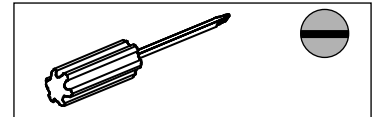


Operating Instructions / Operación de Instalación

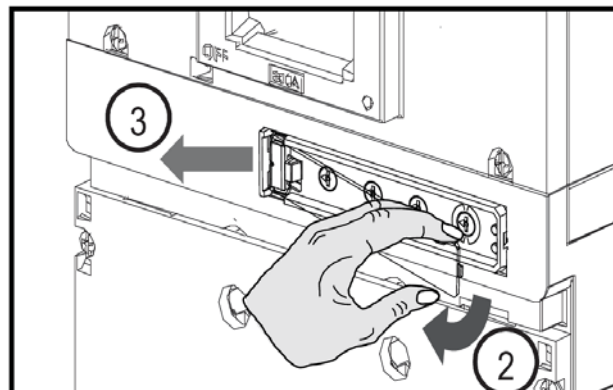
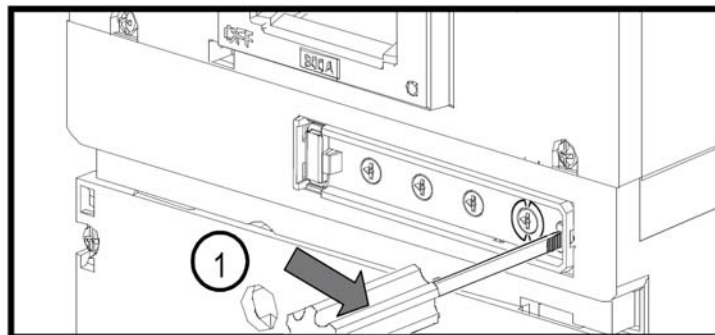
 <b>Danger</b>	 <b>Peligro</b>	 <b>Danger</b>
<b>Hazardous Voltage.</b> Will cause death or serious injury.	<b>Tensión peligrosa.</b> Puede causar la muerte o lesiones graves.	<b>Tension dangereuse.</b> Danger de mort ou risque de blessures graves.
 Turn off and lock out all power supplying this device before working on this device. Replace all covers before power supplying this device is turned on.	Desenergice totalmente antes de instalar o darle servicio. Reemplace todas las barreras y cubiertas antes de energizar el interruptor.	Couper l'alimentation de l'appareil et barrer avant de travailler. Remplacez tous les couverts avant que l'alimentation de pouvoir soit alimenté.

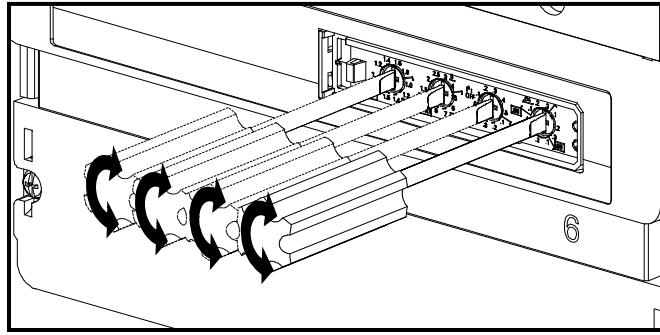
Use only with Siemens certified Components.  
Utilizar únicamente con componentes certificados de Siemens.  
A utiliser uniquement avec les composants certifiés Siemens.



NOTE - These instructions do not purport to cover all details or variations in equipment, or to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise, which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the local Siemens sales office. The contents of this instruction manual shall not become part of or modify any prior or existing agreement, commitment or relationship. The sales contract contains the entire obligation of Siemens. The warranty contained in the contract between the parties is the sole warranty of Siemens. Any statements contained herein do not create new warranties or modify the existing warranty.

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## To change settings on a Model 555 Electronic Trip Unit

Time-current curves represent the tripping characteristics of a circuit breaker. Often referred to as “trip curves”, they are used for design, selection, and coordination of electrical distribution systems. Time-current curves, similar to the one shown in Figure 1, are used to show how fast a breaker will trip at various currents.

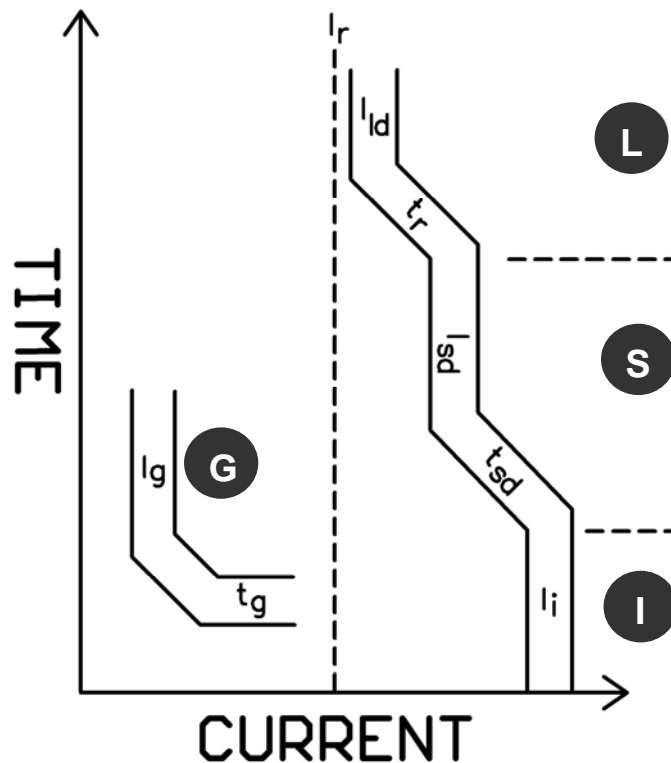


Figure 1

- L
**Long-time Function.** The top part of the curve, which represents the overload trip function of the circuit breaker. Long-time Pickup Setting ( $I_{ld}$ ) equals 105% -130% of the Current Setting ( $I_p$ ).
- S
**Short-time Function.** The short-time pickup function is adjustable with electronic trip-units only. It determines the amount of current the breaker will carry for a short period of time before tripping, allowing downstream devices to clear short-circuits without tripping the upstream device. Typically, this will be in the realm of 1.5 to 10 times rated current.
- I
**Instantaneous.** The bottom part of the curve, this represents the region in which the circuit breaker will trip without any intentional delay.
- G
**Ground Fault Protection.** A trip function that responds to current traveling outside the intended path.

The 5th digit of the catalog number signifies the trip unit configuration type:

e.g., Cat. No. NJG3R400L

- R = LI
- T = LSI
- W = LIG
- V = LSIG

Parameter		Setting Knob		Description
L	$I_r$	<u>LI &amp; LIG</u> $I_r$ (A) 	<u>LSI &amp; LSIG</u> $I_r$ (A) 	Current Setting
	$t_r$	<u>LI &amp; LIG</u> $t_r$ (s) 	<u>LSI &amp; LSIG</u> $I_r$ (A) 	Long Time Delay $I^2t$ function based on $6 \times I_r$
S	$I_{sd}$	<u>LSI</u> $I_{sd}(xI_r)$ 	<u>LSIG</u> $I_{sd}(xI_r)$ 	Short Time Pickup
	$t_{sd}$ ( $I^2t$ ON)	$t_{sd}$ (s) 		Short Time Delay $I^2t$ function based on $8 \times I_r$
	$t_{sd}$ ( $I^2t$ OFF)	$t_{sd}$ (s) 		Short Time Delay (fixed time delay)
I	$I_i$	<u>LI, LSI &amp; LIG</u> $I_i$ (kA) 	<u>LSIG</u> $I_{sd}(xI_r)$ 	Instantaneous Pickup setting

Parameter		Setting Knob	Brief Description
<b>G</b>	$I_g$		Ground Fault Pickup
	$t_g$		Ground Fault Delay $I^2t$ function based on $2 \times I_g$

