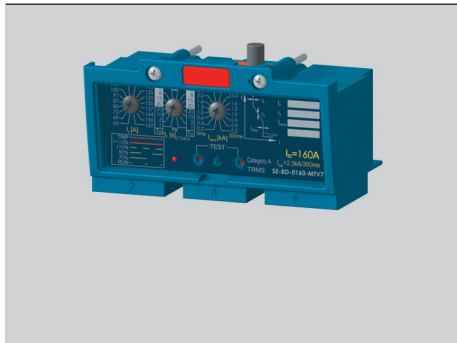


OVERCURRENT RELEASES



Description

The SE-BD-...-MTV7 release is intended for BD250... switching units. The operation of the release is controlled by a microprocessor. The release is equipped with a thermal memory that can be disabled by turning a switch on the front panel from position $T_{(t)}$ to position $T_{(0)}$. After disabling of the thermal memory, the thermal release remains active.

When one or two phases fail (due to current greater than I_r in the remaining phases), in the M-characteristic mode, the switch will open with a 4 s delay (so-called undercurrent release).

Another parameter for adjusting the release consists of the rated current and short-circuit tripping level. The time delay of the short-circuit release can be set to 0 or 300 ms. The operational state 70% of I_r is signalled by an LED indicator that flashes green in a 1.5 s interval. As the load grows, the blinking frequency of the diode increases. In case of a load larger than 110% of I_r , this LED will turn red and just before tripping will begin to blink red. On the lower part of the release cover are two photocells for communicating with the prospective signalling unit.

The releases have tripping characteristics especially designed for practical purposes that provide for optimal exploitation of transformers up to 1.5 I_r . A total of 8 characteristics can be set on the release. Mode "M" provides 4 characteristics suitable for protecting motors and in mode "TV" are 4 characteristics for protecting transformers and lines. The shape of each characteristic can be changed using a selector switch.

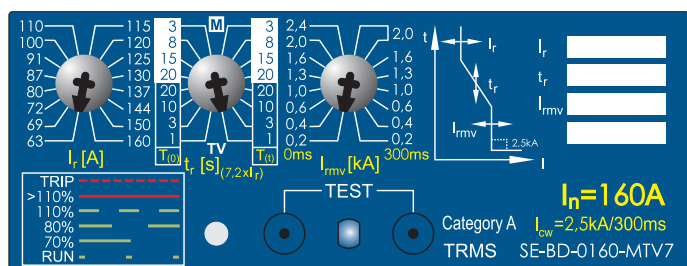
MTV7

- for protection of long lines and transformers
- suitable also for direct protection of motors and generators

I_n [A]	Type	Product code	Description	Weight [kg]	Package [pc] ¹⁾
100	SE-BD-0100-MTV7	39250	Regulation $I_r = 40 \div 100$ A	0.317	1
160	SE-BD-0160-MTV7	39251	Regulation $I_r = 63 \div 160$ A	0.317	1

Specifications - adjustable

Type	I_n [A]	I_r [A]	t_r [s] (7,2 x I_r)	restart	I_{rmv} [kA]
SE-BD-0100-MTV7	100	40	1 (TV 1)	$T_{(0)}$	0.125
		43	3 (TV 3)	$T_{(0)}$	0.25
		46	10 (TV 10)	$T_{(0)}$	0.4
		48	20 (TV 20)	$T_{(0)}$	0.6
		50	20 (M 20)	$T_{(0)}$	0.8
		55	15 (M 15)	$T_{(0)}$	1.0
		58	8 (M 8)	$T_{(0)}$	1.25
		61	3 (M 3)	$T_{(0)}$	1.5
		63	3 (M 3)	$T_{(t)}$	1.5
		69	8 (M 8)	$T_{(t)}$	1.25
		72	15 (M 15)	$T_{(t)}$	1.0
		76	20 (M 20)	$T_{(t)}$	0.8
		80	20 (TV 20)	$T_{(t)}$	0.6
		87	10 (TV 10)	$T_{(t)}$	0.4
		91	3 (TV 3)	$T_{(t)}$	0.25
		100	1 (TV 1)	$T_{(t)}$	0.125
SE-BD-0160-MTV7	160	63	1 (TV 1)	$T_{(0)}$	0.2
		69	3 (TV 3)	$T_{(0)}$	0.4
		72	10 (TV 10)	$T_{(0)}$	0.6
		80	20 (TV 20)	$T_{(0)}$	1.0
		87	20 (M 20)	$T_{(0)}$	1.3
		91	15 (M 15)	$T_{(0)}$	1.6
		100	8 (M 8)	$T_{(0)}$	2.0
		110	3 (M 3)	$T_{(0)}$	2.4
		115	3 (M 3)	$T_{(t)}$	2.0
		120	8 (M 8)	$T_{(t)}$	2.0
		125	15 (M 15)	$T_{(t)}$	1.6
		130	20 (M 20)	$T_{(t)}$	1.3
		137	20 (TV 20)	$T_{(t)}$	1.0
		144	10 (TV 10)	$T_{(t)}$	0.6
		150	3 (TV 3)	$T_{(t)}$	0.4
		160	1 (TV 1)	$T_{(t)}$	0.2



OVERCURRENT RELEASES MTV7

Tripping characteristic SE-BD-...-MTV7

