

ENGINEERING INFORMATION

No. E.I. 138

Sheets 1

Sheet No. 1

THIS INFORMATION DOES NOT OVERRIDE QC INSTRUCTIONS

REVISIONS

SUBJECT: Resistance chart using a DC ohmmeter/EC Trip Unit Information

- 1) All breaker readings are from line to load studs, bypassing primary fingers.
- 2) On fusible devices, take reading from line to load studs before fuses.
- 3) If the reading is higher than the value on the following charts, clean the contact surfaces and/or overcurrent coil terminals. Check all connections in the current path for loose hardware.
- 4) No one pole shall be more than 18 milli-ohms from another pole in the same breaker.

RESISTANCE OF AKR TYPE BREAKERS (MILLI-OHMS) MAX

Breaker Type Solid State Trip Units And
Non-Automatic Breakers

AKR30	.068	milli-ohms
AKR30H	.068	"
AKR50	.035	"
AKR50H	.035	"
AKRT50	.035	"
AKRT50H	.035	"
AKRU30	.068	"
AKRU50	.035	"
AKS50	.040	"
AKS50H	.040	"
AKST50	.042	"
AKSU50	.040	"
AKR75	.022	"
AKR100	.018	"

RESISTANCE OF EC OVERCURRENT COILS (MILLI-OHMS)

Coil Rating	Turns	R-Resistance (Max)
70	18	1.700
90	14	0.995
100-125	12	0.850
150-175	8	0.386
200-225	6	0.159
250-275	5	0.114
300-350	4	0.075
400-500	3	0.042
600	2	0.0165
800	2	0.0101
1000-1200-1600	1	0.002

NOTE: MAX RESISTANCE OF AKR BREAKERS WITH EC TRIP DEVICES.
ADD BREAKER RESISTANCES TO EC COIL RESISTANCES.

Note: (1) Indicates Revision

T-460

11-10-81

PRINTS TO

136

A9

622

MADE BY

Robert J. [Signature]

APPROVALS

[Signature]

CPDPD

BY OR

DEPT.

PLAINVILLE, CT.

LOCATION