

Equivalent T-Networks for Equipment

46, 62, 75, 91, 93 TYPE REPEATING COILS

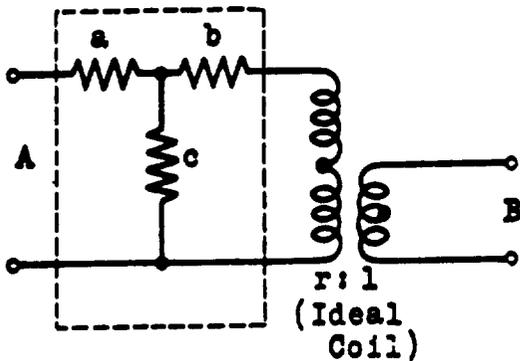
Type and Size	Imp. Admittance	Side to which Network is Referred	Resistance in Ohms	200 Cycles	400 Cycles	600 Cycles	800 Cycles	1000 Cycles	1200 Cycles	1400 Cycles	1600 Cycles	1800 Cycles	2000 Cycles
91A, 46	111	High or Low	0.70	11,000 11,000 11,000	22,000 22,000 22,000	33,000 33,000 33,000	44,000 44,000 44,000	55,000 55,000 55,000	66,000 66,000 66,000	77,000 77,000 77,000	88,000 88,000 88,000	99,000 99,000 99,000	110,000 110,000 110,000
91B, 75	111	High or Low	0.70	11,000 11,000 11,000	22,000 22,000 22,000	33,000 33,000 33,000	44,000 44,000 44,000	55,000 55,000 55,000	66,000 66,000 66,000	77,000 77,000 77,000	88,000 88,000 88,000	99,000 99,000 99,000	110,000 110,000 110,000
91C, 91	111.66	High	0.70	11,000 11,000 11,000	22,000 22,000 22,000	33,000 33,000 33,000	44,000 44,000 44,000	55,000 55,000 55,000	66,000 66,000 66,000	77,000 77,000 77,000	88,000 88,000 88,000	99,000 99,000 99,000	110,000 110,000 110,000
91D, 91	1.0811	Low	0.70	11,000 11,000 11,000	22,000 22,000 22,000	33,000 33,000 33,000	44,000 44,000 44,000	55,000 55,000 55,000	66,000 66,000 66,000	77,000 77,000 77,000	88,000 88,000 88,000	99,000 99,000 99,000	110,000 110,000 110,000
91E, 91	1.1626	High	0.70	11,000 11,000 11,000	22,000 22,000 22,000	33,000 33,000 33,000	44,000 44,000 44,000	55,000 55,000 55,000	66,000 66,000 66,000	77,000 77,000 77,000	88,000 88,000 88,000	99,000 99,000 99,000	110,000 110,000 110,000
91F, 91	2.0611	Low	0.70	11,000 11,000 11,000	22,000 22,000 22,000	33,000 33,000 33,000	44,000 44,000 44,000	55,000 55,000 55,000	66,000 66,000 66,000	77,000 77,000 77,000	88,000 88,000 88,000	99,000 99,000 99,000	110,000 110,000 110,000
91G, 91	1.0811	Low	0.70	11,000 11,000 11,000	22,000 22,000 22,000	33,000 33,000 33,000	44,000 44,000 44,000	55,000 55,000 55,000	66,000 66,000 66,000	77,000 77,000 77,000	88,000 88,000 88,000	99,000 99,000 99,000	110,000 110,000 110,000
91H, 91	2.0611	Low	0.70	11,000 11,000 11,000	22,000 22,000 22,000	33,000 33,000 33,000	44,000 44,000 44,000	55,000 55,000 55,000	66,000 66,000 66,000	77,000 77,000 77,000	88,000 88,000 88,000	99,000 99,000 99,000	110,000 110,000 110,000
91I, 91	1.0811	Low	0.70	11,000 11,000 11,000	22,000 22,000 22,000	33,000 33,000 33,000	44,000 44,000 44,000	55,000 55,000 55,000	66,000 66,000 66,000	77,000 77,000 77,000	88,000 88,000 88,000	99,000 99,000 99,000	110,000 110,000 110,000
91J, 91	2.0611	Low	0.70	11,000 11,000 11,000	22,000 22,000 22,000	33,000 33,000 33,000	44,000 44,000 44,000	55,000 55,000 55,000	66,000 66,000 66,000	77,000 77,000 77,000	88,000 88,000 88,000	99,000 99,000 99,000	110,000 110,000 110,000
91K, 91	1.0811	Low	0.70	11,000 11,000 11,000	22,000 22,000 22,000	33,000 33,000 33,000	44,000 44,000 44,000	55,000 55,000 55,000	66,000 66,000 66,000	77,000 77,000 77,000	88,000 88,000 88,000	99,000 99,000 99,000	110,000 110,000 110,000
91L, 91	2.0611	Low	0.70	11,000 11,000 11,000	22,000 22,000 22,000	33,000 33,000 33,000	44,000 44,000 44,000	55,000 55,000 55,000	66,000 66,000 66,000	77,000 77,000 77,000	88,000 88,000 88,000	99,000 99,000 99,000	110,000 110,000 110,000
91M, 91	1.0811	Low	0.70	11,000 11,000 11,000	22,000 22,000 22,000	33,000 33,000 33,000	44,000 44,000 44,000	55,000 55,000 55,000	66,000 66,000 66,000	77,000 77,000 77,000	88,000 88,000 88,000	99,000 99,000 99,000	110,000 110,000 110,000
91N, 91	2.0611	Low	0.70	11,000 11,000 11,000	22,000 22,000 22,000	33,000 33,000 33,000	44,000 44,000 44,000	55,000 55,000 55,000	66,000 66,000 66,000	77,000 77,000 77,000	88,000 88,000 88,000	99,000 99,000 99,000	110,000 110,000 110,000
91O, 91	1.0811	Low	0.70	11,000 11,000 11,000	22,000 22,000 22,000	33,000 33,000 33,000	44,000 44,000 44,000	55,000 55,000 55,000	66,000 66,000 66,000	77,000 77,000 77,000	88,000 88,000 88,000	99,000 99,000 99,000	110,000 110,000 110,000
91P, 91	2.0611	Low	0.70	11,000 11,000 11,000	22,000 22,000 22,000	33,000 33,000 33,000	44,000 44,000 44,000	55,000 55,000 55,000	66,000 66,000 66,000	77,000 77,000 77,000	88,000 88,000 88,000	99,000 99,000 99,000	110,000 110,000 110,000
91Q, 91	1.0811	Low	0.70	11,000 11,000 11,000	22,000 22,000 22,000	33,000 33,000 33,000	44,000 44,000 44,000	55,000 55,000 55,000	66,000 66,000 66,000	77,000 77,000 77,000	88,000 88,000 88,000	99,000 99,000 99,000	110,000 110,000 110,000
91R, 91	2.0611	Low	0.70	11,000 11,000 11,000	22,000 22,000 22,000	33,000 33,000 33,000	44,000 44,000 44,000	55,000 55,000 55,000	66,000 66,000 66,000	77,000 77,000 77,000	88,000 88,000 88,000	99,000 99,000 99,000	110,000 110,000 110,000

Notes: These T-Networks are used in conjunction with an ideal repeating coil having the same impedance as the actual repeating coil. The method of using the networks and of taking account of any impedances connected at the sub-points of coil windings is shown on drawing 314-230-100.

The network coil values are based on nominal values of 2 coils across the dry station. The resistance of the network is subject to a 1% manufacturing variation. The inductance in the network is subject to a 1% manufacturing variation. The network is subject to a 1% manufacturing variation.

Method of Using 1:1 T-Networks of Repeating Coils
For Impedance Computations

Networks Referred to High Impedance Side



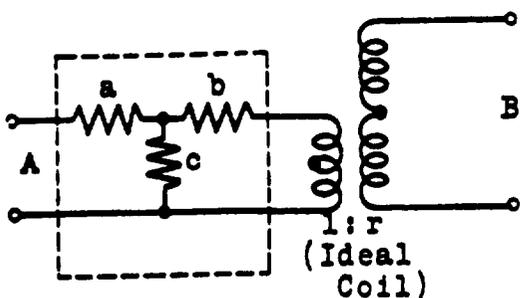
For Impedance at A: Multiply the impedance connected at B by r (the impedance ratio of the coil involved, greater than 1) and combine the resultant with the T-Network.

For Impedance at B: Combine the impedance connected at A with the T-Network and divide the resultant by r .

Note: The T-Network assumes nothing to be connected at the mid-point of the repeating coil windings. If an impedance z is connected at the mid-point of the:

1. High impedance winding, add z (vectorially) in series with arm a.
2. Low impedance winding, add z (vectorially) in series with the impedance connected at B or with that computed at B.

Networks Referred to Low Impedance Side



For Impedance at A: Divide the impedance connected at B by r (the impedance ratio of the coil involved, greater than 1) and combine the resultant with the T-Network.

For Impedance at B: Combine the impedance connected at A with the T-Network and multiply the resultant by r .

Note: The T-Network assumes nothing to be connected at the mid-point of the repeating coil windings. If an impedance z is connected at the mid-point of the:

1. High impedance winding, add z (vectorially) in series with the impedance connected at B, or with that computed at B.
2. Low impedance winding, add z (vectorially) in series with arm a.