



CERTIFIED DESIGN TEST REPORT
G&W 38 kV/25 kA, 900A TI FAULT INTERRUPTER

This certification pertains to G&W fault interrupters applied in gas insulated switchgear. It is certified that the fault interrupter has met or exceeded the design tests listed below at the levels stated. These design tests have been conducted in accordance to ANSI C37.60 – 2003 and C37.74 - 2003. It is also certified that the data and information is taken from actual tests.

DESIGN TESTS

1. Interrupting Current Tests According to C37.60

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|--|-----------------------|
| A. 16 operations (6 CO and 10 O) at full interrupting level | 25,000 Ampere @ 38 kV |
| B. 56 operations (19 CO and 37 O) at half interrupting level | 12,500 Ampere @ 38 kV |
| C. 44 operations (15 CO and 29 O) at 20% interrupting level | 5,000 Ampere @ 38 kV |

2. Sequence Tests According to C37.74

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|---|---------------------------|
| A. 10 operations at full load switching | 900 Ampere @ 38 kV |
| B. 30 operations at half load switching | 450 Ampere @ 38 kV |
| C. 10 operations at 10% load switching | 90 Ampere @ 38 kV |
| D. 10 operations for loop switching | 900 Ampere @ 38 kV |
| E. 20 operations for cable charging switching | 40 Ampere @ 38 kV |
| F. 50 mechanical operations | |
| G. Peak current withstanding test | 25 kA, 65 kA peak |
| H. Fault making current test | 25 kA, 65 kA peak @ 38 kV |
| I. Dielectric withstanding test | 1 minute @ 50 kV |
| J. Thermal runaway test | 900 Ampere |
| K. 200 mechanical operations | |

3. Short Time Current Tests

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|--------------------|----------|
| A. One Second Test | 25kA SYM |
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4. Dielectric Tests

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|---------------------------|------------------------------|
| A. Impulse Withstand Test | 150kV (1.2 x 50 microsecond) |
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5. Continuous Current Test

900 Ampere

6. Mechanical Operation Test

2000 Operations

G&W ELECTRIC COMPANY

Written by:

Donald R. Martin
Vice President Technology