Molded vacuum interrupter and switchgear controls

Choose among various electronic control options to interrupt faults.

- Self-powered electronic control packages — no batteries or external power are required
- Controls send a signal to the vacuum interrupters to trip open and interrupt the fault when an overcurrent condition is detected
- Field-selectable fuse or relay curves and trip settings — one device for many protection schemes

Molded vacuum interrupters are provided with self-powered electronic control packages requiring no batteries or external power. Depending on the application, six electronic control options are available for the MVI — see below and on following page.

Internal control

This control is integral to the unit (no separate control box). It is accessible via a computer connection to view or modify settings. This control is used on ganged three-phase or single-phase MVI interrupters. Phase and ground trip, as well as inrush restraint, are available. The E-Set software enables the user to connect to the internal control, either in the shop or in the field, to program or change settings. An MVI-STP-USB programming connector is required to connect between the PC and the MVI. With a computer connected to the MVI control, the user can view real-time currents, the number of overcurrent protection operations, current magnitude of the last trip and the phase/ground fault targets. This is the standard control option.

Note: E-Set can be downloaded from **www.elastimoldswitchgear.com**.

External control with selectable single-/three-phase trip function (style 80)

This control is mounted externally to the mechanism of the interrupter and provides the ability to select between a single-phase trip and a three-phase trip. The 80 can be used with one three-phase interrupter or the 380 Control with three single-phase interrupters. For three-phase applications, the ground trip function can be blocked from the front panel. Manual trip and reset target buttons are also located on the front panel. This control uses the E-Set software, which enables programming via a computer using the MVI-STP-USB adapter. E-Set features custom TCC curves and provides access to the last fault event information, as well as real-time current per phase.

Molded vacuum interrupter and switchgear controls

A

Smart grid ready

Works with the industry-leading protection and automation controls
– SEL® automation controls from Schweitzer Engineering Laboratories

SEL®-751A
Feeder protection

SEL®-451
Automation and auto-transfer controls
(standard and fast transfer options)

Elastimold 80 control time current curves (TCCs)

Curve No.	Curve Reference No.	Curve Type
Relay curves (minimum trip 30–600A)		
01	MVI-TCC-01	E Slow
02	MVI-TCC-02	E Standard
03	MVI-TCC-03	Oil Fuse Cutout
04	MVI-TCC-04	K
05	MVI-TCC-05	Kearney QA
06	MVI-TCC-06	Cooper EF
07	MVI-TCC-07	Cooper NX-C
08	MVI-TCC-08	CO-11-1
09	MVI-TCC-09	CO-11-2
10	MVI-TCC-10	T
11	MVI-TCC-11	CO-9-1
12	MVI-TCC-12	CO-9-2
13	MVI-TCC-13	Cooper 280ARX
14	MVI-TCC-14	F
16	MVI-TCC-16	Kearney KS
17	MVI-TCC-17	GE Relay
18–23	MVI-TCC-18–23	CO-8-1–CO-8-6
24–27	MVI-TCC-24–27	CO-9-3–CO-9-6
28–31	MVI-TCC-28–31	CO-11-3–CO-11-6
Fuse curves (minimum trip 10–200A)		
54	MVI-TCC-54	E Slow
55	MVI-TCC-55	E Standard
56	MVI-TCC-56	Oil fuse cutout
57	MVI-TCC-57	K
58	MVI-TCC-58	Kearney QA
59	MVI-TCC-59	Cooper NX-C
60	MVI-TCC-60	T