

Semiconductor Fuses

LV HRC SITOR Fuse Links

Rated voltage 690 V AC,
operational class gR

Technical specifications

Type		3NE1 020-2	3NE1 021-2	3NE1 022-2	3NE1 224-2	3NE1 225-2	3NE1 227-2	3NE1 230-2
Operational class (IEC 60269)		gR						
Rated voltage U_n	V AC	690						
Rated current I_n	A	80	100	125	160	200	250	315
Melting I^2t value I^2t_s ($t_{vs} = 1\text{ ms}$)	A ² s	780	1490	3115	2650	5645	11520	22580
Breaking I^2t value I^2t_A at U_n	A ² s	5800	11000	23000	18600	51800	80900	168000
Temperature rise at I_n (body center) ¹⁾	K	45	49	55	70	62	70	75
Power dissipation at I_n ¹⁾	W	10.5	11.5	13.5	30	28	35	42
Varying load factor WL		1.0						
Certification		according to UL 248-13						
Weight approx.	kg	0.2			0.55			
Accessories								
Fuse base, 1-pole		3NH3 030			3NH3 230			
Fuse puller		3NX1 011						
Fuse switch disconnectors		3NP50			3NP52			3NP53
Switch disconnector with fuses		3KL52			3KL55			3KL57

Type		3NE1 331-2	3NE1 333-2	3NE1 334-2
Operational class (IEC 60269)		gR		
Rated voltage U_n	V AC	690		
Rated current I_n	A	350	450	500
Melting I^2t value I^2t_s ($t_{vs} = 1$ ms)	A ² s	29500	46100	66400
Breaking I^2t value I^2t_A at U_n	A ² s	177000	276500	398000
Temperature rise at I_n (body center) ¹⁾	K	82	100	
Power dissipation at I_n ¹⁾	W	44	62	65
Varying load factor WL		1.0		
Certification		according to UL 248-13		
Weight approx.	kg	0.7		
Accessories				
Fuse base, 1-pole		3NH3 230	3NH3 340	
Fuse puller		3NX1 011	3NX1 011	
Fuse switch disconnectors		3NP53	3NP54	
Switch disconnector with fuses		3KL57	3KL61	

Type		3NE1 435-2	3NE1 436-2	3NE1 447-2	3NE1 437-2	3NE1 438-2	3NE1 448-2
Operational class (IEC 60269)		gR					
Rated voltage U_n	V AC	690					
Rated current I_n	A	560	630	670	710	800	850
Melting I^2t value I^2t_s ($t_{vs} = 1$ ms)	A ² s	130000	203000	240000	265000	361000	520000
Breaking I^2t value I^2t_A at U_n	A ² s	890000	1390000	1640000	1818000	2475000	3640000
Temperature rise at I_n (body center) ¹⁾	K	80	82	90		95	
Power dissipation at I_n ¹⁾	W	60	62	65	72	82	76
Varying load factor WL		1.0					
Certification		according to UL 248-13					
Weight approx.	kg	1.0					
Accessories							
Fuse base, 1-pole		3NH3 340					
Fuse puller		3NX1 011					
Fuse switch disconnectors		3NP54		3NP54			
Switch disconnector with fuses		3KL61		3KL62			

¹⁾ Temperature rise and power dissipation for operation in LV HRC fuse base.