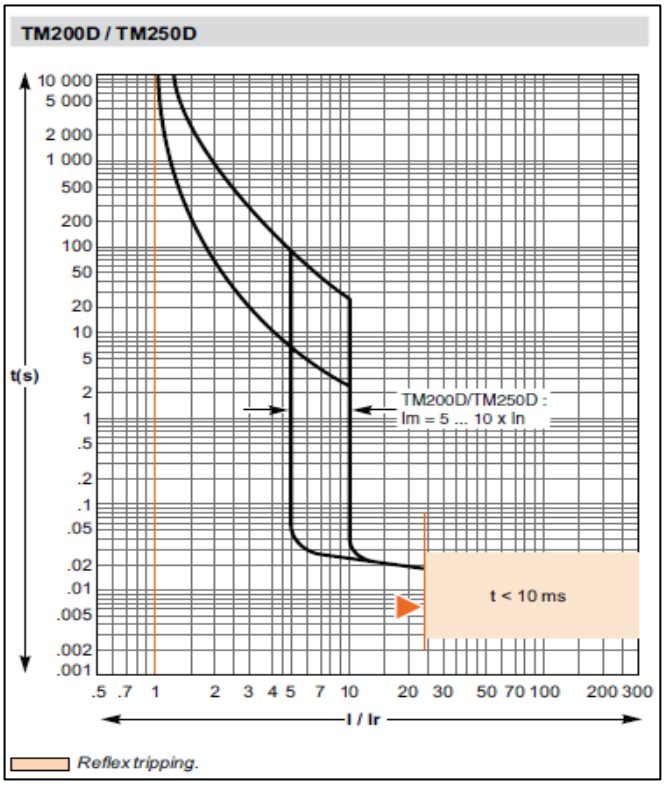
Thermal Magnetic Circuit Breaker
NSX with TMD Trip Unit

Rated Voltage to earth with Cmin (230 Vac x 0.95) = **218.5**

Catalogue Number	Long Time Setting (Ir)	Thermal Setting A	Short Time		
			Setting (Im @ 0.4s)	Current * A	Upper limit Zs (ohms)
NSX 100 - TM16D	1	16	Fixed	190	0.96
	0.9	14			
	0.8	13			
	0.7	11			
NSX 100 - TM25D	1	25	Fixed	300	0.61
	0.9	23			
	0.8	20			
	0.7	18			
NSX 100 - TM32D	1	32	Fixed	400	0.46
	0.9	29			
	0.8	26			
	0.7	22			
NSX 100 - TM40D	1	40	Fixed	500	0.36
	0.9	36			
	0.8	32			
	0.7	28			
NSX 100 - TM50D	1	50	Fixed	500	0.36
	0.9	45			
	0.8	40			
	0.7	35			
NSX 100 - TM63D	1	63	Fixed	500	0.36
	0.9	57			
	0.8	50			
	0.7	44			
NSX 100 - TM80D	1	80	Fixed	640	0.28
	0.9	72			
	0.8	64			
	0.7	56			
NSX 100 - TM100D	1	100	Fixed	800	0.23
	0.9	90			
	0.8	80			
	0.7	70			
NSX 160 - TM125D	1	125	Fixed	1,250	0.146
	0.9	113			
	0.8	100			
	0.7	88			
NSX 160 - TM160D	1	160	Fixed	1,250	0.146
	0.9	144			
	0.8	128			
	0.7	112			
NSX 250 - TM200D	1	200	10	2,000	0.091
	0.9	180	9	1,800	0.101
	0.8	160	8	1,600	0.114
	0.7	140	7	1,400	0.130
			6	1,200	0.152
			5	1,000	0.182
NSX 250 - TM250D	1	250	10	2,500	0.073
	0.9	225	9	2,250	0.081
	0.8	200	8	2,000	0.091
	0.7	175	7	1,750	0.104
			6	1,500	0.121
			5	1,250	0.146

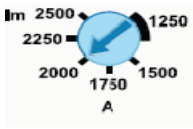
* The short time tripping current tolerance level + - 20%



Example Trip curve 200, 250A circuit breaker

Circuit Breaker rating 250A

Long Time Settings
Current Rating = Ir x (In) Circuit Breaker Nominal Rating
Ir = 0.7, 0.8, 0.9, 1



Short Time Settings
Tripping Level = Im x (In) Circuit Breaker Nominal Rating
125 & 160A Im = fixed
200 & 250A Im = 5, 6, 7, 8, 9, 10 x (In) Nominal rating

The value of Earth Loop Impedance (Zs) for a circuit breaker may be calculated by dividing the current required to trip at the required tripping time into the phase to earth voltage of the system.

The earth fault loop impedance Zs (Ohms) = Rated Voltage to earth (Vac) / Device opperating Current (A)