## Molded Case Circuit Breakers

#### Series C

# 2.3

#### **Terminal End Covers**

The terminal end covers are designed for use in motor control center applications where, because of confined spaces, line side conductors are normally custom fitted. The molded end covers are made of high dielectric glasspolyester and slide over the line ends of the circuit breaker. Close fitting conductor openings are molded into the end covers. The end cover and circuit breaker case fit together to form terminal compartments that isolate discharged ionizing gases during circuit breaker tripping. Terminal end covers are available with two conductor opening diameters, 0.25-inch (6.4 mm) and 0.41inch (10.4 mm), and are listed per UL File E7819. (Field installation only.)

#### Interphase Barriers

The interphase barriers provide additional electrical clearance between circuit breaker poles for special termination applications. The barriers are high dielectric insulating plates that are installed in the molded slots between the terminals. (Field installation only.) Two per package.

#### **Base Mounting Plate**

Suitable for mounting six single-pole circuit breakers.

#### DIN Rail Adapter

For use with standard 35 mm DIN rail such as, 35 x 7.5 or 35 x 15 mm per DIN EN50022.

Adapter mounting screws included are for use with twoand three-pole circuit breakers. Adapters for singlepole circuit breakers clip into the base molding.

#### Key Operated Attachment

#### Lock Dog (Non-Padlockable)

#### Non-Padlockable Handle Block

The non-padlockable handle block secures the circuit breaker handle in either the ON or OFF position. (Trip-free operation allows the circuit breaker to trip when the handle block holds the circuit breaker handle in the ON position.) The device is positioned over the circuit breaker handle and secured by a setscrew to deter accidental operation of the circuit breaker handle. Listed per UL File E7819. (Field installation only.)

### Padlockable Handle

#### Padlockable Handle Lock

The device is positioned in the cover opening to prevent handle movement. Will accommodate one 5/16-inch (8 mm) padlock.

#### Snap-on Padlockable Handle Lock Hasp

The snap-on padlockable handle lock allows the handle to be locked in the OFF or ON position. (Trip-free operation allows the circuit breaker to trip when the handle lock holds the circuit breaker handle in the ON position.) This device was designed for use on the single-pole circuit breaker, but may be used on one-, two-, threeand four-pole styles. The handle lock snaps onto the escutcheon area of the handle with an optional retaining screw for added secureness. The handle lock will accommodate one padlock with a 1/4-inch (6.4 mm) shackle. Listed per UL File E7819. (Field installation only.)

#### Padlockable Handle Lock Hasp

The padlockable handle lock hasp allows the handle to be locked in the ON or OFF position. (Trip-free operation allows the circuit breaker to trip when the handle lock holds the circuit breaker handle in the ON position.) The hasp mounts on the circuit breaker cover within the trimline. The cover is predrilled on both sides of the operating handle so that the hasp can be mounted on either side of the handle. The hasp will accommodate up to three padlocks with 1/4-inch (6.4 mm) shackles, one per circuit breaker. Listed per UL File E7819. (Field installation only.)

#### Cylinder Lock

The cylinder lock internally blocks the trip bar in the tripped position to prevent the circuit breaker from being switched to ON. The cylinder lock is factory installed in the left pole only of the circuit breaker cover. Other internally mounted accessories cannot be installed in the same pole as the cylinder lock. (Factory installation only.)

#### Key Interlock Kit (Lock Not Included)

The key interlock is used to externally lock the circuit breaker handle in the OFF position. When the key interlock is locked, an extended deadbolt blocks movement of the circuit breaker handle. Uniquely coded keys are removable only with the deadbolt extended. Each coded key controls a group of circuit breakers for a given specific customer installation.

The key interlock assembly is Underwriters Laboratories listed for field installation under UL File E7819 and consists of a mounting kit and a purchaser supplied deadbolt lock. The mounting kit comprises a mounting plate, which is secured to the circuit breaker cover in either the left- or right-pole position, key interlock mounting screws, and a wire seal. Specific mounting kits are required for individual key interlock types.

#### Sliding Bar Interlock

The sliding bar interlock provides mechanical interlocking between two adjacent three-pole circuit breakers. It is installed on the enclosure cover between the circuit breakers. When the sliding bar interlock handle is moved from one side to the other, a bar extends to alternately block movement of the circuit breaker handles and prevents both circuit breakers from being switched to ON at the same time. Sliding bar interlocks are not UL listed. (Field installation only.)

#### Walking Beam Interlock

The walking beam Interlock provides mechanical interlocking between two adjacent circuit breakers of the same pole configuration. The walking beam interlock mounts on a bracket behind and between the circuit breakers. A plunger on each end of the beam is inserted through an access hole in the back plate and base of each circuit breaker. The walking beam interlock prevents both circuit breakers from being switched ON at the same time. If a walking beam interlock is installed, the wiring troughs in the back of the circuit breaker case are blocked by the plungers and cannot be used for cross wiring. Factory modified circuit breakers are required for this application. UL File E38116.

#### Electrical Operator

The electrical (solenoid) operator is a single solenoid mechanism that enables local and remote circuit breaker ON, OFF, and reset switching. The electrical operator is mounted on the circuit breaker cover within the trimline of the circuit breaker. The electrical operator uses a unique bi-stable latch that allows the device to operate using one solenoid. The accessory provides high-speed switching with a maximum operating time of 5 cycles (80 mS), making it suitable for generator synchronizing applications.

Means are provided for remote electrical operation and for local manual operation. A special slide includes provisions for padlocking the circuit breaker handle in the OFF position. The slide will accept three padlock shackles with a maximum diameter of 1/4-inch (6.4 mm) each. An interlock electrically disconnects the solenoid when the electrical operator cover is removed. The rating data tables provide electrical rating data for the electrical (solenoid) operator.

# Molded Case Circuit Breakers

Series C

#### Lock Dog (Non-Padlockable)



•	Lock Dog (Non-Padlockable) G-Frame GD/GHC/GHB/GMCP		
	Number of Units in Package	Catalog Number	
	1	1294C01H01	

#### Handle Tie G-Frame-GHB/GHC

Number of Poles	Number of Units in Package	Catalog Number	
2	10	HTBGD2P	
3	10	HTBGD3P	

#### Non-Padlockable Handle Block



#### Non-Padlockable Handle Block

al alla	Frame	
	F	
8.mm	J, K	
	L, M, N	

rame	Catalog Number
:	LKD1
I, K	LKD3
, M, N	LKD4

#### **Padlockable Handle Lock**

Padlockable Handle	Padlockable Handle Lock	
Lock	Frame	Catalog Number
	G	GPHBOFF
	J, K	PHB3

#### Snap-On Padlockable Handle Lock Hasp

Snap-On Padlockable	Snap-On Padlockable Handle Lock Hasp	
Handle Lock Hasp	Frame	Catalog Number
	F	PHL1

#### Notes

① Accepts 0.285 Lock Shank.

<sup>(2)</sup> Padlockable in the OFF position only.

#### Padlockable Handle



Padlockable G-Frame GD/GHC/GHB		
Number of Units in Package	Catalog Number <sup>(†)</sup>	
10	1223C77G03	
10	1223C77G05 2	
10	1223C77G06 2	

#### Padlockable Handle Lock Hasp

Padlockable Handle Lock Hasp

Padlockable Handle Lock Hasp		
Description	Catalog Number	
F-Frame		<u> </u>
Single-pole breakers	PHL1	
Two-, three- and four-pole breakers	PLK1	
For left side mounting	PLK1L0FF	
For right side mounting	PLK1R0FF	
J, K-Frames		
Two-, three- and four-pole breakers	PLK3	
For left side mounting	PLK3LOFF 1	
For right side mounting	PLK3ROFF 1	
L-Frame (Side Mounted)		
Lock ON or OFF	HLK4	
Lock OFF only (left-hand mount)	HLK4LOFF 1	
L-Frame (Top Mounted)		
Lock ON or OFF	HLK4S	
Lock OFF only	HLK4SOFF 1	
M-Frame		
Lock ON or OFF	HLK4	
Lock OFF only (left-hand mount)	HLK4LOFF 1	
M-Frame (Vertical Mounting)		
Lock ON/OFF	HLK4S	
Lock OFF only	HLK4SOFF	
N-Frame		
Side mounted	PLK5	
Top mounted (ON/OFF)	PLK5S	
Top mounted (OFF only)	PLK5SOFF 1	
R-Frame		
Lock ON/OFF	HLK6	
Lock OFF only	HLK60FF 1	

#### Cylinder Lock



#### **Cylinder Lock**



Catalog Number Frame F, J, K Order by description

#### Note

 $^{\odot}\,$  For padlockable handle lock hasp to padlock handle in OFF position only, order either catalog number.