

## CONSTRUCTION DETAILS:

Marking - Device is marked on adhesive-backed label, designated: Listee's name, file number, or trademarks, Type number and electrical ratings.

"60/75°C, Cu wire only", or equivalent.

"Terminal Torque \_\_ in.-lbs (see Ratings)", or equivalent.  
Torque marking may be provided loose with the equipment.

"Suitable For Use On A Circuit Capable Delivering Not More Than rms Symmetrical Amperes, Volts Maximum. When Protected by Class Fuses.", or equivalent.

The following Trademarks may be used:



## Alternate Trademark



File E206826  
Project 99NK39677

February 29, 2000

REPORT

on

AUXILIARY DEVICES

LG Industrial Systems Co., Ltd.  
Chung Cheong Bug -Do, Korea

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## DESCRIPTION

## PRODUCT COVERED:

USL, CNL - Industrial Control Equipment - Auxiliary Devices. Thermal overload relay models GT followed by H or K, followed by -100, -150, -220, -400 or -600.

## RATINGS:

\*Ambient compensated, single or three phase, adjustable, Class 10 thermal overload relays. Tripping currents are 125 percent of the dial settings.

Auxiliary Contacts: C600

Short Circuit: Devices are suitable for use on a circuit delivering not more than 600 V, 10 kA for GTK(H) - 100, -150, -220 models, 600 V, 18 kA on GTK(H)-400 model and 600V, 30 kA on GTK(H) model as shown below.

Overload Relay Model	Voltage (V ac)	Short Circuit Current	Protective Device	
			Fuse/CB	Class
GTK(H)-100	600	10 kA	125A TD	RK5
GTK(H)-150	600	10 kA	250A TD	RK5
GTK(H)-220	600	10 kA	400A TD	RK5
GTK(H)-400	600	18 kA	800A CB	Siemens
GTK(H)-600	600	30 kA	1200A CB	Siemens

Devices have the following adjustable current ranges:

Setting	GTK(H)-100 Current Range(A)	GTK(H)-150 Current Range(A)	GTK(H)-220 Current Range(A)	GTK(H)-400 Current Range(A)	GTK(H)-600 Current Range(A)
1	34 - 50	34 - 50	*65 -100	85 - 125	200 - 300
2	39 - 57	39 - 57	85 - 125	100 -160	260 - 400
3	43 - 65	43 - 65	100 - 160	120 - 180	400 - 600
4	54 - 80	54 - 80	120 -180	160 -240	520 - 800
5	65 - 100	65 - 100	160 -240	200 -300	N/A
6	85 - 125	85 - 125	N/A	260 -400	N/A
7	N/A	100 - 150	N/A	N/A	N/A

## ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVES USE):

USL    Complies with UL 508

CNL    Complies with CSA C22.2 No. 14-M91

General - These devices are single or three phase, ambient compensated, Class 20 thermal overload relays. Models GTH(K)-220, -400 and -600 use current transformers in combination with a previously Recognized overload relay. GTK models also employ phase loss protection.

Nomenclature - Devices are classified in the following manner:

$\frac{GT}{I}$      $\frac{H}{II}$     -     $\frac{100}{III}$

I - Basic model designation: GT

II - Function

H - Overload protection, single or three phase

K - Three phase overload and phase loss protection

## CONSTRUCTION DETAILS:

General - Reference may be made to the accompanying illustration (No. 1) and itemized description pages for the essential details of construction.

Corrosion Protection - All parts of these devices are constructed of corrosion resistive material or are suitably plated or painted as protection against corrosion.

Tolerance - Unless specified otherwise, the indicated dimensions are nominal.

Spacings - Spacings were evaluated per Table 36.1 of UL 508, the Standard for Industrial Control Equipment, Seventeenth Edition.

Marking - Ink-Stamped adhesive backed labels secured to or printed on the devices designated with the Listee's name or file number, model number, voltage rating in volts (AC or DC), the number of phases, and if necessary, the frequency. The device may be marked appropriately for the intended use in amperes, volt-amperes or watts, horsepower, or any combination thereof.

Field wiring - Terminals must be marked for tightening torques, wire ranges, conductor material, and insulation temperature rating.

Factory of Field Installed Kits - The following kits may be factory or field installed on devices covered by this Report. The installation instructions must be provided with the kits or with the controllers.