

Guide to emergency overload capability



Powering Business Worldwide

General

Recloser applications may include situations where short-time or emergency loading of the recloser may exceed the recloser's continuous current rating. New reclosers, or reclosers that have been properly maintained, normally have the capability to carry some current above the continuous-current rating for a limited period of time. As the recloser contacts become worn due to normal erosion, the overload capability will decrease.

On Eaton Cooper Power series hydraulically controlled reclosers, the continuous- current rating of the recloser is the same as the continuous- current rating of the series coil used therein. Normally,

the minimum trip current will be twice the series coil rating; coils with an X suffix (400X and 560X) have a minimum trip rating that is approximately 140% of the coil rating.

On Eaton Cooper Power series electronically controlled reclosers, the continuous- current rating is independent of the programmed minimum trip.

The following information can be used as a guide where emergency loading of Eaton Cooper Power series reclosers may be required. Data is based on a new or well-maintained recloser, operating at an ambient temperature of 25° C (77° F) and allows some temperature rise in excess of that permitted under normal load.

Table 1. Hydraulically controlled reclosers

Type	Series coil rating (amps)	Maximum hours at:		
		125% of series coil rating	150% of series coil rating	175% of series coil rating
H	5 thru 50	8	4	2
4H, 6H	5 thru 100	8	4	2
V4H, V6H	5 thru 200	8	4	2
L	25 thru 140	8	4	2
	200 and 280	3	1	*
V4L	25 thru 140	8	4	2
	200 and 280	4	2	*
D, DV	100 thru 280	20	8	4
	400 and 560	4	2	*
E	5 thru 100	8	4	2
4E	50 thru 140	20	8	2
	200 and 280	4	2	*
V4E	50 thru 140	8	4	2
	200 and 280	4	2	*
W, WV27	100 thru 280	20	8	4
	400 and 560	4	2	*
VV, VVV27, VVV38X, WV38X	50 thru 280	20	8	4
	400 and 560	4	2	*

*Not recommended for use at this overload level.

Table 2. Electronically controlled reclosers

Type	Continuous current rating (amps)	Maximum hours at:	
		125% of continuous current rating	150% of continuous current rating
VXE15, VXE27	400	4	2
NOVA ¹ -15-8, NOVA ¹ -27-8, NOVA-TS-15-8, NOVA-TS-27-8	400	8	4
VWE, WE, VVWE27, VVWE38X, WVE27, WVE38X	560	4	2
PWE, PWVE	560	8	4
VSO12, VSO16	560	8	4
VSA12, VSA16, VSA20	800	*	*
VSA20A, VSA20B	1200	1	*
VSA12B	600	4	1
NOVA ¹ -15-12, NOVA ¹ -27-12, NOVA-TS-15-12, NOVA-TS-27-12	800	*	*
NOVA15, NOVA27, NOVA38	630	8	*
NOVA15, NOVA27, NOVA38	800 **	*	*

*Not recommended for use at this overload level.

**With 800 amp accessory.

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