

**DEH-41460 Installation Instructions**

**EntelliGuard® G Circuit Breaker**

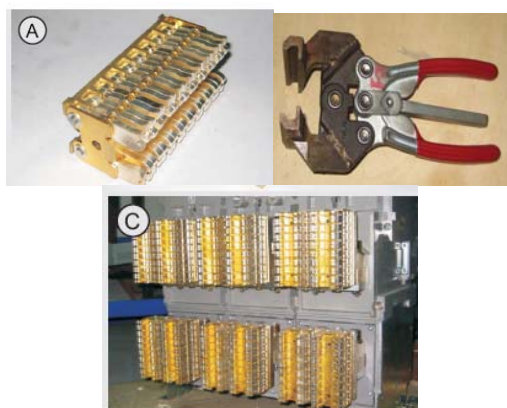
**Accessories**

**Clusters:**

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These are the main isolating contacts which are fitted to the rear terminals on the moving portion of the with drawable unit

As part of standard inspection and maintenance procedures, cluster contacts have been designed to be easily and quickly removed and replaced using cluster pliers. These clusters are mounted horizontally and vertically thru cluster pads for different envelope sizes. The slot is provided on the terminals for locking the clusters. For higher current and short circuit ratings the clusters are assembled parallel.



**Table 1. Cluster Catalog and Ratings**

Envelope Size	Catalog #	Current Rating
Envelope 1	<b>G20NCLS</b>	2000A
Envelope 2	<b>G20MCLS</b>	2000A
	<b>G32ECLS</b>	3200A
Envelope 3	<b>G64LCLS</b>	6000A

**WARNING:** Before installing any accessories, turn the breaker OFF, disconnect it from all voltage sources, and discharge the closing springs.

**AVERTISSEMENT:** Avant d'installer tout accessoire, mettre le disjoncteur en position OFF, le déconnecter de toute tension d'alimentation, et décharger les ressorts d'armement

**Removal of Cluster assembly using cluster pliers:**

1. Turn the breaker off and discharge the closing springs by depressing the OFF and ON buttons in the sequence OFF-ON-OFF. Verify that the breaker OFF-ON indicator shows OFF on a green background and that the charge indicator shows DISCHARGE on a white background. If installing in a draw-out type breaker remove breaker from adaptor (cassette) before continuing.
2. The breaker should be safely isolated and fully removed from the cassette/panel.
3. Inspect the rear cluster contacts for signs of overheating and wear and replace if necessary.
4. Hold & position the cluster plier jaws on the cluster fingers of the cluster finger assembly at the rear ends.
5. Press the extended handles of the cluster plier assembly such that the cluster assembly becomes loose on the rear terminals.

6. Slide outwards the cluster assembly over the rear terminals.

#### **Installing Cluster assembly using cluster pliers:**

1. Hold & position the cluster plier jaws on the cluster fingers of the cluster finger assembly at the rear ends
2. Press the extended handle of the cluster plier assembly such that the cluster assembly opens at the other end.

3. Slide the cluster assembly along with the cluster pliers on to the rear terminals.
4. Release the extended handles gently so that the clusters properly seats on the grooves of rear terminal
5. Assemble the breaker in the cassette

These instructions do not cover all details or variations in equipment nor do they provide for every possible contingency that may be met in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise that are not covered sufficiently for the purchaser's purposes, the matter should be referred to the ABB Inc.

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