

# Switch-fuse combination

on distribution transformers  
in compliance with EN 62271-105



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ISO 9001  
ISO 14001  
BUREAU VERITAS  
Certification



## Switch-fuse combination on distribution transformers

Switch-fuse combinations are three-pole switches comprising a functional unit of load switch and current-limiting fuse. The scope of application of these combinations is predominantly in transformer protection systems where it covers the range of small and medium ratings.

The standard specification of the switch-fuse combinations governs complete protection, i.e. all fault currents above a permissible overload range (usually 1.5 times the rated capacity of the transformer) up to the rated short-circuit breaking current are reliably controlled.

Transformer protection can therefore be implemented reliably, simply and most economically using a switch-fuse combination, making a circuit-breaker with overcurrent time protection and associated current transformers no alternative. Protection measures such as Buchholz protection or thermal protection can still be implemented with the switch.

Rated voltage kV	Transformer rated capacity kVA	Type of load disconnector			Rated current of HV fuse	
		H 22	H 27	3007	min. A	max. A
12	50	Yes	Yes	-	6,3	6,3
	80	Yes	Yes	-	10	10
	100	Yes	Yes	-	10	16
	125	Yes	Yes	-	16	20
	160	Yes	Yes	-	20	25
	200	Yes	Yes	-	25	31,5
	250	Yes	Yes	-	31,5	40
	315	Yes	Yes	-	31,5	50
	400	Yes	Yes	-	40	50
	500	Yes	Yes	-	50	63
	630	Yes	Yes	-	63	
	800	Yes	Yes	-	80	
	1000	Yes	Tripping delay	-	100	
	1250	Tripping delay	No	-	125	
	1600	No	No	-	Circuit breaker	
25	50	Yes	Yes	Yes	6,3	6,3
	80	Yes	Yes	Yes	6,3	6,3
	100	Yes	Yes	Yes	6,3	10
	125	Yes	Yes	Yes	10	16
	160	Yes	Yes	Yes	10	20
	200	Yes	Yes	Yes	16	20
	250	Yes	Yes	Yes	16	25
	315	Yes	Yes	Yes	20	25
	400	Yes	Yes	Yes	25	31,5
	500	Yes	Yes	Yes	25	40
	630	Yes	Yes	Yes	31,5	50
	800	Yes	Yes	Yes	40	50
	1000	Yes	Yes	Yes	50	63
	1250	Yes	Yes	Yes	63	
	1600	Yes	Yes	No	80	
2000	Tripping delay	Tripping delay	No	100		
2500	Tripping delay	Tripping delay	No	125		
3150	No	No	No	Circuit breaker		
38,5	50	Yes	-	-	6,3	6,3
	80	Yes	-	-	6,3	6,3
	100	Yes	-	-	6,3	10
	125	Yes	-	-	6,3	16
	160	Yes	-	-	6,3	20
	200	Yes	-	-	10	20
	250	Yes	-	-	10	25
	315	Yes	-	-	16	25
	400	Yes	-	-	20	25
	500	Yes	-	-	25	31,5
	630	Yes	-	-	31,5	31,5
	800	Yes	-	-	31,5	40
	1000	Yes	-	-	40	40
	1250	Yes	-	-	40	50
	1600	Yes	-	-	50	63
2000	Yes	-	-	63		
2500	Tripping delay	-	-	80		
3150	Tripping delay	-	-	100		
4000	No	-	-	125		
5000	No	-	-	Circuit breaker		

Specifications are subject to change without notice.

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