•N Gutler-Hammer

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. Eaton 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-de	pth				Flex Sh	afts			
FRAME	COLOR	SIZE INCHES (MM)	ENCLOSURE RATING		CATALOG NUMBER	FRAME	FLEXIBLE NEMA SHAFT LENGTH IN FEET (M)	ENCLOSURE RATING		CATALOG NUMBER
			NEMA	IP				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	E	2 (.6) 3 (.9) 4 (1.2)	1/12 1/12 1/12	20/54 20/54 20/54	EHMFS02 EHMFS03 EHMFS04
	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		5 (1.5) 6 (1.8) 7 (2.1)	1/12 1/12 1/12	20/54 20/54 20/54	EHMFS05 EHMFS06 EHMFS07
	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		8 (2.4) 9 (2.7) 10 (3.0)	1/12 1/12 1/12	20/54 20/54 20/54	EHMFS08 EHMFS09 EHMFS10
	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		2 (.6) 3 (.9) 4 (1.2)	3R/4X 3R/4X 3R/4X	55/66 55/66 55/66	EHMFS02X EHMFS03X EHMFS04X
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		5 (1.5) 6 (1.8) 7 (2.1)	3R/4X 3R/4X 3R/4X	55/66 55/66 55/66	EHMFS05X EHMFS06X EHMFS07X
	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		8 (2.4) 9 (2.7) 10 (3.0)	3R/4X 3R/4X 3R/4X	55/66 55/66 55/66	EHMFS08X EHMFS09X EHMFS10X
	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	J	3 (.9) 4 (1.2) 5 (1.5)	1/12 1/12 1/12	20/54 20/54 20/54	JHMFS03 JHMFS04 JHMFS05
	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		6 (1.8) 7 (2.1) 8 (2.4) 9 (2.7) 10 (3.0)	1/12 1/12 1/12	20/54 20/54 20/54 20/54	JHMFS06 JHMFS07 JHMFS08
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			1/12 1/12 1/12	20/54 20/54 20/54	JHMFS09 JHMFS10
	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		3 (.9) 4 (1.2) 5 (1.5)	3R/4X 3R/4X 3R/4X	55/66 55/66 55/66	JHMFS03X JHMFS04X JHMFS05X
	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		6 (1.8) 7 (2.1) 8 (2.4)	3R/4X 3R/4X 3R/4X	55/66 55/66 55/66	JHMFS06X JHMFS07X JHMFS08X
	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	1	9 (2.7) 10 (3.0) 4 (1.2)	3R/4X 3R/4X	55/66 55/66 20/54	JHMFS09X JHMFS10X
N	Black Black Black	6.00 (152.4) 6.00 (152.4) 12.00 (304.8)	1/12 1/12/3R 1/12/3R	20/54 20/54/55 20/54/55	HMVD5B WHM5R06 WHM5R12	-	7 (2.1) 10 (3.0)	1/12 1/12 1/12	20/54 20/54 20/54	LHMFS07 LHMFS10
	Black Red	16.00 (406.4) 24.00 (609.6)	1/12/3R 1/12/3R	20/54/55 20/54/55	WHM5R16 WHM5R24		4 (1.2) 7 (2.1) 10 (3.0)	3R/4X 3R/4X 3R/4X	IP55/66 IP55/66 IP55/66	LHMFS04X LHMFS07X LHMFS10X
	Black Black Red	12.00 (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	WHM5R00X WHM5R12X WHM5R16X WHM5R24X	Ν	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
К	Black	9.00 (228.6)	1/12	20/54	HMVD6B		4 (1.2)	4/4X	66	F5S04CXI
Direct Mount						5 (1.5) 6 (1.8) 10 (3.0)	4/4X 4/4X 4/4X	66 66 66	F5S05CXI F5S06CXI F5S010CXI	
FRAME	DESCRIP	PTION	EN	CLOSURE TING	CATALOG NUMBER	R	4 (1.2) 5 (1.5)	1/12 1/12	20/54 20/54	F6S04 F6S05

6 (1.8)

4 (1.2) 5 (1.5) 6 (1.8)

1/12

4/4X 4/4X 4/4X

FRAME	DESCRIPTION	RATING	NUMBER
E	White Handle, with Interlock	N/A	EHMCCBI
	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

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20/54

66 66 66

F6S06 F6S04X F6S05X F6S06X

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