



SOLID STATE TRIP UNIT TEST DATA

Customer: **EATON POWER QUALITY**
P.O. Number: **532870**

T.U. Type: **G.E. RMS-9 PROGRAMMER**
Style No. **TS20LSGM** S/N: **EBJ002547**

LONG DELAY PICKUP TEST

Test Conditions: **Fixed @ 100% of Current Setting**

Setting	Range	Test
AØ - 1.0C = .20	.18 - .22	.197 AMPS
BØ - 1.0C = .20	.18 - .22	.200 AMPS
CØ - 1.0C = .20	.18 - .22	.198 AMPS

Notes: **N/A**

LONG DELAY TIME TEST

Test Conditions: **1.0 X .2 AMPS X 600% = 1.2 AMPS**

Setting	Range	Test
1	2.4 - 4.0	2.83 SECONDS
2	4.9 - 8.2	5.56 SECONDS
3	9.8 - 16	11.15 SECONDS
4	20 - 33	23.21 SECONDS
1 @ 500%	3.6 - 5.8	4.11 SECONDS
1 @ 300%	9.8 - 16	12.05 SECONDS
1 @ 200%	20 - 35	25.81 SECONDS

SHORT DELAY PICKUP TEST

Test Conditions: **@ C.S. setting 1.0X C = .20 AMPS**

Setting	Range	Test
2C = .40	.36 - .44	.40 AMPS
3C = .60	.54 - .66	.62 AMPS
4C = .80	.72 - .88	.82 AMPS
5C = 1.0	.90 - 1.10	1.01 AMPS
7C = 1.4	1.26 - 1.54	1.38 AMPS
9C = 1.8	1.62 - 1.98	1.77 AMPS

SHORT DELAY TIME TEST

Test Conditions: **2 X C X 300% = 1.2 AMPS**

Setting	Range	Test
MIN.	.10 - .19	.13 SECONDS
INT.	.21 - .34	.26 SECONDS
MAX.	.35 - .50	.40 SECONDS
I _t @ 600%	.38 - .65	.46 SECONDS
I _t @ 500%	.55 - .92	.68 SECONDS
I _t @ 300%	1.50 - 2.50	1.96 SECONDS

INSTANTANEOUS TEST

Test Conditions: **X = .20 AMPS**

Setting	Range	Test
2X = .40	.36 - .44	N/A AMPS
3X = .60	.54 - .66	N/A AMPS
5X = 1.0	.90 - 1.10	N/A AMPS

Setting	Range	Test
7X = 1.4	1.3 - 1.5	N/A AMPS
9X = 1.8	1.6 - 2.0	N/A AMPS
10X = 2.0	1.8 - 2.2	N/A AMPS

GROUND FAULT PICKUP TEST

Test Conditions: **S = .20 AMPS**

Setting	Range	Test
.3S = .06	.054 - .066	.060 AMPS
.4S = .08	.072 - .088	.080 AMPS
.5S = .10	.090 - .110	.100 AMPS
.6S = .12	.108 - .132	.119 AMPS

GROUND FAULT TIME TEST

Test Conditions: **.5 X .2 AMPS X 600% = .6 AMPS**

Setting	Range	Test
MIN.	.10 - .19	.13 SECONDS
INT.	.22 - .34	.26 SECONDS
MAX.	.35 - .50	.40 SECONDS
I _t @ 200%	.38 - .70	.45 SECONDS
I _t @ 150%	.72 - 1.30	.78 SECONDS

Targets OK **N/A** All Phases OK **OK** Current Settings O.K. **OK**

NOTES: ALL TEST PERFORMED USING MULTI-AMPS' EPOCH I SYSTEM IN CONJUNCTION WITH
THE G.E. TVRMS2 DIGITAL TEST KIT.

Defects
Corrected

REPAIRED FOR DEFECTIVE GROUND FAULT & CLEANED/TESTED. EPIC LEVEL ONE OK.

ALL RESULTS FINAL AS PER TEST REPORT; ALL FUNCTIONS OK.

DATE: **08/09/2006** JOB NUMBER: **L-3695** TEST ENGINEER: **DAMIAN HOBSON**