253-TYPE RELAYS

REQUIREMENTS

(CONDENSED SECTION FOR 040-250-701)

1. REQUIREMENTS (Also See Section 020-012-711)

1.01 *Stabilized operate voltage and temperature* — with covers in place.

1.02 *Operate Values — 253A and 253B* — Figs. 1-4.

1.03 *Operate Values — 253C and 253D* — Circuit requirements tables.

1.04 *Armature travel, contact separation and contact spring pressure.*

	OPERATED ARMATURE TRAVEL	OPERATED CONTACT SEPARATION	RELEASED CONTACT SPRING PRESSURE
(a) *253A and B*			
→ Min.	Approx. 1/32"	.005"	10 grams
Max.	" "	.012"	15 grams
Gauge	Eye	74D or 66D	70H
(b) *253D except with 8 cells and 253C*			
→ Min.	.028"	.010"	3 grams
→ Max.	.032"	.012"	5 grams
Gauge	92J or 66D	92A & 92B or 74D	70F
(c) *253D with 8 cells*			
Min.	.015"	See	4 grams
Max.	.017"	Note	6 grams
Gauge	92D & 92E	92A & 92B	70F

Note: The armature in closing shall leave the backstop and travel 0.010"-0.012" before touching the contact spring and opening the contacts.

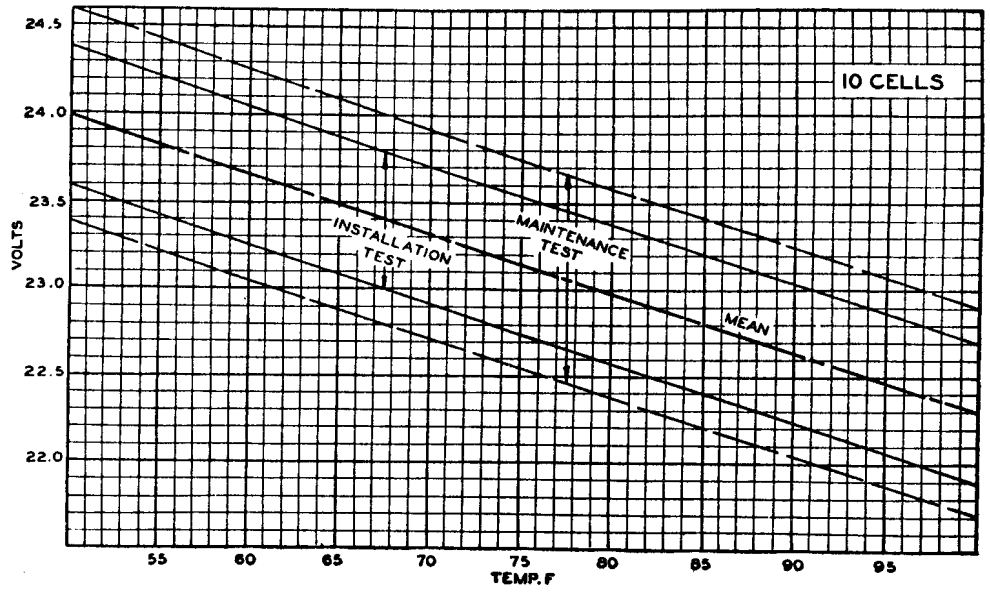

Fig. 1 – 253A Relay Operate Limits (Without Rheostat)

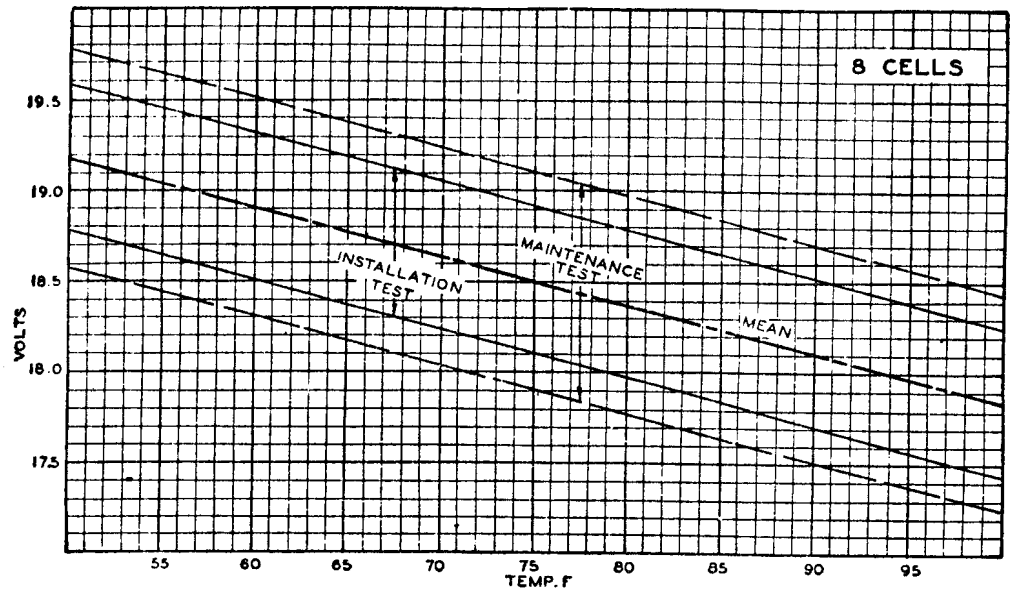

Fig. 2 – 253B Relay Operate Limits (Without Rheostat)

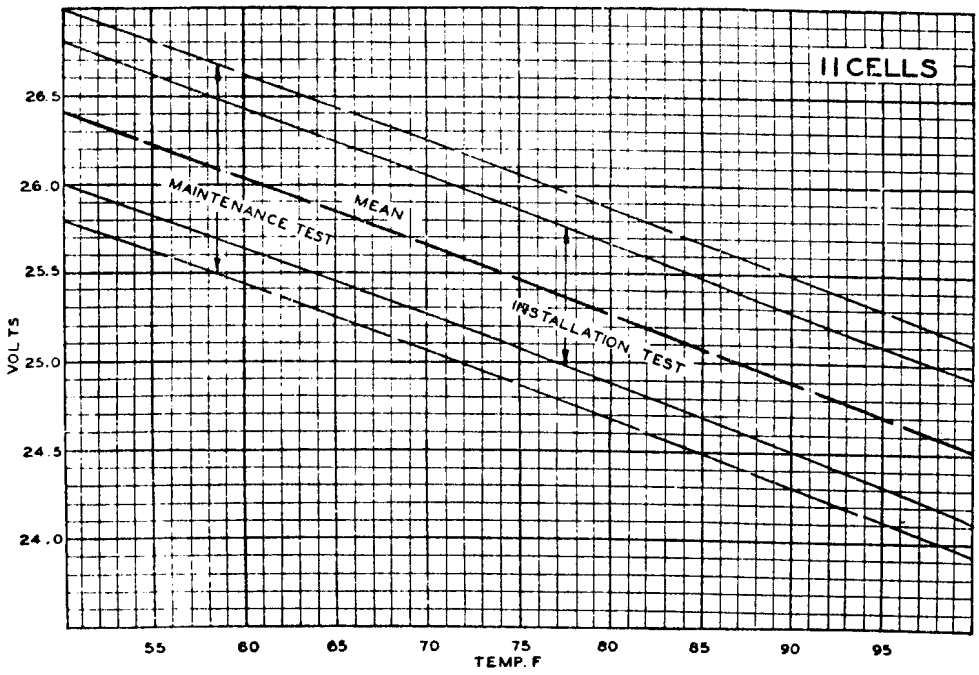

Fig. 3 – 253A Relay Operate Limits (Without Rheostat)

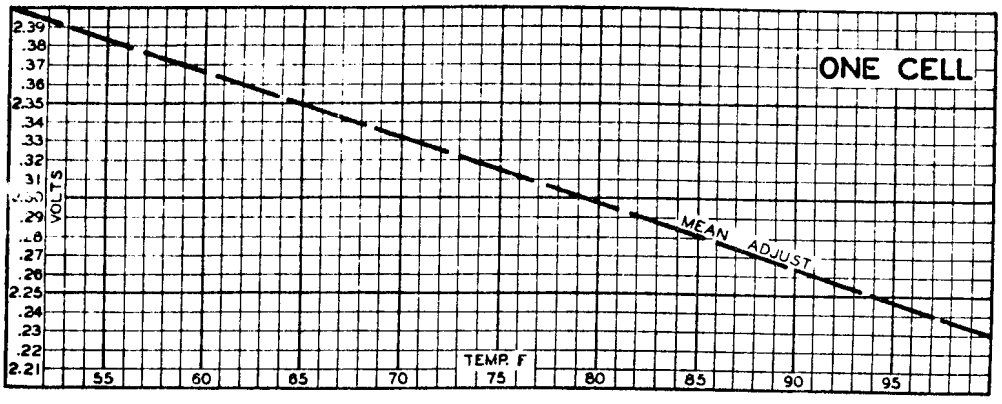

Fig. 4 – 253A and 253B Relays in Series with Rheostat — Operate Limits per Cell Basis for Charge Rates of 10 to 35 Per Cent of 8-hour Discharge Rate of Battery.