

**TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING**  
**IEC 60947-7-2:2009-04, Edition 3.0**  
**Low-voltage switchgear and controlgear – Part 7-2: Ancillary equipment –**  
**Protective conductor terminal blocks for copper conductors**

“R”	Required
“S”	May be subcontracted, see OD 2012
“SPTL”	Specialized Facility, see IECEE 02-2
“W”	Witness testing in the categories “MED” and “MEAS”
“3PPS”	Three Phase Power Supply required

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
5.1 to 5.2	Inspection of the marking	Not required	R
6	Normal service, mounting and transport conditions	Not required	R
7	Constructional and performance requirements	Not required	R
8.3	Verification of mechanical characteristics	A steel pin, rotation and pull device, weights	R
8.4.3	Dielectric test at power frequency voltage	Adjustable high voltage test equipment up to 3000 V, between 45 Hz and 65 Hz, output current at least 200 mA, overcurrent relay less than 100 mA	R
	Dielectric test with Impulse voltage	Impulse voltage generator (1,2/50 $\mu$ s) up to 15 kV, oscilloscope, high-voltage probe	R
8.4.4	Verification of the voltage drop	DC source up to 27 A, voltage measuring devices	R
8.4.5	Temperature rise	AC source up to 270 A, temperature measuring instruments and current measuring devices	R

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
8.4.6	Short-time withstand current	AC source up to 270 A for 1s, measuring devices for current and time	R
		Above 270A	S
8.4.7	Ageing test (for screwless-type terminal blocks only)	Heating cabinet, AC source up to 270 A, voltage and current measuring devices	R
8.5	Verification of thermal characteristics	Specified tests apparatus according to IEC 60695-11-5	S