

COLLECTION OF CIG-OSM/IN DECISIONS

Standard: EN 61058-1:1992	Sub clause: General	Sheet no. OSM/IN 112b Page 1(5)
Subject: Sample selection for test on homogeneous series of switches	Key words: Sample selection	Meeting no. 4 8 Item 6, 6.16 + 6.19 5.2 a)
Question: Sample selection for test on homogeneous series of switches for appliances according EN 61058-1. Need of common criteria for testing series of switches for appliances		
Decision: A sample selection table has been adopted. See following pages		
Explanatory notes: -		

SAMPLE SELECTION FOR TESTS ON HOMOGENEOUS SERIES OF SWITCHES FOR APPLIANCES ACCORDING TO EN 61058

§	CLAUSES	Pattern number 4 centre off		Pattern number 6		Pattern n. 2 2P	Pattern n. 1	Pattern n. 5
		1P 5)	2P 4)	1P	2P 4)			
			with	without				
8	Markings	Yes	Yes	Yes	Yes	Yes	Yes	Yes
9	Protection against electric shock	Yes	Yes	Yes				
10	Provision for earthing	Yes	Yes					
11	Terminals and terminations	Yes	Yes					
12	Construction	Yes	Yes	Yes				Yes
13	Mechanism	Yes	Yes	*	Yes	Yes		Yes
14	IP Protection	Yes	Yes	*				
15	Insulation resistance and dielectric strength	Yes	Yes	Yes	Yes	Yes		Yes
16	Heating 2)		Yes			Yes		Yes
17	Endurance 2)	Yes	Yes			Yes		Yes
18	Mechanical strength	Yes	Yes					
19	Screws, current carrying parts and connections	Yes	Yes					Yes
20	Clearance, creepage distance and distances through insulation	Yes	Yes	Yes	Yes	Yes		Yes
21	Resistance to heat, fire and tracking 3)	Yes	Yes	*				
22	Resistance to resting	Yes	Yes					

Standard: EN 61058-1:1992	Sub clause: General	Sheet no. OSM/IN 112b Page 3(5)
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HOMOGENEOUS SERIES OF SWITCHES FOR

APPLIANCES

An homogeneous series of switches shall have:

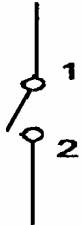
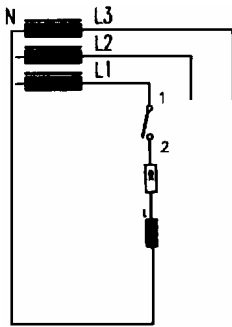
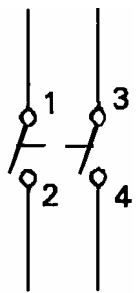
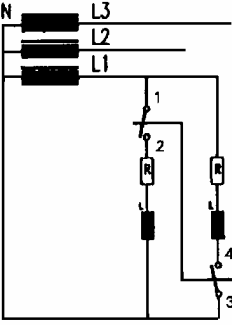
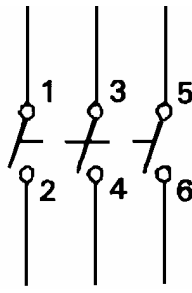
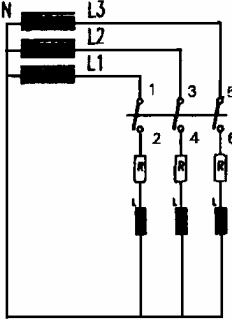
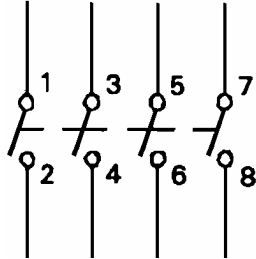
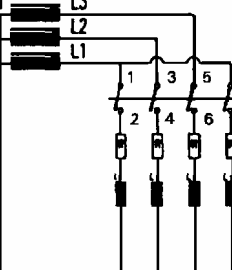
- same contacts
- same contact operating mechanism
- same basic body type.

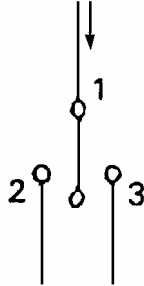
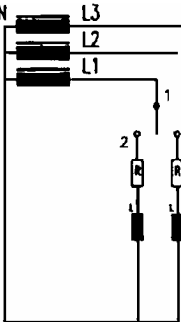
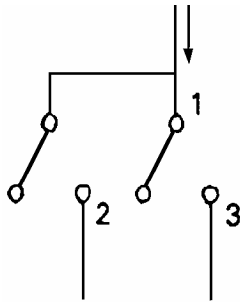
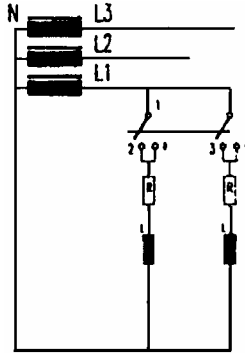
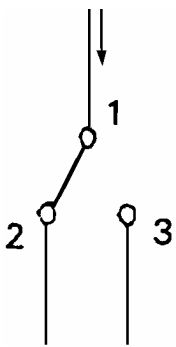
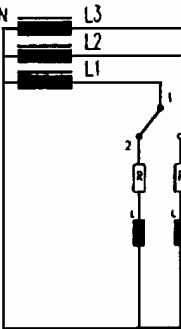
Notes:

- A) If the series have micro and normal gap the test of clauses 13, 15, 16, 17, 18 and 20 shall be carried out on both types.
- B) If the series have different operating means but with the same contact blocks the worst operating means would be tested.
- C) Different ratings: separate tests of clauses 16 and 17.
- D) Switches with momentary contact shall be tested separately according to clauses 16 and 17.
- E) NO/NC-contacts: separate tests according to clauses 16 and 17.
- F) Different operating forces (declared by the manufacturer): separate tests according to Clauses 16 and 17 for switches with minimum and maximum operating force.
- G) If a pattern number is not quoted on this Annex A (see pages 25 of 29 and 26 of 29) the test scheme shall be carried out according to the manufacturer instructions. In this case the test scheme shall be quoted on the Test Report.

Notes relevant to table on OSM/IN 120b/2:

- 1) Samples with all terminal types are to be tested according to Clause 11.
- 2) If the homogeneous series of switches contain switches with various types of terminals the heating test according to clause 16 is conducted on the smallest terminal size of each type. The endurance test according to clause 17 then carried out on the switches with terminal with the highest temperature rise.
- 3) The test of clause 21 shall be repeated if the material changing.
- 4) Pattern number 4:
1 cycle = O-I-O-II-O
Pattern number 6:
1 cycle = I-II-I
for example: switches with 10.000 operating
1 set (3 samples) should be testes with 10.000 operatings on the left side and 10.000 operatings on the right side of the contact.
- 5) If a particular type is not included in the range the heading is removed and the remaining heading moved to the left.

Pattern Number	Number of poles	Possible connection	Test Circuit
1	1		
2	2		
3	3		
-	4		

Pattern Number	Number of poles	Possible connection	Test Circuit
4	1		
5	1		
6	1		
6/2	2	