Series G Handle Mechanism

Product Focus



Handle Mechanism Overview

Handle mechanisms are used to operate molded case circuit breakers, molded case switches and motor circuit protectors. They are available in three basic configurations Flange Mounted, Throughthe-Door and Direct (Close-Coupled) — providing safe, dependable operation and ease of installation.

Handle mechanisms are used on enclosed circuit breakers, control panels and motor control centers in many different applications. Éaton has a handle mechanism for virtually any need.

Flange Mounted **Handle Mechanisms**



The Flex Shaft

Flange Mounted handle mechanisms mount on the flange of an enclosure door. The Flex Shaft is an extra heavy-duty mechanism that includes a flexible shaft in various lengths, 3 feet (0.9 m) through 10 feet (3 m) for use with various size enclosures.

The Flex Shaft handle will accept up to three padlock shackles, each with a maximum diameter of 3/8-inch (9.5 mm). Can be used with NEMA® 12 (IP54) 12 fabricated enclosures.

An optional handle is available for the Flex Shaft that is suitable for use with NEMA 4 and 4X (IP66) environments.

Flex Shaft comes preset from the factory, requiring only minor field adjustments on installation, which takes about 10 minutes — a significant time savings compared to installation of other types of flange handle mechanisms. The Flex Shaft mechanism also takes up less interior enclosure space than competitive designs and the handle fits standard flange cutouts. The Flex Shaft handle can be remotely mounted from the breaker, where an operator can use it by "funneling" the cable through conduit. Flex Shaft is UL® listed under File E64893 and meets CSA® requirements.

Note: When selecting the length of shaft, ensure a minimum bending radius of 4 inches (101.6 mm) is maintained to operate properly.

The standard method of shipment includes the mechanism preset at the factory; however, minor field adjustments may be required.

Direct (Close-Coupled) Handle Mechanisms





Universal Direct (E - L Frames)

Direct (Close-Coupled) Handle Mechanisms mount directly to the circuit breaker. They are used in shallow enclosures where the standard variable depth Throughthe-Door type mechanism is not practical or cannot be used. They are typically for applications where high volume, standardized enclosures are being fabricated.

Through-the-Door **Handle Mechanisms** Universal Rotary/Vari-depth



The Universal Rotary/Vari-depth is suitable for use with NEMA 12 (IP54) enclosure types. An optional NEMA 4/4X (IP66) handle mechanism is also available. All rotary handle mechanisms include a handle "lock off," to prevent turning the breaker ON while in the OFF position. All rotary handles indicate N/OFF/Tripped/Reset positions, however, Universal Rotary has the added feature of international markings for ON (I) and OFF (O). The Universal Rotary is made of molded material.

The Universal Rotary mechanisms for E, J and L Frame MCCBs can be operated by hand with the door open or "locked off" to prevent operation with the door open.



JG & LG 4X (IP66) Handle Mechanism



EG 4X (IP66) Handle Mechanism

Rotary/Vari-depth

FRAME	COLOR	SIZE INCHES (MM)	ENCLOSURE RATING		CATALOG NUMBER
			NEMA	IP	
E	Black Black Black	6.00 (152.4) 12.00 (304.8) 24.00 (609.6)	1/12 1/12 1/12	20/54 20/54 20/54	EHMVD06B EHMVD12B EHMVD24B
	Red Red Red	6.00 (152.4) 12.00 (304.8) 24.00 (609.6)	1/12 1/12 1/12	20/54 20/54 20/54	EHMVD06R EHMVD12R EHMVD24R
	Black Black Black	6.00 (152.4) 12.00 (304.8) 24.00 (609.6)	3R/4X 3R/4X 3R/4X	55/66 55/66 55/66	EHMVD06BX EHMVD12BX EHMVD24BX
	Red Red Red	6.00 (152.4) 12.00 (304.8) 24.00 (609.6)	3R/4X 3R/4X 3R/4X	55/66 55/66 55/66	EHMVD06RX EHMVD12RX EHMVD24RX
J	Black Black Black	6.00 (152.4) 12.00 (304.8) 24.00 (609.6)	1/12 1/12 1/12	20/54 20/54 20/54	FJMVD06B FJMVD12B FJMVD24B
	Red Red Red	6.00 (152.4) 12.00 (304.8) 24.00 (609.6)	1/12 1/12 1/12	20/54 20/54 20/54	FJMVD06R FJMVD12R FJMVD24R
	Black Black Black	6.00 (152.4) 12.00 (304.8) 24.00 (609.6)	3R/4X 3R/4X 3R/4X	55/66 55/66 55/66	FJMVD06BX FJMVD12BX FJMVD24BX
	Red Red Red	6.00 (152.4) 12.00 (304.8) 24.00 (609.6)	3R/4X 3R/4X 3R/4X	55/66 55/66 55/66	FJMVD06RX FJMVD12RX FJMVD24RX
L	Black Black Black	6.00 (152.4) 12.00 (304.8) 24.00 (609.6)	1/12 1/12 1/12	20/54 20/54 20/54	KLMVD06B KLMVD12B KLMVD24B
	Red Red Red	6.00 (152.4) 12.00 (304.8) 24.00 (609.6)	1/12 1/12 1/12	20/54 20/54 20/54	KLMVD06R KLMVD12R KLMVD24R
	Black Black Black	6.00 (152.4) 12.00 (304.8) 24.00 (609.6)	3R/4X 3R/4X 3R/4X	55/66 55/66 55/66	KLMVD06BX KLMVD12BX KLMVD24BX
	Red Red Red	6.00 (152.4) 12.00 (304.8) 24.00 (609.6)	3R/4X 3R/4X 3R/4X	55/66 55/66 55/66	KLMVD06RX KLMVD12RX KLMVD24RX
N	Black Black Black Black Red	6.00 (152.4) 6.00 (152.4) 12.00 (304.8) 16.00 (406.4) 24.00 (609.6)	1/12 1/12/3R 1/12/3R 1/12/3R 1/12/3R	20/54 20/54/55 20/54/55 20/54/55 20/54/55	HMVD5B WHM5R06 WHM5R12 WHM5R16 WHM5R24
	Black Black Black Red	6.00 (152.4) 12.00 (304.8) 16.00 (406.4) 24.00 (609.6)	4/4X 4/4X 4/4X 4/4X	66 66 66 66	WHM5R06X WHM5R12X WHM5R16X WHM5R24X
R	Black	9.00 (228.6)	1/12	20/54	HMVD6B

Direct Mount

FRAME	DESCRIPTION	ENCLOSURE RATING	CATALOG NUMBER
E	White Handle, with Interlock	N/A	ЕНМССВІ
	White Handle, without Interlock	N/A	EHMCCB
	Red Handle, without Interlock	N/A	EHMCCR
J	White Handle, with Interlock	N/A	JHMCCBI
	White Handle, without Interlock	N/A	JHMCCB
	Red Handle, without Interlock	N/A	JHMCCR
L	White Handle, with Interlock	N/A	LHMCCBI
	White Handle, without Interlock	N/A	LHMCCB
	Red Handle, without Interlock	N/A	LHMCCR

Eaton Electrical Inc. 1000 Cherrington Parkway Moon Township, PA 15108 United States tel: 1-800-525-2000 www.EatonElectrical.com

Flex Shafts

FRAME	FLEXIBLE NEMA SHAFT LENGTH IN FEET (M)	ENCLOSURE RATING		CATALOG NUMBER
		NEMA	IP	
E	2 (.6) 3 (.9) 4 (1.2)	1/12 1/12 1/12	20/54 20/54 20/54	EHMFS02 EHMFS03 EHMFS04
	5 (1.5) 6 (1.8) 7 (2.1)	1/12 1/12 1/12	20/54 20/54 20/54	EHMFS05 EHMFS06 EHMFS07
	8 (2.4) 9 (2.7) 10 (3.0)	1/12 1/12 1/12	20/54 20/54 20/54	EHMFS08 EHMFS09 EHMFS10
	2 (.6) 3 (.9) 4 (1.2)	3R/4X 3R/4X 3R/4X	55/66 55/66 55/66	EHMFS02X EHMFS03X EHMFS04X
	5 (1.5) 6 (1.8) 7 (2.1)	3R/4X 3R/4X 3R/4X	55/66 55/66 55/66	EHMFS05X EHMFS06X EHMFS07X
	8 (2.4) 9 (2.7) 10 (3.0)	3R/4X 3R/4X 3R/4X	55/66 55/66 55/66	EHMFS08X EHMFS09X EHMFS10X
J	3 (.9) 4 (1.2) 5 (1.5)	1/12 1/12 1/12	20/54 20/54 20/54	JHMFS03 JHMFS04 JHMFS05
	6 (1.8) 7 (2.1) 8 (2.4)	1/12 1/12 1/12	20/54 20/54 20/54	JHMFS06 JHMFS07 JHMFS08
	9 (2.7) 10 (3.0)	1/12 1/12	20/54 20/54	JHMFS09 JHMFS10
	3 (.9) 4 (1.2) 5 (1.5) 6 (1.8)	3R/4X 3R/4X 3R/4X 3R/4X	55/66 55/66 55/66 55/66	JHMFS03X JHMFS04X JHMFS05X JHMFS06X
	7 (2.1) 8 (2.4) 9 (2.7) 10 (3.0)	3R/4X 3R/4X 3R/4X 3R/4X	55/66 55/66 55/66 55/66	JHMFS07X JHMFS08X JHMFS09X JHMFS10X
L	4 (1.2) 7 (2.1) 10 (3.0)	1/12 1/12 1/12	20/54 20/54 20/54	LHMFS04 LHMFS07 LHMFS10
	4 (1.2) 7 (2.1) 10 (3.0)	3R/4X 3R/4X 3R/4X	IP55/66 IP55/66 IP55/66	LHMFS04X LHMFS07X LHMFS10X
N	4 (1.2) 5 (1.5) 6 (1.8) 10 (3.0)	1/12/3R 1/12/3R 1/12/3R 1/12/3R	20/54/55 20/54/55 20/54/55 20/54/55	F5S04CI F5S05CI F5S06CI F5S010CI
	4 (1.2) 5 (1.5) 6 (1.8) 10 (3.0)	4/4X 4/4X 4/4X 4/4X	66 66 66 66	F5S04CXI F5S05CXI F5S06CXI F5S010CXI
R	4 (1.2) 5 (1.5) 6 (1.8)	1/12 1/12 1/12	20/54 20/54 20/54	F6S04 F6S05 F6S06
	4 (1.2) 5 (1.5) 6 (1.8)	4/4X 4/4X 4/4X	66 66 66	F6S04X F6S05X F6S06X

CSA is a registered trademark of the Canadian Standards Association. NEMA is the registered trademark and service mark of the National Electrical Manufacturers
Association. UL is a federally registered
trademark of Underwriters Laboratories Inc.