



CIRCUIT BREAKER CALIBRATION DATA

ECI
7-7B
A1-11



TITLE

3101A 2541K067
CONT ON SH SH

CALIBRATION DATA

UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE

SURFACES	2 PL DEC	3 PL DEC	ANGLES
✓	±	±	± DEG

FIRST MADE FOR T-1 & T-12 CIRCUIT BREAKERS

REVISIONS

BREAKER KVA		ULTI-MATE RISE	TYPE	CALIBRATION	BIMETAL RESIST OHMS/CM FT = G	TRIP TEMP = °C			
120/240	240/480					LIGHT NORMAL	EMERGENCY	BREAKER NORMAL	EMERGENCY
5	10	1	T1	2540K126	500	120	135	145	160
7.5	15	1	T1	2540K127	250	120	135	145	160
10	-	1	T1	2540K128	150	125	140	150	165
15	-	1	T1	2540K129	70	128	143	153	168
-	25	1	T1	2540K134	150	140	155	165	180
-	37.5	1	T1	2540K135	50	135	150	160	175
25	50	1	T1/T12	2540K075	30	135	150	160	175
37.5	75	2	T12	2540K130	30	135	150	160	175
50	100	2	T12	2540K131	20	135	150	160	175

CHG 5 KVA FRM - TO 10 (240/480 COLUMN)
CHG 10 KVA FRM 5 TO - (240/480 COLUMN)
CHG 15 KVA FRM 7.5 TO - (240/480 COLUMN)

RECALIBRATION
TO NEW TRIP TEMPERATURE

$$I_{NEW} = I_{OLD} \sqrt[1.692]{\frac{T_2 - T_0}{T_1 - T_0}}$$

I_{NEW} = NEW CALIB CURRENT
 I_{OLD} = OLD CALIB CURRENT
 T₂ = NEW TRIP TEMP C°
 T₁ = OLD TRIP TEMP C°
 T₀ = OIL TEMP C°

ULTIMATE RISE CALC

$$\textcircled{1} TU = 28 \left(\frac{6}{30}\right)^{.845} \left(\frac{1}{200}\right)^{1.692}$$

$$\textcircled{2} TU = 8.73 \left(\frac{6}{20}\right)^{.845} \left(\frac{1}{200}\right)^{1.692}$$

STULPIN
18-OCT-99

3

traced to acad
K. Carroll
16-Dec-96

STULPIN
28-JAN-99

1

2

ERMCO-V

NOTES:
1. FOR OUTLINE DRAWING OF CIRCUIT BREAKERS SEE B2551J102.

PRINTS
TO

MADE BY: G. Davis 07-June-88

APPROVALS

HICKORY
ERMCO

3101A 2541K067
CONT ON SH SH

ISSUED BY: S. STULPIN 28-JAN-99