

OSM/EE DECISION SHEET

Category	Standard:	Clause	Document no.	
MEAS	EN 61010-1:2010 EN 61010-1:2010 + A1:2019	4.4.2.14 Voltage selectors	OSM-EE 24/5	
Subject	Key words	Meeting		
Voltage selectors		Helsinki 2024		
Question				
<p>In 61010-1 standard voltage selector that can be operated by operator is set to each possible setting with the equipment connected to each of its rated input voltages.</p> <p>The question arises when equipment has fuse(s) with different rating depending on the selected voltage and that is replaceable by operator.</p> <p>For example, T3.15H/250V with 230V setting and T6.3H/250V with 115V setting.</p> <p>How different fuses should be considered in testing?</p>				
Decision				
<p>The EUT is to be tested with the mains selector in the most unfavourable position(s), and with the most unfavourable fuse(s). This is considered as an abnormal operating condition</p>				
Explanatory notes				
Table 1				
Rated voltage 115/230V	Voltage setting 230V Fuse T3.15H/250V	Voltage setting 230V Fuse T6.3H/250V	Voltage setting 115V Fuse T6.3H/250V	Voltage setting 115V Fuse T3.15H/250V
Input voltage 230V	Normal	Abnormal Fuse doesn't match voltage setting	Abnormal Input voltage doesn't match voltage setting	Abnormal Input voltage and fuse doesn't match voltage setting
Input voltage 115V	Abnormal Input voltage doesn't match voltage setting	Abnormal Input voltage and fuse doesn't match voltage setting	Normal	Abnormal Fuse doesn't match voltage setting

