



KD-4 / KD-41 versus KD-10 / KD-11

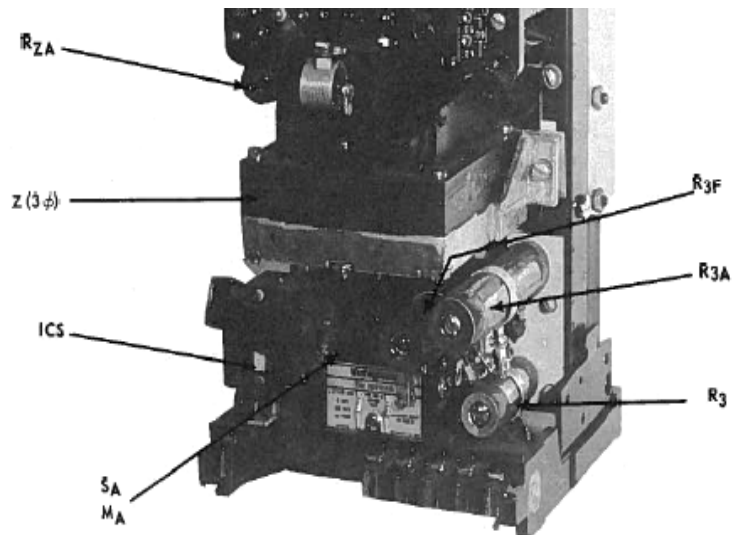
This report is to clarify the basic difference between the obsolete KD-4 / KD-41 electromechanical relay and the present design KD-10 / KD-11 Compensator Distance Relays. The KD-4 / KD-41 relays were superseded by the KD-10 / KD-11 relays in 1975 as a product enhancement. The KD-4 / KD-41 relays were initially designed to handle the middle range (0.75-20 ohms) impedance reach. The present design KD-10 / KD-11 relays offered 3 distinct ranges of the impedance reach and this expansion of the range was the most significant change. The KD-10 / KD-11 relays were also designed to seamlessly fit into the same case with the same terminals and perform virtually the same function. The other improvement was the incorporation of fine adjustment potentiometers P2C, P3C, P2A, and P3 which are connected in series with the course adjustment resistors. Since the pots were labeled and mounted in the front of the relay, this has made calibration and maintenance a great deal easier for the relay technician or engineer.

Relay – Ohms	Taps						
0.2-4.5	0.23	0.307	0.383	0.537	0.890	0.920	1.23
0.75-21.2	0.87	1.16	1.45	2.03	2.9	4.06	5.8
1.27-36.6	1.5	2.0	2.5	3.51	5.0	7.02	10.0

KD-10 / KD-11 Reach



P2C, P3A, P2A and, P3 added for ease of calibration and maintenance



Obsolete KD-4 design



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Contact ABB Customer Support at 954-752-6700 or 954-825-0619 if you have any additional questions in respect to this report.