STANDARDS UPDATE NOTICE (SUN)
ISSUED: August 7, 2025

STANDARD INFORMATION

Standard: UL 810
Standard ID: Capacitors [UL 810:2019 Ed.6+R:27Feb2025]
Previous Standard ID: Capacitors [UL 810:2019 Ed.6+R:22Aug2023]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **February 27, 2028**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

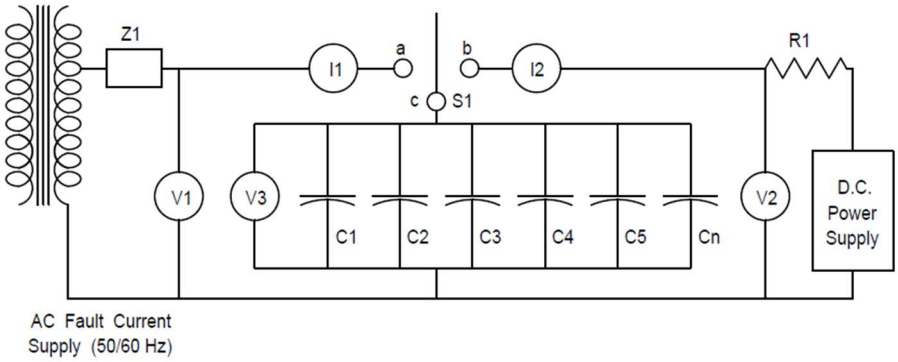
This standard contains Functional Safety requirements.

Overview of Changes: Revision to 50 Hz testing. Specific details of new/revised requirements are found in table below.

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.

STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		Additions to existing requirements are <u>underlined</u> and deletions are shown ~~lined out~~ below.
12	Info	**Fault-Current Test**
		Cycling test circuit for testing segmented metallized electrode type capacitors



<u>50Hz testing to be performed at a test voltage equal to 120% of Rated Voltage.</u>
<u>(Vtest = 1.20 x Vrated)</u>

Figure 12.1

Current and voltage monitoring points:
V1 – open circuit voltage
I1 – AC test current
V2 – DC breakdown voltage
I2 – DC breakdown current
V3 – Capacitor voltage

Components for the circuit:
An AC supply capable of providing the required short circuit current or AFC and the required open circuit voltage or test voltage.
A small DC power supply capable of obtaining the desired breakdown voltage.
Z1 – The impedance added to the circuit impedance to achieve the desired fault current at the test voltage.
R1 – A resistor sized to limit the peak DC current to 1% of the normal peak current for the capacitors under test.
S1 – A switch where the "a" contact is capable of switching the AC fault current and the "b" contact is capable of switching the DC breakdown current.
C1 through Cn – The capacitors under test.