HUBBELL
a nudyne company

TECH TIPS

JULY 2023

How to check the resistance of a Contactor Coil

TOOLS NEEDED

- Digital Multimeter

PROCEDURE

STEP 1 Turn off power.

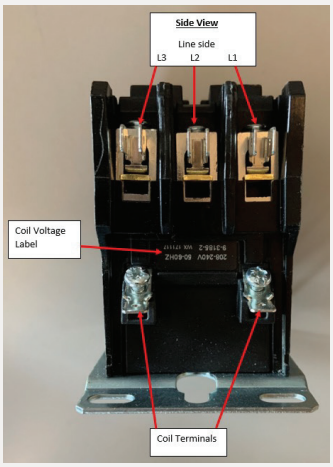
STEP 2 Remove wire(s) from one of the contactor coil terminals to isolate it so other circuitry will not affect the reading.

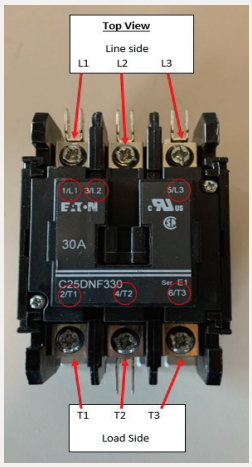
STEP 3 Set the Multimeter to Ohms (Ω).

STEP 4 Measure across the two coil terminals which are located under the line side terminals to get the resistance reading (see picture top of right column).

STEP 5 Compare the resistance reading to the chart on the right. The resistance should be +/-5% of the value in the chart below. If it is out of range the contactor should be replaced.

Note: If your Contactor Coil is shorted and there is a transformer being used to step down voltage, the transformer may need to be replaced also.





COIL RESISTANCE CHART

CONTACTOR MODEL #	COIL RESISTANCE Ω
C25DNF315A	126.1
C25DNF315B	483
C25DNF315C	2093
C25DNF330A	129
C25DNF330B	479.9
C25DNF330C	2116
C25DNF340A	125.7
C25DNF340B	474.2
C25DNF340C	2120
C25DNF350A	80.7
C25DNF350B	297.6
C25DNF350C	1294
C25FNF350A	22.8
C25FNF360A	23
C25FNF360B	88.8
C25FNF360C	350.4
C25FNF375B	88.4
C25FNF375A	25
C25DNJ350T	4
C25DNJ330T	4.3

NOTE: The letter at the end of the P/N designates the coil voltage

A =120V

B = 208/240V

C = 480V

D = 600V

H = 277V

L = 380V

T = 24V