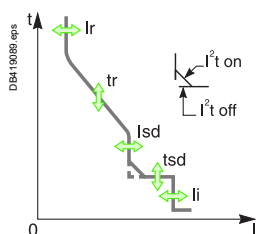


Protection of distribution systems

Compact NSX Micrologic 5 / 6 A or E trip units

Protection Micrologic 5 / 6 A or E trip units



Ratings (A)	In at 40 °C ^[1]	40 ^[2]	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 Ir	Ir = ...	dial setting	value depending on trip unit rating (In) and setting on dial									
	In = 40 A	Io =	18	18	20	23	25	28	32	36	40	
	In = 100 A	Io =	40	45	50	55	63	70	80	90	100	
	In = 160 A	Io =	63	70	80	90	100	110	125	150	160	
	In = 250 A	Io =	100	110	125	140	160	175	200	225	250	
	In = 400 A	Io =	160	180	200	230	250	280	320	360	400	
	In = 630 A	Io =	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 Ir	15	25	50	100	200	400				
		6 x Ir	0.5	1	2	4	8	16				
		7.2 x Ir	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 %	Isd = Ir x ...	dial setting for Micrologic 5	1.5	2	3	4	5	6	7	8	10
		keypad settings for Micrologic 6	Adjustment in steps of 0.5 x Ir over the range 1.5 x Ir to 10 x Ir								
Time delay (s)	tsd = ...	keypad setting	I²Off	0	0.1	0.2	0.3	0.4			
		setting	I²On	-	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

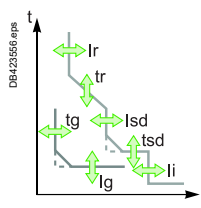
Pick-up (A) accuracy ±15 %	li = In x	keypad setting	Adjustment in steps of 0.5 x In over the range 1.5 x In to: 15 x In (40 to 160 A), 12 x In (250 to 400 A) or 11 x In (630 A)								
	Non-tripping time		10 ms								
	Maximum break time		50 ms for I > li								

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

Pick-up (A) accuracy ±10 %	Ig = In 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	I²Off	0	0.1	0.2	0.3	0.4			
		setting	I²On	-	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	Ig 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.

[2] For 40 A rating, the neutral N/2 adjustment is not possible.



B