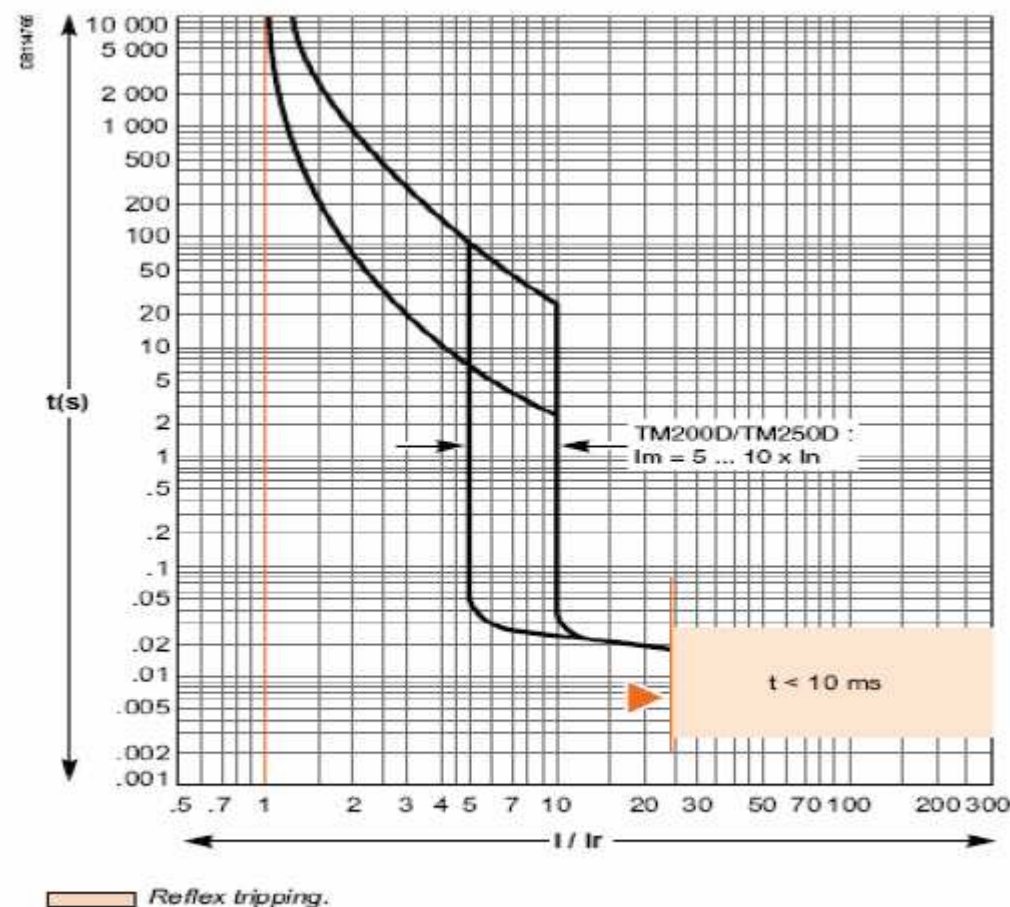


Technical Data Sheet

Partner – Thermal Magnetic Circuit Breaker (With Cmin factor) CDXAE, CHXAE, CNXAE with TMD Trip Unit

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

Catalogue Number	Short Time Setting (I_m @ 0.4s)	Long Time Setting (I_r)	Catalogue		
			Number (I_m @ 0.4s)	Current * A	Upper limit Z_s (ohms)
CDXAE34016 CHXAE34016 CNXAE34016	1 0.9 0.8 0.7	16 14 13 11	Fixed	190	0.96
CDXAE34025 CHXAE34025 CNXAE34025	1 0.9 0.8 0.7	25 23 20 18	Fixed	300	0.61
CDXAE34032 CHXAE34032 CNXAE34032	1 0.9 0.8 0.7	32 29 26 22	Fixed	400	0.46
CDXAE34040 CHXAE34040 CNXAE34040	1 0.9 0.8 0.7	40 36 32 28	Fixed	500	0.36
CDXAE34050 CHXAE34050 CNXAE34050	1 0.9 0.8 0.7	50 45 40 35	Fixed	500	0.36
CDXAE34063 CHXAE34063 CNXAE34063	1 0.9 0.8 0.7	63 57 50 44	Fixed	500	0.36
CDXAE34080 CHXAE34080 CNXAE34080	1 0.9 0.8 0.7	80 72 64 56	Fixed	640	0.28
CDXAE34100 CHXAE34100 CNXAE34100	1 0.9 0.8 0.7	100 90 80 70	Fixed	800	0.23



CHXAE34125 CNXAE34125	1	125	Fixed	1,250	0.146
	0.9	113			
	0.8	100			
	0.7	88			
CHXAE34160 CNXAE34160	1	160	Fixed	1,250	0.146
	0.9	144			
	0.8	128			
	0.7	112			
CHXAE34200 CNXAE34200	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
CHXAE34250 CNXAE34250	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%

Long Time Settings

Current Rating = $I_r \times (I_n)$ Circuit Breaker Nominal Rating

$I_r = 0.7, 0.8, 0.9, 1$

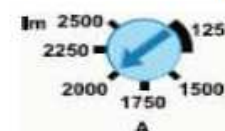


Short Time Settings

up to 160A $I_m = \text{fixed}$

Tripping Level = $I_m \times (I_n)$ Circuit Breaker Nominal Rating

200 & 250A $I_m = 5, 6, 7, 8, 9, 10 \times (I_n)$ Nominal rating



Long Time Settings

$I_r = 0.7, 0.8, 0.9, 1$

Short Time Settings

up to 160A $I_m = \text{fixed}$

200 & 250A $I_m = 5, 6, 7, 8, 9, 10 \times (I_n)$ Nominal rating

The value of Earth Loop Impedance (Z_s) 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.

$$\text{The earth fault loop impedance } Z_s \text{ (Ohms)} = \frac{\text{Rated Voltage to earth (Vac)}}{\text{Device operating Current (A)}}$$