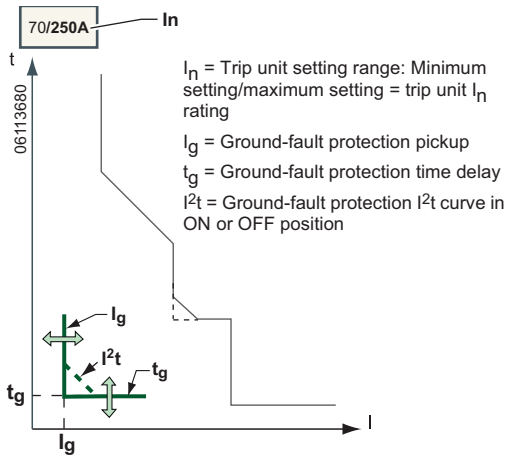
ENGLISH

Ground-Fault Protection

Figure 11: Ground-Fault Protection Tripping Curve



Ground-fault protection on Micrologic 6 trip units protects all types of electrical distribution applications against ground-fault currents.

For more details on ground-fault currents, see the bulletin shipped with the circuit breaker

Ground-fault protection is definite time:

- It includes the possibility of an I^2t inverse time curve function
- Set as I_g pickup and as t_g trip time delay.

Setting the Ground-Fault Protection

Set the I_g pickup:

- Using the keypad on the Micrologic trip unit
- With the communication option, set using the RSU software

Set the t_g time delay:

- Using the keypad on the Micrologic trip unit
- With the communication option, set using the RSU software

The t_g time delay setting incorporates activation/deactivation of the I^2t option.

I_g Pickup Setting Values

The I_g pickup setting value is in multiples of I_n.

The default I_g pickup setting value is the same as the minimum value read on the dial:

- 0.30 I_n for trip units rated 60 A
- 0.20 I_n for trip units rated > 60 A

Table 18 specifies the setting ranges. The increment is 0.05 I_n.

Table 18: I_g Pickup Setting Values

I_n =	I_g Pickup Setting Values (x I_n)*																		
60 A	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.75	0.8	0.85	0.9	0.95	1				
100–600 A	0.2	2.5	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.75	0.8	0.85	0.9	0.95	1		

*The accuracy range is +/- 10%.

t_g Time Delay Setting Values

The t_g time delay setting value is in seconds. The hold and breaking times are in milliseconds.

The default t_g time delay setting value is 0 s with I^2t OFF.

Table 19 shows t_g setting values with the I^2t OFF/ON option and the associated hold and breaking times.