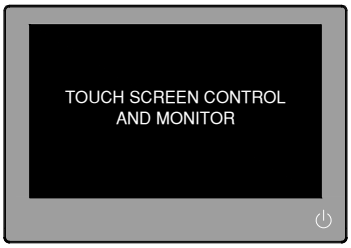


MARETRON CKM12



MARETRON TSM810C

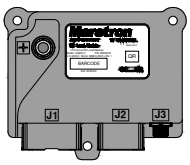
THIRD PARTY MFD

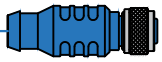


Choose From a Variety of Control Devices for the CLMD12

Easily Expand Your MPowerSystem With Another CLMD12 or Other Maretron MPower Devices

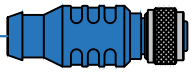
CLMD12

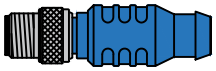




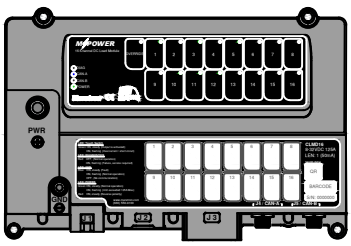
Other NMEA 2000® Devices:

- Stereo
- VHF
- Depth

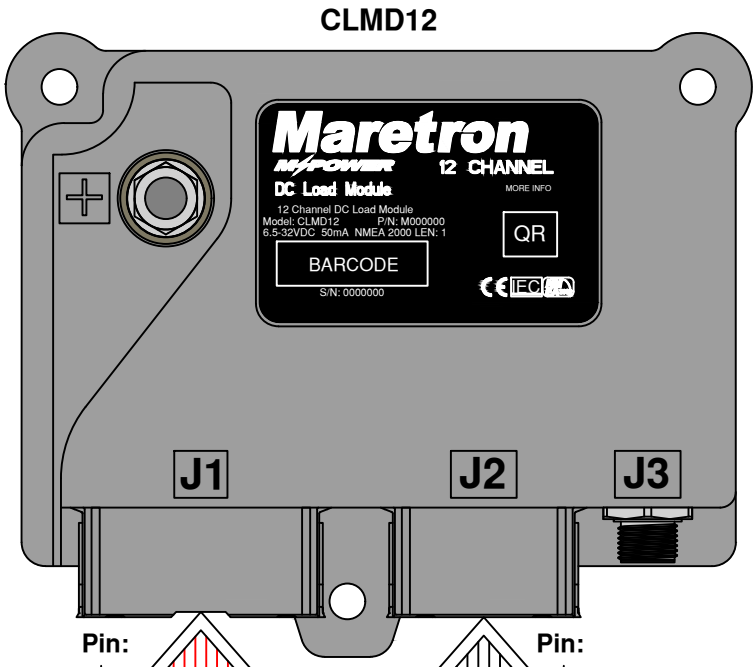




CLMD16



CLMD12 Out of Box Configuration Module Details:



Pin: **Pin:**

Output Mode: **5A Outputs:** **Inputs:**

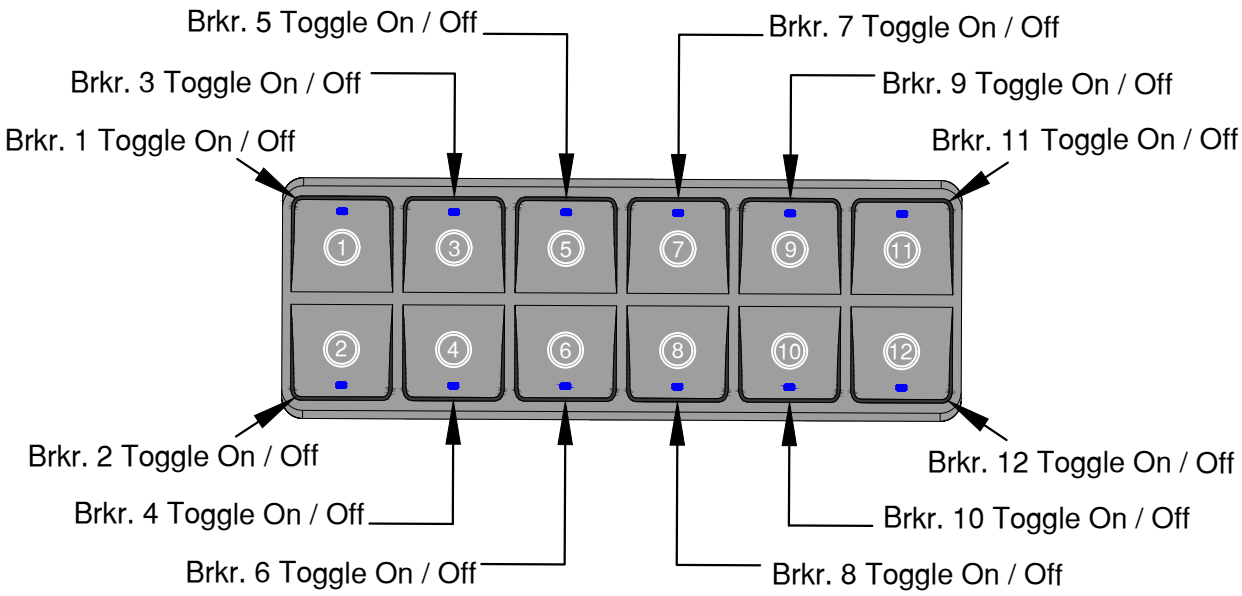
Output Mode:	5A Outputs:	Pin:	Pin:	Inputs:
Toggle On / Off	Breaker 3 / (5A)	J1-8	J2-2	Breaker 1 Toggle DC(-) or DC(+)
Toggle On / Off	Breaker 6 / (5A)	J1-10	J2-7	Breaker 2 Toggle DC(-) or DC(+)
Toggle On / Off	Breaker 9 / (5A)	J1-11	J2-1	Breaker 3 Toggle DC(-) or DC(+)
Toggle On / Off	Breaker 12 / (5A)	J1-9	J2-8	Breaker 4 Toggle DC(-) or DC(+)
			J2-4	Breaker 5 Toggle DC(-) or DC(+)
			J2-5	Breaker 6 Toggle DC(-) or DC(+)
			J2-3	Breaker 7 Toggle DC(-) or DC(+)
			J2-6	**MAIN GROUND**
	10A Outputs:			
Toggle On / Off	Breaker 1 / (5A)	J1-6		
Toggle On / Off	Breaker 2 / (5A)	J1-4		
Toggle On / Off	Breaker 5 / (5A)	J1-1		
Toggle On / Off	Breaker 8 / (5A)	J1-3		
Toggle On / Off	Breaker 10 / (5A)	J1-5		
Toggle On / Off	Breaker 11 / (5A)	J1-7		
			12A Outputs:	
			J1-2	Breaker 4 / (5A)
			J1-12	Breaker 7 / (5A)

Output Mode:

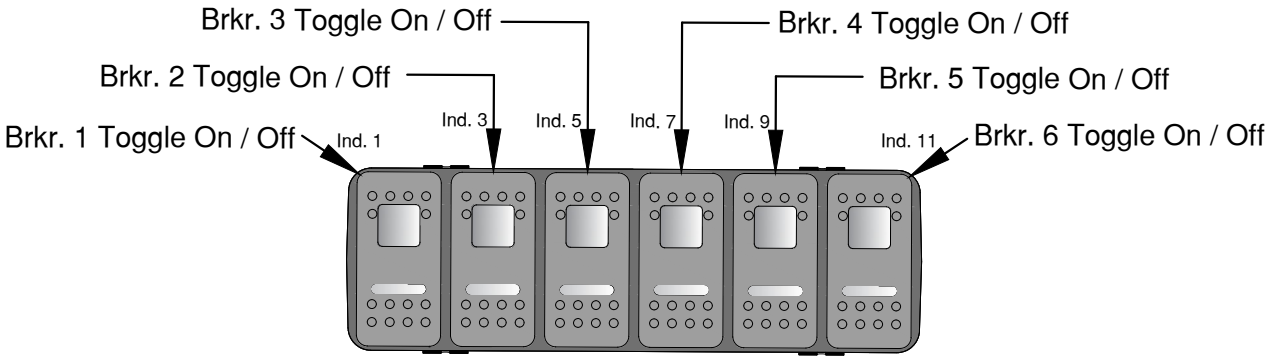
Brkr. 4: Toggle On / Off
Brkr. 7: Toggle On / Off

CLMD12 Out of Box Configuration Switch Bank Details:

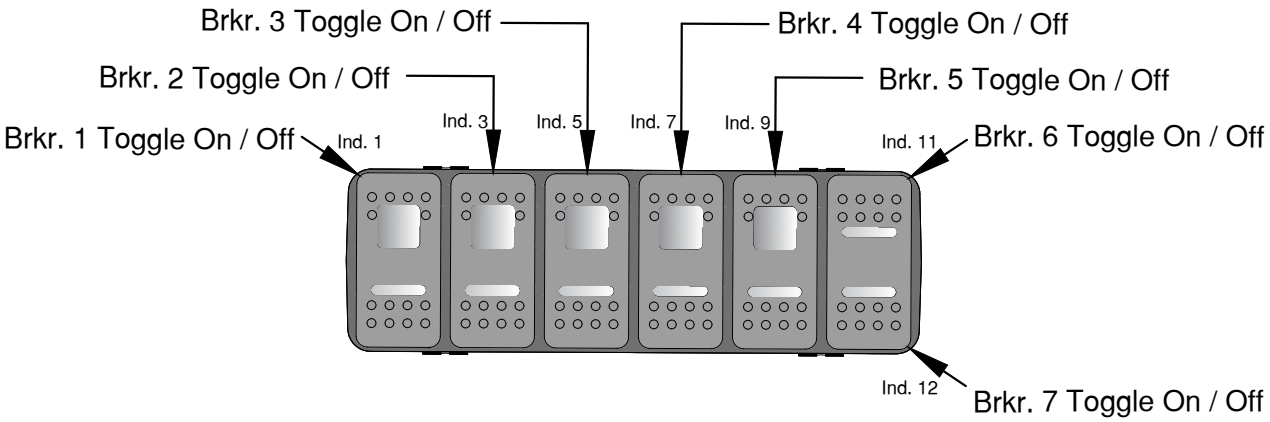
MARETRON CKM12



MARETRON VMM6 (6 Switch)



MARETRON VMM6 (7 Switch)



CLMD12

12 Channel DC Load Controller Module

For Additional Information About Your CLMD12

Scan this QR Code:

Technical Support:

If you require technical support for Maretron products,
you can reach us in any of the following ways:

Telephone:
1-866-550-9100
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E-mail: marine.support@carlingtech.com
World Wide Web: https://www.maretron.com

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Jupiter, FL 33477 USA