NGV99AS

UNDERVOLTAGE RELAY WITH A DROPOUT RANGE BETWEEN 15 AND 25 VOLTS.

INTRODUCTION

These instructions plus those included with book GEI-98305 form the instructions for the NGV99AS.

DESCRIPTION

The 12NGV99AS is similar to the 12NGV18A DC Undervoltage relay described in GEI-98305 with the following exceptions:

1. The relay has 2 normally open and two normally closed electrically separate contacts.

2. The internal connections are shown in figure 1 of this supplement. The relay has an additional zener diode (ZD2) in parallel with the operating coil used to limit the maximum coil voltage an allow an increased continuous rating.

3. The voltage ratings, calibrating ranges and dropout to pickup voltage ratios for model 12NGV99AS are given in the table below.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>VOLTS DC CONT.</th>
<th>VOLTS DC 30 SEC.</th>
<th>RANGE OF DROPOUT ADJUSTMENT</th>
<th>RATIO OF DROPOUT TO PICKUP VOLTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NGV99AS</td>
<td>100</td>
<td>200</td>
<td>15 - 25 VOLTS</td>
<td>90% MIN</td>
</tr>
</tbody>
</table>

These instructions do not purport to cover all details or variations in equipment nor 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 General Electric Company. To the extent required the products described herein meet applicable ANSI, IEEE and NEMA standards; but no such assurance is given with respect to local codes and ordinances because they vary greatly.
**FIG 1 (0358A1440-1) INTERNAL CONNECTIONS DIAGRAM FOR NGV99AS RELAY**