

Protection Micrologic 5 / 6 A or E trip units



Ratings (A)	In at 40 °C ⁽¹⁾	40	100	160	250	400	630
Circuit breaker	Compact NSX100	■	■	-	-	-	-
	Compact NSX160	■	■	■	-	-	-
	Compact NSX250	■	■	■	■	-	-
	Compact NSX400	-	-	-	-	■	-
	Compact NSX630	-	-	-	-	■	■

L Long-time protection

Pick-up (A) tripping between 1.05 and 1.20 I _r	I _r = ...	dial setting	value depending on trip unit rating (I _n) and setting on dial									
	In = 40 A	I _o =	18	18	20	23	25	28	32	36	40	
	In = 100 A	I _o =	40	45	50	55	63	70	80	90	100	
	In = 160 A	I _o =	63	70	80	90	100	110	125	150	160	
	In = 250 A	I _o =	100	110	125	140	150	175	200	225	250	
	In = 400 A	I _o =	160	180	200	230	250	280	320	360	400	
	In = 630 A	I _o =	250	280	320	350	400	450	500	570	630	
		keypad setting	Fine adjustment in 1 A steps below maximum value set on dial									
Time delay (s) accuracy 0 to -20 %	tr = ...	keypad setting	0.5	1	2	4	8	16				
		1.5 x I _r	15	25	50	100	200	400				
		6 x I _r	0.5	1	2	4	8	16				
		7.2 x I _r	0.35	0.7	1.4	2.8	5.5	11				

Thermal memory 20 minutes before and after tripping

S Short-time protection with adjustable time delay

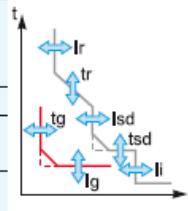
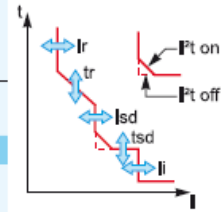
Pick-up (A) accuracy ±10 %	I _{sd} = I _r x ...	dial setting	1.5	2	3	4	5	6	7	8	10
		Fine adjustment in 0.5 x I _r steps using the keypad									
Time delay (s)	tsd = ...	keypad setting	I ² Off	0	0.1	0.2	0.3	0.4			
		setting	I ² On	-	0.1	0.2	0.3	0.4			
	Non-tripping time (ms)			20	80	140	230	350			
	Maximum break time (ms)			80	140	200	320	500			

I Instantaneous protection

Pick-up (A) accuracy ±15 %	I _i = I _n x	keypad setting	Adjustment in steps of 0.5 x I _n over the range 1.5 x I _n to: 15 x I _n (NSX100/160), 12 x I _n (NSX250/400) or 11 x I _n (NSX630)										
		Non-tripping time		10 ms									
		Maximum break time		50 ms for I > I _i									

G Ground-fault protection - for Micrologic 6 A or E

Pick-up (A) accuracy ±10 %	I _g = I _n x	dial setting										
		In = 40 A	0.4	0.4	0.5	0.6	0.7	0.8	0.9	1	Off	
		In > 40 A	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1	Off	
Fine adjustment in 0.05 A steps using the keypad												
Time delay (s)	tg = ...	keypad setting	I ² Off	0	0.1	0.2	0.3	0.4				
		setting	I ² On	-	0.1	0.2	0.3	0.4				
		Non-tripping time (ms)			20	80	140	230	350			
		Maximum break time (ms)			80	140	200	320	500			
Test	I _g function	built-in										



(1) If the trip units are used in high-temperature environments, the Micrologic setting must take into account the thermal limitations of the circuit breaker. See the temperature derating table.