



सत्यमेव जयते

भारत सरकार

Government of India

0046

उपभोक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय, उपभोक्ता मामले विभाग
Ministry of Consumer Affairs, Food & Public Distribution, Department of Consumer Affairs

राष्ट्रीय परीक्षण शाला (पश्चिमी क्षेत्र)

NATIONAL TEST HOUSE (Western region)

प्लॉट सं. एफ-१०, एम.आई.डी.सी., मरोल, अंधेरी (पूर्व), मुंबई - 400 093
Plot No. F-10, M.I.D.C. Marol Andheri (E), Mumbai - 400 093

038653

TEST CERTIFICATE

INTERIM/FINAL REPORT

परीक्षण प्रमाण पत्र सं
Test Certificate No
NTH(WR)/EL(A)/2018/0058Aजारी होने की तिथि
Date of Issue
20/03/2018कोड नं
Code No
1518087828493पृष्ठ
Page
1पृष्ठों की संख्या
No of Pages
2जिसे जारी करना है
Issued To

BEEKAY INDUSTRIES

पता
AddressUNIT No50/408, MOTILAL NAGAR-1, ROAD NO.12,
GOREGAON(W), MUMBAI-400104ग्राहक का संदर्भ सं एवं दिनांक
Customer's Ref. No.

NIL

Date: 08/02/2018

पंजिका सं एवं दिनांक
Register No & Date

0058/NTH(WR)/EL(A)/09/02/2018

परीक्षण सामग्री का विवरण
Description of Test Itemflush type one way switch with cover & cover plate for
domestic & similar purposes, 10AX/240V, AC, pattern 1,
KUNDAN brand.परीक्षण सामग्री का पहचान
Identification of Test Itemflush type one way switch with cover & cover plate for
domestic & similar purposes, 10AX/240V, AC, pattern 1,
KUNDAN brand.नमूना का विशिष्टि (यदि ही)
Product Specification (If any)

IS: 3854-1997(Amendment 1 to 7),

नमूना प्राप्ति की तिथि
Date of Receipt of the Test Item

08/02/2018

कार्य सम्पादन की तिथि
Date(s) of Performance of Tests

From: 09/02/2018 To: 20/03/2018

व्यावहृत प्रणाली का पहचान
Method(s) used for Test

IS: 3854-1997(Amendment 1 to 7),

NA

नमूना प्रक्रिया जहाँ प्रासंगिक ही
Sampling Procedure where relevant

Tested By

Daleep G. Desai

Scientist-SB(Electrical)

Checked By

Rane Narendra Dodhu

Scientist-SC(Electrical)

Approved By

Rane Narendra Dodhu

Scientist-SC(Electrical)



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पृष्ठ
Page
2

पृष्ठों की संख्या
No of Pages
2

Sl. No.	Test Name	Test Result	Limit
1	type tests	as per annex	As per Annexure

टिप्पणी
Note : 1) Annexure (8 pages) forms a part of test certificate.
2) the average ambient condition inside the laboratory during the period of above test
Temperature deg C :29 Relative humidity,% :75

कैफियत
Remarks : The sample complies with the requirements of the specification No IS: 3854-1997(Amdt.1
-7), in respect of test carried out.

Tested By

Daldeep G. Desai

Scientist-SB(Electrical)

Checked By

Rane Narendra Dodhu

Scientist-SC(Electrical)

Approved By

Rane Narendra Dodhu

Scientist-SC(Electrical)



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Test Certificate No.
NTH(WR)/EL(A)/2018/0058ADate of Issue
20/03/2018Code No.
1518087828493No. of Pages
1 of 8

Annexure

10 nos. of flush type one way switch with cover & cover plate for domestic & similar purposes, 10AX/240V, AC, pattern 1, "KUNDAN" brand.

9 switches marked A, B, C...G, H & I and subjected to the following examinations, measurements and tests in accordance with IS: 3854-1997(Amendment 1 to 7), the result is noted below:

Tests			
Sr.	Description of tests	Requirements	Observation
a)	Rating (cl.6) Rated Current and Rated Voltage	Inspection of marking	A 10AX ; 240V
b)	Classification (cl.7) i. According to possible connection (cl.7.1.1) ii. According to contact opening (cl.7.1.2) iii. According to Protection against electric shock (cl.7.1.3) iv. According to harmful ingress of water (cl.7.1.4) v. According to method of activating switch (cl.7.1.5) vi. According to method of application (cl.7.1.6) vii. According to method of installation (cl.7.1.7) viii. According to type of terminal (cl.7.1.8)		Pattern No. 1 Normal gap Unenclosed Ordinary (IPX0) Rocker flush type Design B Screw type
c)	Marking Test (cl.8) i. Marking on switch (cl.8.1) Rated Current, Amperes Rated Voltage, Volts Symbol to indicate nature of supply Manufacturer's Identification mark Country of Manufacture Any other Marking ii. Inspection of placement of marking (cl.8.3) iii. Identification of terminal for connection of phase Conductor (cl.8.4) iv. Identification of terminal intended exclusively for Neutral Conductor (cl.8.5) iv. Direction of actuating movement for switch of Pattern 2/3/03 and having rated voltage exceeding 250V or rated current exceeding 16A (cl.8.6) v. Inspection of push button switch (cl.8.7) vi. Test for Durability & Legibility of marking (cl.8.9) vii. Standard Mark on switch (cl.8.10) viii. CML	Shall be identified by L/L1/L2 or ↑ Shall be identified by letter N Marking shall clearly indicate affect achieved by each position Shall be marked red only if it serves to open the circuit to be controlled & serves to control the auxiliary circuit Shall be legible & durable	10AMP 240V AC ONLY KUNDAN MADE IN INDIA I On switch base & plate N/A N/A N/A N/A Legible & durable
			IS: -- -----



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Test Certificate No.
NTH(WR)/EL(A)/2018/0058A

Date of Issue
27/03/2018

Code No.
1518087828493

No. of Pages
2 of 8

Annexure

Sr.	Description of tests	Requirements	Observation		
			A	B	C
d)	Protection against electric shock (cl.10)				
i.	Accessibility of live parts (cl.10.1)	Shall not be accessible			Live parts not accessible
ii.	Material of knob, operating lever, push button, rockers and the likes (Cl.10.2)	Shall be of insulating material			Made of insulating material
e)	Provision for Earthing (Cl.11)				No earthing terminal/contact provided
f)	Terminals (cl.12) (Tested after test of cl.15)				
i.	General (Cl.12.1)	Screw clamping or screwless			Provided with terminals having screw clamping (screw with head)
	Test for terminals with screw clamping for external copper conductor (cl.12.2)				
	Inspection/Test of terminals with screw clamping for external copper conductor (Clause 12.2.1)	Shall allow connection of copper conductor of cross section area 1.0-2.5mm ²			Allows connection of conductor of cross section area 1.0- 2.5 mm ²
ii.	Inspection of terminal (Clause 12.2.2)	Shall allow conductor to be connected without special preparation			No special preparation for connection
•	Minimum dimension (D) of conductor space (Ref.: Fig 4)	3.0 mm Minimum			4.1
iii.	Test for Adequacy of Mechanical Strength of Terminals with screw clamping (Clause 12.2.3)	Shall have adequate mechanical strength & shall not be of soft metal			Screw of adequate mechanical strength & not of soft material
iiii.	Test of terminal with screw clamping for resistance to corrosion (Clause 12.2.4)	Shall be resistant to corrosion			No sign of rust observed
v.	Test for design of terminal (Clause 12.2.5) (Note: Range nominal diameter of terminal, mm: 3.6 to 4.1 Applicable torque as per col 3 of table 5: 1.2Nm)	Solid conductor or any strands of conductor shall not come out or break at the terminal			No damage to conductor observed
vi.	Test for terminal with screw clamping for reliability of clamping of conductor (Clause 12.2.6)	Terminal shall be so designed that they clamp the conductor reliably and between metal surfaces			Conductor did not move noticeably in the terminal
vii.	Test for design of terminal with screw clamping for reliability of clamping of conductor (Clause 12.2.7)	Neither a rigid solid conductor nor wire of stranded conductor slip out while clamping screw are tightened			No conductor slipped out while clamping screw was tightened
viii.	Test for fixing and location of terminal with screw clamping against loosening from their fixing to switch (Clause 12.2.8)	Terminal shall not work loose from their fixing when clamping screws are fitted with 2.5mm ² and tightened/loosened 5 times with 1.2Nm			Terminal did not work loose and no damage to screw head slot/ thread etc. occurred.
viii.	Test for Adequacy of Mechanical Strength of earthing terminals with screw clamping (Clause 12.2.9)	Shall have adequate mechanical strength & shall not be of soft metal			N/A

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0046

Form No : NTH (WR)/MUM-5



038653

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Date of Issue
20/03/2018

Code No.
1518087828493

No. of Pages
3 of 8

Annexure

Sr.	Description of tests	Requirements	Observation		
			A	B	C
ix.	Test of earthing terminal with screw clamping for resistance to corrosion (Clause 12.2.10)	Shall be resistant to corrosion	N/A		
x.	Test for conductor space for pillar terminal only (cl.12.2.11)				
xi.	Minimum distance (g) between the clamping crew and the end of the conductor (Ref Fig 4)	2.0 mm Minimum	N/A		
xii.	Inspection of lug terminal for use with switch (cl.12.12)	Used with 40A/ 63A only	N/A		
xiii.	Test for screwless terminals (cl.12.13)		N/A		
g)	Constructional requirements (cl.13)				
i.	Inspection of insulating line barrier after mechanical strength test (cl.13.1)	Shall have adequate mechanical strength	N/A		
ii.	Clause 13.2: Switch shall permit Easy introduction and connection of conductor in the terminals Correct positioning of conductor		Satisfactory	Satisfactory	
iii.	Clause 13.3 Test for effectiveness of cover/cover plate, actuating member which provide protection against electric shock		Held effectively at two points by shoulder		
	Clause 13.3.1: Inspection of cover, cover plate and actuating members or part of then which intend to provide protection against electric shock	Shall be held in place at least 2 points by screw. Single fixing by screw shall be permitted if they are located by another means such as shoulder		Cover plate provided with provision for fixing by 4 screw	
	Clause 13.3.2: Inspection of cover, cover plate and actuating members or part of them whose fixing is not dependent on screw and removal is obtained by applying force in direction perpendicular to mounting surface	Cover, cover plate and /or actuating member shall come off	N/A		
	Clause 13.3.3: Inspection of cover, cover plate and actuating members or part of them whose fixing is not dependent on screw and removal is obtained by using tool as per manufacturer instruction	Covers, cover plate and actuating mechanism shall not come off when force $\leq 120N$ is applied for 1 min in direction perpendicular to mounting surface		Removal of actuating member, Locked by shoulders, requires tool for removal & gives access to live parts.	(Ref Test Sr. No. (p)(iv))
iv.	Clause 13.4: Inspection of for free opening in enclosure of ordinary switches when fixed and wired as in normal use with 1.0mm ²	Shall have no opening	Satisfactory		
v.	Clause 13.5 Inspection of knobs of rotary switch		N/A		
vi.	Clause 13.6: Inspection of screw or other means of mounting the switch	Shall be easily accessible from front & serve no purpose other than fixing	Satisfactory		

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Note : Please See Overleaf / सूचनार्थ : कृपया पृष्ठ के पीछे ध्यान दें ।

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Form No : NTH (WR)/MUM-5

उपभोक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय, उपभोक्ता मामले विभाग
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No. of Pages
4 of 8

Annexure

Sr.	Description of tests	Requirements	Observation		
			A	B	C
vii.	Inspection of combination of switches and switches with socket outlet with separate base (cl.13.7)	Shall ensure correct positioning of each base	N/A		
viii.	Test for accessory combined with switches (cl.13.8)		N/A		
ix.	Test for switches other than ordinary (cl.13.9)		N/A		
x.	Installation test using conductor of 1.5mm ² for switches be fixed in a box (cl.13.10)		N/A		
xi.	Inspection of surface type switches other than ordinary (cl.13.11)		N/A		
xii.	Inspection of inlet opening in surface type switches for introduction of conduit (cl.13.12)		N/A		
xiii.	Inspection of ordinary surface type switches for back entry from conduit (cl.13.13)		N/A		
xiv.	Inspection of switches provided with membranes or the like for inlet opening (cl.13.14)	Shall be replaceable	N/A		
xvii	Test for membranes in inlet opening (cl.13.15)		N/A		
h)	Mechanism (Cl.14)				
i.	Inspection of actuating mechanism (Clause 14.1)	Actuating mechanism shall automatically take position corresponding to moving contacts	Satisfactory		
ii.	Inspection of actuating mechanism (Clause 14.2)	Moving contacts shall rest in ON /OFF position	Satisfactory		
iii.	Inspection of actuating mechanism (pattern 2 only) (Clause 14.4)	Actuating mechanism shall make & break all poles simultaneously	N/A		
iv.	Inspection of actuating mechanism (pattern 2 only) (Clause 14.5) (if cover plate removable)	Actuating mechanism of shall be independent of the presence of cover/cover plate	N/A		
j)	Resistance to ageing, to harmful ingress of water and to humidity (cl.15)				
i.	Resistance to ageing (cl.15.1) (@ 70± 2 °C -7 days & 4 days @ 45%-55%RH)	Shall show no crack(s) or stickiness	No stickiness or cracks observed		
ii.	Resistance to humidity (cl.15.3) (@ 91%-95%RH for 2 days) Insulation resistance (cl.16.1) measured by applying 500VDC for 60s between	Shall show no damage	No damage observed		
	• all terminals (1 & 2) connected together and the body with the switch in "ON" position	5 MΩ Min.	More than 5 MΩ		
	• Terminal 1 connected and body connected to terminal (2) with switch in "OFF" position	2 MΩ Min	More than 5 MΩ		
	• Terminal 2 connected and body connected to terminal (1) with switch in "OFF" position	2 MΩ Min	More than 5 MΩ		
	Electric strength (cl.16.2) of insulation tested by applying 2kV/ 50Hz for 60s between				
	• all terminals (1 & 2) connected together and the body with the switch in "ON" position	No flashover/ break-down shall occur	Satisfactory		
	• each terminal in turn and other terminal connected to the body with switch in "ON" position	No flashover/ break-down shall occur	Satisfactory		
	• terminals which are electrically connected together when the switch is in "ON" position, the switch being in "OFF" position	No flashover/ break-down shall occur	Satisfactory		

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No. of Pages
5 of 8

Annexure

Sr.	Description of tests	Requirements	Observation		
			A	B	C
k)	Temperature rise test(cl.17) Temperature rise when 13.5A is passed for 1hr, °C	45°C Max.	12	11	12
m)	Making & Breaking capacity(cl.18)		Satisfactory		
i.	Poles connected in series (18.1) (200 operations at 30 op/min @ 264V & 12.5A with 2s ON and 2s OFF at pf:0.3 ± 0.05)	There shall be no sustained arcing	Satisfactory		
ii.	One pole at full load (cl.18.1) (Switch of pattern 2 only) (100 operations at 7.5op/min with both poles in series @ 264V & 10A at pf:0.3 ± 0.05)	There shall be no sustained arcing	N/A		
iii.	Test as per cl.18.2 (200 operations at 30op/min @ 240V with 2s ON and 2s OFF using 15 lamps of 200W)	There shall be no sustained arcing	Satisfactory		
n)	Normal operation (cl.19)		Satisfactory		
i.	Poles connected in series (cl.19.1) (40K operation @ 30op/min @240V & 10A; @p.f.0.6±0.05) with 1s ON & 3s OFF	Shall function correctly during the test	Satisfactory		
•	Electric strength test after above test (cl.16) Tested by applying 1500V/50Hz for 60s between				
•	all terminals (1 & 2) connected together and the body with the switch in "ON" position	No flashover/ break-down shall occur	No flashover/ break- down occurred		
•	each terminal in turn and other terminal connected to the body with switch in "ON" position	No flashover/ break-down shall occur	No flashover/ break- down occurred		
•	terminals which are electrically connected together when the switch is in "ON" position, the switch being in "OFF" position	No flashover/ break-down shall occur	No flashover/ break- down occurred		
•	Temperature rise test(cl.17) Temperature rise when 10A is passed for 1hr, °C	45°C Max.	18	20	20
•	Inspection of actuating mechanism (Clause 14.3) (10 operations steadily with actuating moved over 2s)	No undue arcing shall occur	Satisfactory		
ii.	One Pole at full load (cl.19.1) (Switch of pattern 2 only) (5000 operation @7.5op/min @240V & 32A; @p.f.0.6±0.05)	Shall function correctly	N/A		
•	Temperature rise test(cl.17) Temperature rise when 10A is passed for 1hr, °C	45°C Max.	N/A		
•	Inspection of actuating mechanism (Clause 14.3) (10 operations steadily with actuating moved over 2s)	No undue arcing shall occur	N/A		
iii.	Fluorescent Lamp Load Test (cl.19.2)				
•	Poles connected in series				
•	Load A- 10000 operation on each side @ 30 op/ min with 1ON and 3 OFF; @ cosΦ:0.9±0.05; V _n : 228V-252V & I _n :10A-10.5A	No sustained arcing or permanent welding of contact shall occur	Satisfactory		
•	Load B- 100 operation on each side 30 @ op/ min with 1s ON and 3s OFF; Test Voltage: 228V-252V & Test current: 10A-10.5A		Satisfactory		
•	Temperature rise test(cl.17) Temperature rise when 10A is passed for 1 hour, °C	45°C Max.	15	15	16

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No. of Pages
6 of 8

Annexure



Sr.	Description of tests	Requirements	Observation		
			D	E	F
iv.	One pole at full load (Switch of pattern 2 only)				
•	Load A- operation on each side @ op/ min with ON and OFF; @ $\cos\Phi:0.9\pm 0.05$; V_n ; & I_n ;	No sustained arcing or permanent welding of contact shall occur		N/A	
	Load B- operation on each side @ op/ min with ON and OFF; Test Voltage: & Test current:			N/A	
•	Temperature rise test(cl.17) Temperature rise when 10A is passed for 1 hour, °C	45°C Max.	-	N/A	-
			A	B	C
p)	Mechanical strength (cl.20)				
i.	Impact test (Cl.20.1)	Shall show no damage & impair its further use		Satisfactory	
	• Test for accessibility of live parts for switches provided with indicator lamp (cl.20.1)	Live parts shall not be accessible when tested with test finger		N/A	
ii.	Test for base of surface type switch (cl.20.2) (Switch fitted to cylinder (Dia. 200mm Min.) of rigid steel; fixing screw tightened with 1.2Nm torque and then switch is fitted similarly to flat steel sheet.)	Base shall show no damage impairing its further use		N/A	
iii.	Test for screwed glands (cl.20.3)			N/A	
iv.	Force necessary for covers, cover plate and actuating mechanism or part of them to come off or not come off (cl.20.4)	Covers, cover plate and actuating mechanism :			
	• Verification of non-removal of covers, cover plate and actuating mechanism when 40N force is applied for 1 minute in directions perpendicular to mounting surface (cl.20.4.1)	• Shall not come off		Actuating member did not come off	
	• Verification of removal of covers, cover plate and actuating mechanism when 120N force is applied for 1 minute in directions perpendicular to mounting surface (cl.20.4.2)	• Shall come off		Redundant	
v.	Verification of non-removal of covers, cover plate and actuating mechanism when removal may give access with standard test finger to non-earthed metal parts separated from live parts by creepage distance and clearance to as in test Sr. No (r) (cl.20.5)			N/A	
vi.	Verification of non-removal of covers, cover plate and actuating mechanism when removal may give access with standard test finger to insulating parts, earthed metal parts or metal parts separated from live parts by twice the value of creepage distance and clearance to as in test Sr. No (r) (cl.20.6)	Covers, cover plate and actuating mechanism shall not come off when 10N force is applied for 1 minute		N/A	
vii.	Test for operating member of cord operated switch (cl.20.9)			N/A	
q)	Resistance to heat (cl.21)				
i.	Test for legibility of marking (cl.21.1) (Sample kept @ $100\pm 2^\circ\text{C}$ for 1 hr.)	Marking shall remain legible		Marking legible	
ii.	Diameter of impression on part retaining current carrying part @ $125\pm 2^\circ\text{C}$, mm (cl.21.2)	2 Max		1.0	
iii.	Diameter of impression parts not retaining current carrying part @ $75\pm 2^\circ\text{C}$, mm (cl.21.3)	2 Max		0.5	

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उपभोक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय, उपभोक्ता मामले विभाग
Ministry of Consumer Affairs, Food & Public Distribution, Department of Consumer Affairs

राष्ट्रीय परीक्षण शाला (पश्चिमी क्षेत्र)

NATIONAL TEST HOUSE (Western region)

प्लॉट सं. एफ-१०, एम.ए.डी.सी. मार्ग, अंधेरी (पूर्व), मुंबई - 400 093

Plot No. F-10, M.I.D.C. Marol Andheri (E), Mumbai - 400 093



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TEST CERTIFICATE

Test Certificate No.
NTH(WR)/EL(A)/2018/0058A

Date of Issue
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Code No.
1518087828493

No. of Pages
7 of 8

Annexure

Sr.	Description of tests	Requirements	Observation		
			A	B	C
r)	Screws, current carrying parts & Connections (cl.22)				
i.	Test for breakage of screws or damage to heads of screw connection when screws and nuts are tightened and loosened 5 times for screws not in engagement with thread of insulating with torque 1.2Nm (clause 22.1)	No damage shall occur to screw and heads that may impair its further use			Satisfactory
ii.	Inspection of screws in engagement with the thread of insulating material which are operated during installation (cl.22.2)	Shall ensure correct introduction into hole/nut			N/A
iii.	Inspection of design of electrical connection for transmission of contact pressure through insulating material (cl.22.3)	Shall not be transmitted through material other than mica, ceramic etc			Conforms
iv.	Inspection of screws and nuts which serve electrical as well as mechanical connection (clause 22.4)	Shall be locked against loosening and rotation			Satisfactory
v.	Test for resistance to corrosion of material of current carrying parts (clause 22.5)	Shall be resistant to corrosion			Satisfactory
vi.	Inspection of metal contacts subjected to sliding action during normal use (cl.22.6)	Shall be resistant to corrosion			N/A
vii.	Inspection of screws used for the connection of current carrying parts (cl.22.7)	Thread forming screws shall not be used			Satisfactory
s)	Creepage distance & clearances (cl.23)				
i.	Creepage distance (with and without conductor)				
a.	live parts which are separated when the contacts are open	3			More than 3 mm
b.	live parts of different polarity	4			N/A
c.	live parts and				
i.	accessible surfaces of pans of insulating material	3			N/A
ii.	earthed metal parts, including the earthing circuit	3			N/A
iii.	metal frames supporting the base of flush-type switches	3			N/A
iv.	screws or devices for fixing bases, covers or cover-plates metal parts of the mechanism, if required to be insulated from live parts (see 10.4)	3			More than 3 mm
d.	metal parts of the mechanism, if required to be insulated from accessible metal parts{ 10.5), and				
i.	screws or devices for fixing bases, covers or cover-plates	3			N/A
ii.	metal frames supporting the base of flush-type switches	3			N/A
iii.	accessible metal parts				
e.	live parts and accessible unearthed metal parts, with the exception of screws and the like	6			N/A
ii.	Clearances(with and without conductor)				
a.	live parts which are separated when the contacts are open	3			More than 3mm
b.	live parts of different polarity	3			N/A
c.	Live parts and				
i.	Accessible surfaces of insulating material	3			N/A
ii.	Earthed metal parts, including the earthing circuit,	3			N/A
iii.	not mentioned under items 9 and 11	3			N/A
iv.	Metal frames supporting the base of flush-type switches	3			N/A
v.	Screws or devices for fixing bases, covers, or cover-plates	3			More than 3 mm

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Annexure

Sr.	Description of tests	Requirements	Observation		
			A	B	C
vi.	Metal parts of the mechanism, if required to be insulated from live parts (see 10.4)	3	N/A		
d.	live parts and				
i.	exclusively earthed metal boxes with the switch mounted in the most unfavourable position	3	N/A		
ii.	unearthed metal boxes, without insulating lining with the switch mounted in the most unfavourable position	4.5	N/A		
e.	metal parts of the mechanism, if required to be insulated from accessible metal parts (10.5), and				
i.	screws or devices for fixing bases, covers or cover-plates	3	N/A		
ii.	metal frames supporting the base of flush-type switches	3	N/A		
iii.	accessible metal parts when the base is fixed directly on the wall	3	N/A		
f.	live parts and the surface on which the base of a surface-type switch is mounted when the base is fixed directly on the wall	6	N/A		
g.	live parts and the bottom of the space, if any, for external conductors, for surface-type switches	3	N/A		
iii.	Distances through insulating sealing compound (with and without conductor)				
a.	Between live parts covered with at least 2 mm of sealing compound and toe surface on which the base of a surface type switch is mounted.	4	N/A		
b.	Between the parts covered with at least 2 mm of sealing compound and the bottom of the space, if any, for external conductors, for surface-type switches	2.5	N/A		
t)	Resistance of Insulating Material to Abnormal Heat, to Fire and to Tracking (cl.24)				G
i.	Glow Wire Test (cl.24.1)				
	<ul style="list-style-type: none"> Parts of insulating material necessary to retain current carrying parts (@ 850°C) Parts of insulating material not necessary to retain current carrying parts (@ 650°C) 	<ul style="list-style-type: none"> No visible flame/ sustained glowing Flame, if any, shall extinguish in 30s after glow wire is removed 	No visible flame or sustained glow	No visible flame or sustained glow	
u)	Resistance to Rusting (Cl.25)	<ul style="list-style-type: none"> Surface shall show no sign of rusting 	No sign of rust observed		G H I

Tested by :

Daleep G. Desai

Daleep G. Desai
Scientist-SB(Electrical)

Checked by

Rane Narendra Dodhu

Rane Narendra Dodhu.
Scientist-SC(Electrical)

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