

Semiconductor Fuses

SITOR Fuse Links for Special Applications

For SITOR thyristor sets

Technical specifications

Type		3NE4 117-5	3NE4 121-5	3NE4 146-5	3NE3 525-5 ¹⁾	3NE3 535-5 ¹⁾
Operational class (IEC 60269)		gR	aR			
Rated voltage U_n	V AC	1000		800	1000	
Rated current I_n	A	50	100	170	200 ²⁾	450 ²⁾
Melting I^2t value I^2t_s ($t_{vs} = 1$ ms)	A ² s	135	900	7370	7150	64500
Breaking I^2t value I^2t_A at U_n	A ² s	1100	7400	60500	44000	395000
Temperature rise at I_n (body center)	K	95	135	142	75	130
Power dissipation at I_n	W	20	35	43	50	90
Varying load factor WL		0.85				
Weight approx.	kg	0.28			0.7	

Type		3NE4 327-6B ¹⁾	3NE4 330-6B ¹⁾	3NE4 333-6B ¹⁾	3NE4 334-6B ¹⁾	3NE4 337-6 ¹⁾
Operational class (IEC 60269)		aR				
Rated voltage U_n	V AC	800				
Rated current I_n	A	250	315	450	500	710
Melting I^2t value I^2t_s ($t_{vs} = 1$ ms)	A ² s	3600	7400	29400	42500	142000
Breaking I^2t value I^2t_A at U_n	A ² s	29700	60700	191000	276000	923000
Temperature rise at I_n (body center)	K	175	170	190	195	170
Power dissipation at I_n	W	105	120	140	155	
Varying load factor WL		0.85				0.95
Weight approx.	kg	0.65				

¹⁾ Maximum tightening torque: M10 capped thread: 35 Nm, depth of screw entry ≥ 9 mm.

²⁾ Cooling air speed ≥ 0.5 m/s. In the case of natural air cooling, reduction of 5 %.