

# Instructions for Installation, Operation and Maintenance of Type VCP-W Dummy Element

## 1-1 GENERAL INFORMATION



### WARNING

**THE DUMMY ELEMENT IS NOT A SWITCHING DEVICE AND THEREFORE IT REQUIRES SPECIAL INTERLOCKING SYSTEM FOR SAFE OPERATION. THIS SYSTEM INSURES THAT THE DUMMY ELEMENT CANNOT BE LEVERED FROM THE TEST POSITION TO THE CONNECTED POSITION OR VICE VERSA, UNLESS ALL SOURCES TO IT ARE DISCONNECTED AND LOCKED IN THAT POSITION. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN SERIOUS INJURY, DEATH, AND/OR EQUIPMENT DAMAGE.**

Dummy elements are used as a means of isolating circuits or bus sections where operation is infrequent and a circuit breaker cannot be economically justified. The device consists of a circuit breaker mechanism frame and primary insulator supports with six primary studs including disconnecting devices. Copper rods are bolted in the location normally occupied by vacuum interrupters. The stationary structure is the same as for a circuit breaker. When the device is fully levered in, it connects the top set of metal-clad primary disconnects to the bottom set.

## 1-2 USE

Refer to Figures 1-1 and 1-2 for reference assistance.

The interlocking system consists of an operator ① on the dummy element and the dummy/breaker position interlock ② in its compartment as well as all source breaker compartments connecting to the dummy element.

In order to lever the dummy element, access to the compartment levering device ③ is required. This access is blocked regardless of whether the dummy element is in the Test or the Connected position. The key ④ to unlock the access can be obtained only by levering the source breaker(s) out to the Test position and locking it (them) in that position. This assures that the dummy element can be levered in or out only in safe mode; i.e. when breaker(s) is locked in the Test position. Since the breakers do not have the operator, they can be locked only in the Test position.

In case there is more than one source, the key for the dummy element interlock will usually be obtained from a transfer lock at which all the source keys are accumulated and captured before the dummy element key can be obtained.

## NOTICE

**When applying the dummy element in the system, the dummy/breaker position interlocks must be used in the dummy as well as all source breaker compartments. These interlocks will prevent most breakers from being levered into a dummy cell. However there may be some instances when a breaker can be levered into a dummy cell. When and if this should happen the interlocking system will not allow the breaker to be locked into the connected position of the dummy cell. This will prevent the removal of the interlock key from the dummy cell thus preventing the source breaker (s) from being unlocked and levered into the source cells.**

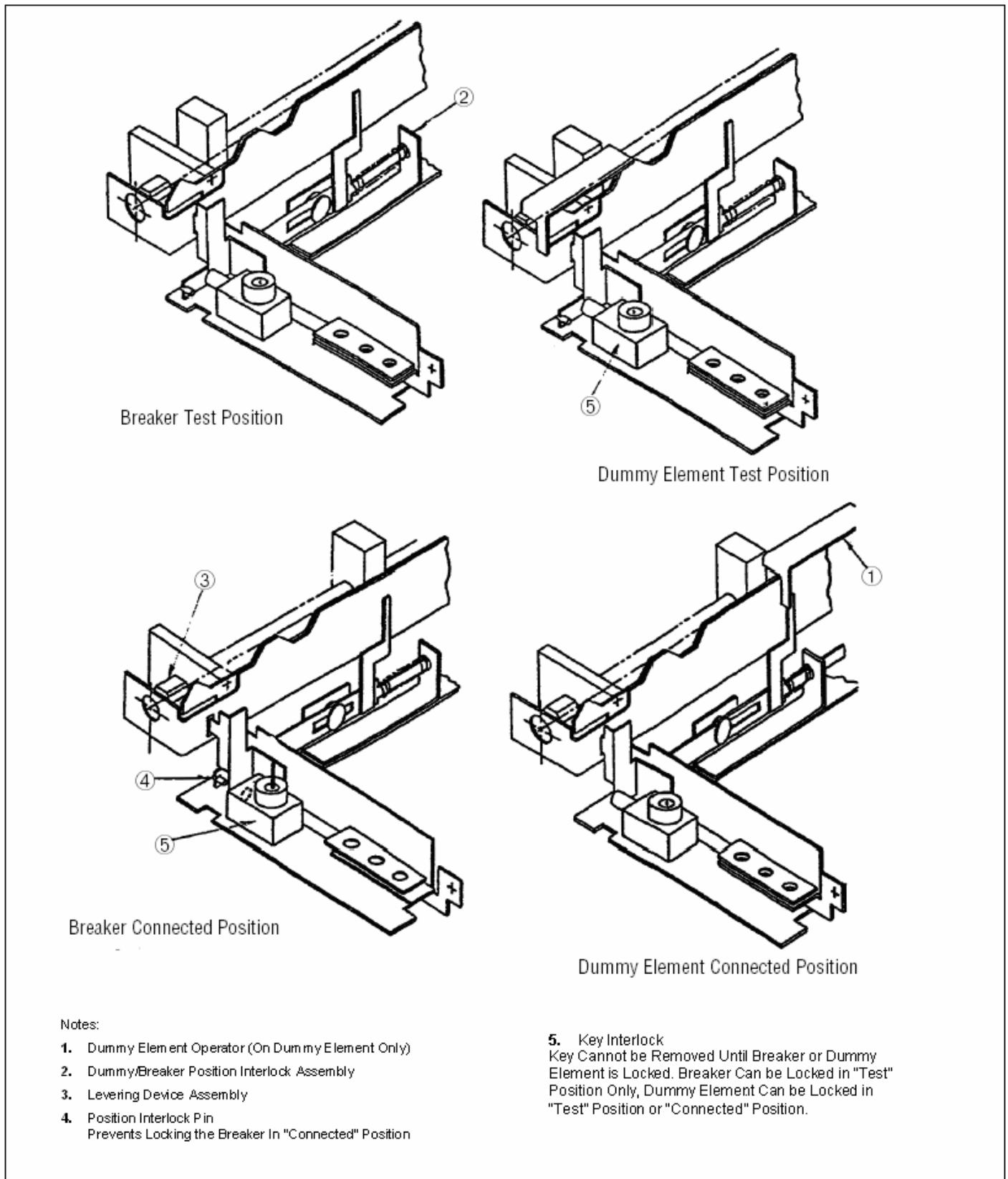


Figure 1-1 Position References

Identification	B	C	D	E
50/350 150/1 000 & all 3000 A VCP-W Dummy Elements	12.00	13.63	29.94	31.22
All Other VCP-W Dummy Elements	12.00	13.63	29.81	29.44
270 VCP-W Dummy Element	14.00	16.25	34.80	35.22

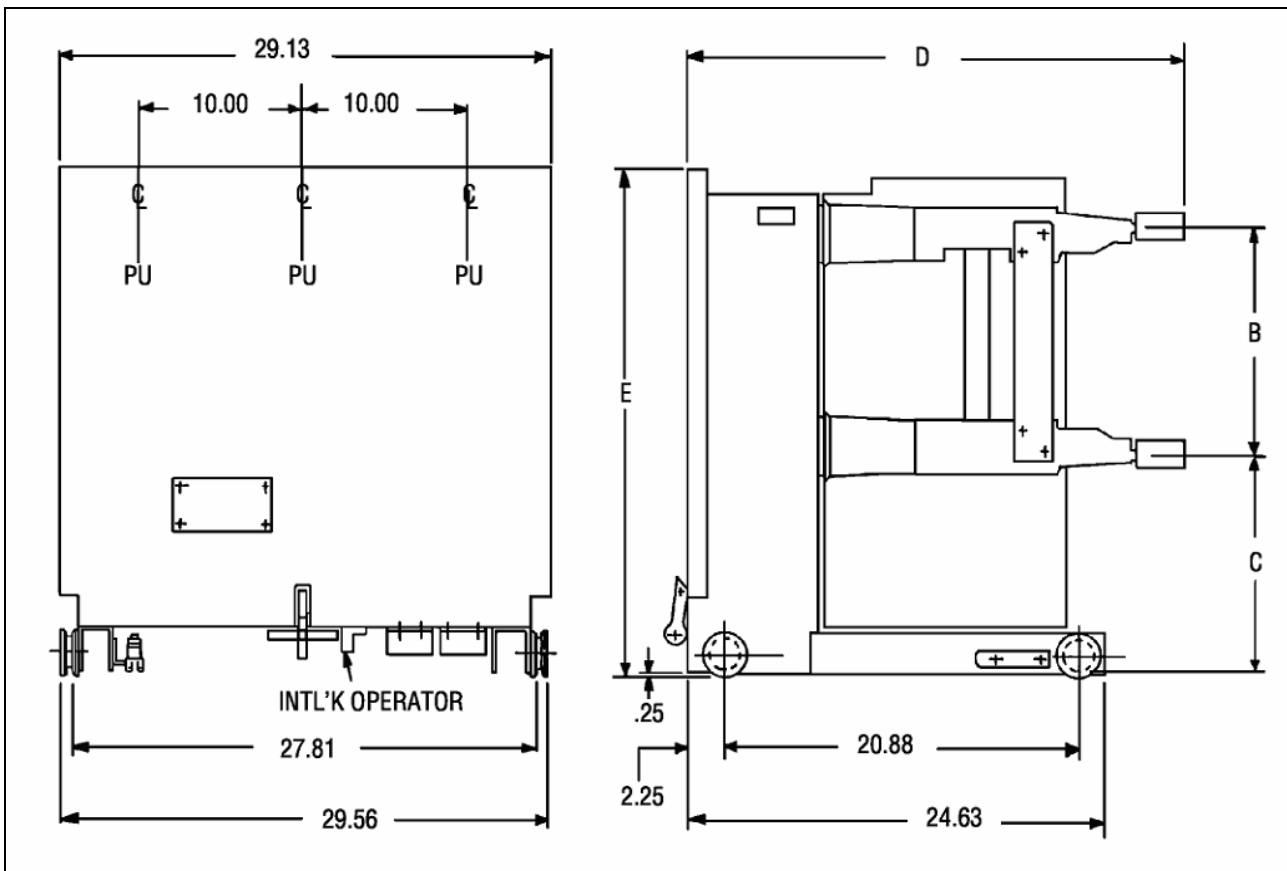
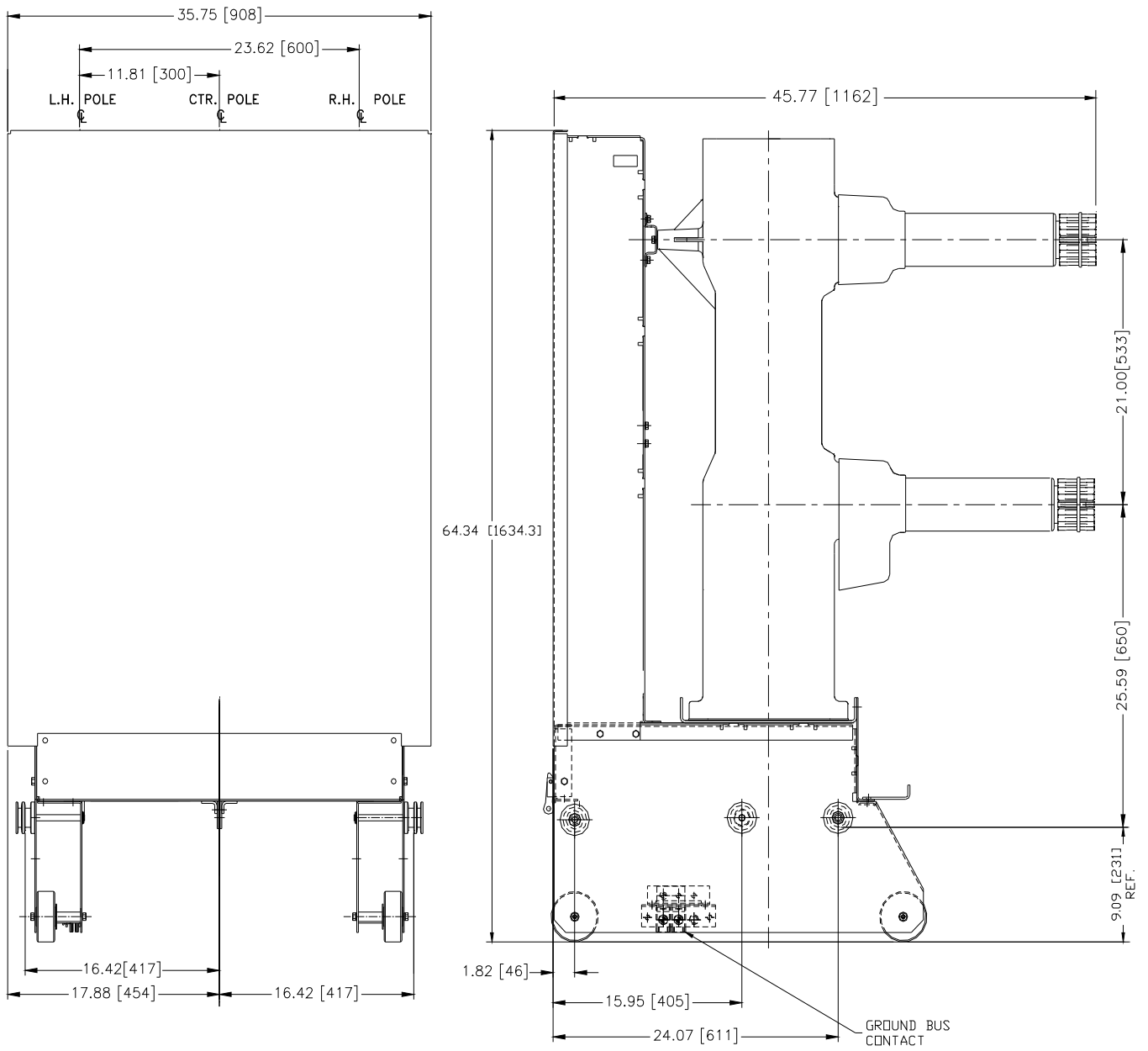


Figure 1-2 Dummy Element Outlines (Inches)

### 380 VCP-W Dummy Element



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