



## INSTRUCTIONS

---

DFP1\*C\*\*\*\*\*08

### DFP100 WITH DECREASED SETTING ON PHASE OVERCURRENT UNITS

#### Introduction

These instructions, GEK-106161 together with GEK-105545, constitute the complete instructions for the DFP1\*C\*\*\*\*\*08.

#### Description

This relay has the following differences from the standard relay described in GEK-105545:

The ranges of the TOC PHASE and NEGATIVE SEQUENCE have been changed to 0.5 - 6.00 amps rms, the ranges for DEFINITE TIME PHASE and NEGATIVE SEQUENCE have been changed to 0.5 – 80.00 amps rms, and the ranges for INSTANTANEOUS PHASE have been changed to 0.5 - 80.00 amps rms.

*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.*

**Calculations of Settings**

1. In the **Calculation of Settings** section of the GEK-105545 Instruction Book, replace the following items with the corresponding items in Table 3-1:

**Table 3-1. DFP100 Relay Settings**

CATEGORY	SETTING NAME	RANGE	INCREMENT	DEFAULT
TIME OVER- { SET }	DISABLE PHASE TOC CURVE PHASE TOC	1 (YES)/0 (NO) 1 (EXT INV) 2 (VERY INV.) 3 (INVERSE)		YES 3 (INVERSE)
	PICKUP PHASE TOC	0.5 - 6.00	0.01 amps	1.00
	TIME DIAL PHASE TOC	0.5 -10.0	0.1	10.0
	DISABLE GROUND TOC CURVE GROUND TOC	1 (YES)/ 0(NO) 1 (EXT INV) 2 (VERY INV.) 3 (INVERSE)		YES 3 (INVERSE)
	PICKUP GROUND TOC	0.2 -2.40	0.01 amps	1.00
	TIME DIAL GROUND TOC	0.5 -10.0	0.1	10.0
DEFINITE TIME { SET }	DISABLE PHASE DT HIGH	1(YES)/0(NO)		YES
	PICKUP PHASE DT HIGH	0.50 - 80.00	0.01 amps	1.00
	DELAY PHASE DT HIGH	0 - 100.00	0.01 seconds	0
	DISABLE PHASE DT LOW	1(YES)/0(NO)		YES
	PICKUP PHASE DT LOW	0.50 - 80.00	0.01 amps	1.00
	DELAY PHASE DT LOW	0 - 100.00	0.01 seconds	0
	DISABLE GROUND DT HIGH	1(YES)/0(NO)		YES
	PICKUP GROUND DT HIGH	0.20 - 32.00	0.01 amps	1.00
	DELAY GROUND DT HIGH	0 - 100.00	0.01 seconds	0
	DISABLE GROUND DT LOW	1(YES)/0(NO)		YES
PICKUP GROUND DT LOW	0.20 - 32.00	0.01 amps	1.00	
	DELAY GROUND DT LOW	0 - 100.00	0.01 seconds	0
INSTANTANEOUS { SET }	DISABLE PHASE INST. HIGH	1 (YES)/0 (NO)		YES
	PICKUP PHASE INST. HIGH	0.50 - 80.00	0.01 amps	1.00
	DELAY PHASE INST. HIGH	0 - 2.00	0.01 seconds	0
	DISABLE PHASE INST. LOW	1 (YES)/0 (NO)		YES
	PICKUP PHASE INST. LOW	0.50 - 80.00	0.01 amps	1.00
	DELAY PHASE INST. LOW	0 - 2.00	0.01 seconds	0
	DISABLE GROUND INST. HIGH	1 (YES)/0 (NO)		YES
	PICKUP GROUND INST. HIGH	0.20 - 32.00	0.01 amps	1.00
	DELAY GROUND INST. HIGH	0 - 2.00	0.01 seconds	0
	DISABLE GROUND INST. LOW	1 (YES) / 0 (NO)		YES
PICKUP GROUND INST. LOW	0.20 - 32.00	0.01 amps	1.00	
	DELAY GROUND INST. LOW	0 - 2.00	0.01 seconds	0
NEGATIVE SEQUENCE { SET }	DISABLE NEG. SEQ. DT	1(YES)/0(NO)		YES
	(*) PICKUP NEG. SEQ. DT	0.50 - 80.00	0.01 amps	1.00
	DELAY NEG. SEQ. DT	0 - 100.00	0.01 seconds	0
	DISABLE NEG. SEQ. TOC CURVE NEG. SEQ. TOC	1(YES)/0(NO) 1 (EXT INV) 2 (VERY INV.) 3 (INVERSE)		YES 3 (INVERSE)
	(*) PICKUP NEQ. SEQ. TOC	0.50 - 6.00	0.01 amps	1.00
	NEG. SEQ. TOC TIME DIAL	0.5 - 10.0	0.1	10.0

2. Replace the following paragraphs in the **Time Overcurrent Settings** section.

**Pickup Phase TOC** - This setting establishes the pickup level of the phase TOC function. The range is 0.50 - 6.00 amps RMS.

3. Replace the following paragraphs in the **Definite Overcurrent Settings** section.

**Pickup Phase DT HIGH** - This setting establishes the pickup level of the phase DT High function. The range is 0.50 - 80.00 amps RMS.

**Pickup Phase DT LOW** - This setting establishes the pickup level of the phase DT Low function. The range is 0.50 - 80.00 amps RMS.

4. Replace the following paragraphs in the **Instantaneous Overcurrent Settings** section.

**Pickup Phase Inst. HIGH** - This setting establishes the pickup level of the phase Inst. High function. The range is 0.50 - 80.00 amps RMS.

**Pickup Phase Inst. LOW** - This setting establishes the pickup level of the phase Inst. Low function. The range is 0.50 - 80.00 amps RMS.

5. Replace the following paragraphs in the **Negative Sequence Overcurrent Settings** section.

**Pickup Neg. Seq. TOC** - This setting establishes the pickup level of the Neg. Seq. TOC function. The range is 0.50 - 6.00 amps RMS.

**Pickup Neg. Seq. DT** - This setting establishes the pickup level of the Neg. Seq. DT function. The range is 0.50 - 80.00 amps RMS.



---

***GE Power Management***

215 Anderson Avenue  
Markham, Ontario  
L3R 1B3 Canada  
Telephone (905) 294-6222  
[www.GEindustrial.com/pm](http://www.GEindustrial.com/pm)