

Subject 2730 (1008A)

March 25, 2011

SUMMARY OF TOPICS

The following requirements for the Standard for Medium-Voltage Transfer Switches, UL 2730, are being recirculated:

1. Proposed First Edition Standard for Medium-Voltage Transfer Switches, UL 1008A. Note that the subject number "UL 2730" will be used to identify CSDS proposals for UL 1008A until the first edition of the Standard is published.

COMMENTS DUE: APRIL 25, 2011

For your convenience in review, proposed additions to the previously proposed requirements dated July 2, 2010 are shown underlined and proposed deletions are shown ~~lined-out~~.

1. Proposed First Edition Standard for Medium-Voltage Transfer Switches, UL 1008A. Note that the subject number "UL 2730" will be used to identify CSDS proposals for UL 1008A until the first edition of the Standard is published.

RATIONALE

Responses to comments have been posted within the 2730 Proposal Review Work Area dated 2010-07-02.

PROPOSAL

5.19 OPERATING DUTY CLASS – The minimum number of operations a transfer switch can be expected to perform over the life of the equipment. The three operating duty classes are:

- a) Class A – 2000 operations.
- b) Class B – 1000 operations. and
- c) Class C – 400 operations.

9.4 External handle(s) handles and a push-button(s), if provided, shall be located in accordance with the following:

- a) Control and transfer switch handles and a push-button shall be located in a readily accessible location at an elevation above the equipment mounting surface not in excess of 78 inches (1.98 m).
- b) Operating handles requiring more than 50 lbf (222 N) to operate shall not be located higher than 66 inches (1.67 m) in either the open or closed position.

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- c) Operating handles for infrequently operated devices, such as isolating means reset devices, drawout fuses, or fused transformer primary disconnects need not comply with (a) and (b).

13.3.4 Electrical components may be mounted on hinged covers, drawout equipment, or doors, when conductors subject to flexing are not larger than 12 10 AWG (3.3 5.3 mm²), are stranded, and have at least 1/32 inch (0.8 mm) thick insulation or are part of a flexible cord assembly, see 13.3.5. These conductors shall be cabled, routed, secured and protected so that they will not be damaged during the opening and closing of the door or cover or during the movement of a drawout unit.

15.4 Equipment shall be provided with a ground bus that extends into each vertical section. This ground bus and any bonding jumpers provided shall have an ampacity equal to or greater than the ampacity of the equipment grounding conductor size corresponding to the ampere rating of the transfer switch as indicated in Table 15.1.

Note from the Project Manager: Only the affected portions of Table 19.1 are shown for brevity.

Table 19.1
Spacings

Group	Voltage rating, volts (rms or direct-current) ^{a,b}	Minimum clearance and creepage distance											
		To other than enclosure walls ^c								To walls of metal enclosure ^{d,e}			
		Clearance through				Creepage along <u>surface</u>				Clearance through-air or oil		Creepage along surface air or oil	
		Air		Oil		Air		Oil					
		Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)
Line Voltage Circuits	2500 max ^f	1.000	25.40	0.750	19.05	2.000	50.80	1.000	25.40	2.000	50.80	3.000	76.20
	Over 2500 ^f	2.000	50.80	1.500	38.10	3.500	88.90	2.000	50.80	3.000	76.20	4.000	101.60

36.2 The test voltage from Table 47.1, Column 2, is to be applied:

- a) Between live parts and the enclosure with the switch alternately closed to each supply source;
- b) Between terminals of opposite polarity with the switch in the normal supply position;
- c) Between terminals of opposite polarity with the switch in the alternate supply position;
- d) Between ~~uninsulated~~ live parts of different circuits; and
- e) Between terminals of normal source and alternate source with switch in both normal and alternate supply positions.

41.5 With the transfer switch contacts closed, the short time current is to be applied through a separate switching device, and the current maintained for the rated time. If the rated short time current cannot be maintained for the rated short time current duration, the test may be considered valid under the following conditions:

- a) The duration of the test may be extended, such that the actual test duration shall not exceed 125 percent of the rated short time current duration;

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