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्रमाण पन्न सं. जारी हो rtificate No Date of	ने की वि Issue	ਜੋਬਿ कोडनं Code No 1525019512796	पृष्ठ Page	पृष्ठीं की संख्वा No of Pages
री करना है To	:	BEEKAY INDUSTRIES		2
is		UNIT No50/408, MOTILAL NA GOREGAON(W), MUMBAI-40	GAR-1, ROAD NO 0104	0.12,
का सन्दर्भ सं एवं दिनांक her's Ref. No.		NIL	Date:	23/08/2018
सं एवं दिनांक er No & Date	:	00358/NTH(WR)/EL(A)/27/08/2	2018	
' सामग्री का जिवरण ption of Test Item		flush-type one way momenta with cover plate for domestic 1, KUNDAN brand	ry contact switcl & similar purpo	nes of 10AX/240V ses, AC, pattern
सामग्री का पहचान ication of Test Item		10 nos. of flush-type one way 10AX/240V with cover plate fo AC, pattern 1, KUNDAN brand	v momentary con or domestic & sir d	tact switches of nilar purposes,
দা विशिष्टि (यदि हों) st Specification (f any)	:	IS: 3854-1997		
प्राप्ति की तिथि f Receipt of the Test tem		23/08/2018		
म्पादन की तिथि)of Performance of Tests	:	From: 27/08/2018	To: 01/10/2018	8
। प्रणाली का पहचान t(s)used for Test	:	in accordance with IS: 3854-1	997(Amendment	: 1 to 7)
ाकिया जहाँ प्रासंगिक हों ing Procedure where relevar	: nt	N/A		
Tested By		Checked By	Appre	wed By

uman Ayan Ayan Kumar

SA(Electrical)

Appro

Sim Daleep G. Desai Scientist- B (Electrical)

Rane Narendra Dodhu Scientist- C (Electrical)

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सत्य -परीशण Test Ce NTH(WR)/

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परीशण प्रमाण पत्र सं	जारी होने की ति	थि कोडनं	पृष्ठ	पृष्ठी की संख्या	
Test Certificate No NTH(WR)/EL(A)/2018/003588	Date of Issue 01/10/2018	Code No 1535019512796	Page 2	No of Pages 2	
SI. No.	Test Name	Test Result		Limit	
1	type tests	AS PER ANNEXURE (PAGE	S 1 - 8)	As per Annexure	
टिप्पणी Note :	1)Annexure(8 pages) 2)The average ambie Ter	forms a part of the test certi nt condition inside the labor mperature, deg.C :30 ; R	ficate. atory during Relative humi	the period of above tests dity %:68	
कैफियत					
Remarks :	The sample complies in respect of the test	s with the requirements of sts carried out.	the specifica	ation IS:3854-1997(Amdt 7	')

भारत सरकार Government of India

Tested By

Kumar an

Ayan Kumar SA(Electrical) Checked By

Daleep G. Desai Scientist- B (Electrical) Approved By

Form No : NTH (WR)/MUM-5

001249

Rane Narendra Dodhu Scientist- C (Electrical)



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

9 switches marked A, B, C...G, H and 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:

Sr.	Description of tests	Requirements	Observation
)	Rating (cl.6)		Δ
	Rated Current and Rated Voltage	Inspection of marking	10AX ; 240V
)	Classification (cl.7)		
	According to possible connection (cl.7.1.1)	1 1 1 1 1 1 1 1	Pattern No. 1
10	According to contact opening (cl.7.1.2)		Normal gap
	According to Protection against electric shock (cl.7.1.3)		Unenclosed
а,	According to harmful ingress of water (cl.7,1,4)		Ordinary (IPX0)
10	According to method of activating switch (cl.7.1.5)	이 가슴 옷을 바람이 없다.	Rocker
	According to method of application (cl.7.1.6)		flush type
i.	According to method of installation (cl.7,1,7)	1	Design A
ii.	According to type of terminal (cl.7,1,8)		Screw with head
	Marking Test (cl 8)		
	Marking on switch (cl 8 1)	1 2 2 1 8 2 3	and the second second
	Poted Current Ampered		104.2
	Rated Current, Amperes		2401
	Symbol to indicate network of symply		AC ONLY
	Symbol to indicate nature of supply		ACONLY~
	Manufacturer's Identification mark		KUNDAN
	Country of Manufacture		MADE IN INDIA
	Any other Marking		
	Inspection of placement of marking (cl.8.3)		On switch base & cover
			plate
	Identification of terminal for connection of phase Conductor	Shall be identified by	$ UP \rightarrow $
	(cl.8.4)	$L/L1/L2$ or \uparrow	
	Identification of terminal intended exclusively	Shall be identified	N/A
	for Neutral Conductor (cl.8.5)	by letter N	
	Direction of actuating movement for switch of Pattern 2/3/03 and	Marking shall clearly	N/A
	having rated voltage exceeding 250V or rated current exceeding	indicate affect achieved	Carlos and a second
	16A (cl.8.6)	by each position	
	Inspection of push button switch (cl.8.7)	Shall be marked red only	
		if it serves to open the	N/A
		circuit to be controlled &	1 . T . A
		serves to control the	1 M 1
		auxiliary circuit	1 1 1 1 1 1 1
	Test for Durability & Legibility of marking (cl.8.9)	Shall be legible & durable	marking Legible & durab
i.	Standard Mark on switch (cl.8.10)	IS:	
		CM/L:	
		1 1 1 1 1 1 1	1
			a start of the start
	승규는 전쟁에 걸려야 다니다. 친구가 모습했다.		
			1
	あんじん ひょうちん しんしん いいがい	and the state of the	1. 18 18 18 18 18
	비슷하는 것은 사람은 수상은 것이다.		- 1. C. C. C. C.
	A CARLER AND A CARLE	and the second	1 6 8 8 6 6 6
-			C C



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Sr.	Description of tests	Requirements	Observation
12			A B C
d) i. ii.	Protection against electric shock (cl.10) Accessibility of live parts (cl.10.1) Material of knob, operating lever, push button, rockers and the likes (Cl.10.2)	Shall not be accessible Shall be of insulating material	Live parts not accessible Made of insulating material
e)	Provision foe Earthing (Cl.11)		No earthing terminal/ contact provided
f) I.	Terminals (cl.12) (Tested after test of cl.15) General (Cl.12.1) Test for terminals with screw clamping for external copper conductor Inspection/Test of terminals with screw clamping for external copper conductor (Clause 12.2.1)	Screw clamping or screwless (cl.12.2) Shall allow connection of copper conductor of cross	Terminal with screw clamping (with head) Allows connection of conductor of cross section
	Inspection of terminal (Clause 12.2.2)	Shall allow conductor to be connected without special preparation	No special preparation for connection
e.	Test for Adequacy of Mechanical Strength of Terminals with screw clamping (Clause 12.2.3)	Shall have adequate mechanical strength &	Screw of adequate mechanical strength & not
in.	Test of terminal with screw clamping for resistance to corrosion (Clause 12.2.4)	shall not be of soft metal Shall be resistant to corrosion	No sign of rust observed
iv.	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, : 1.2 Nm	Solid conductor or any strands of conductor shall not come out or break at the terminal	No damage to conductor observed
v.	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
VI.	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
vii	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 1.2 Nm	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

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



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Government of India उपभोक्ता मामले रव नय, उपभोक्ता मामले विभाग Ministry of Consumer epartment of Consumer Affairs



 Test Certificate No.
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Sr.	Description of tests	Requirements	Observation
1997			<u>A B C</u>
ix.	Test of earthing terminal with screw clamping for resistance to corrosion (Clause 12.2.10) Test for conductor space for piller terminal only (cl. 12.2.11)	Shall be resistant to corrosion	N/A
x. xi.	Minimum distance (g) between the clamping crew and the the end of the conductor (Ref Fig 4)	2.0 mm Minimum	N/A
cii.	Inspection of lug terminal for use with switch (cl.12.12)	Shall be used with current rating 40A & 63A only	N/A
kiii.	Test for screwless terminals (cl.12.13)		N/A
g) i.	Constructional requirements (cl.13) Inspection of insulating line barrier after mechanical strength test (cl.13.1)	Shall have adequate mechanical strength	N/A
i.	Clause 13.2: Switch shall permit Easy introduction and connection of conductor in the terminals Correct positioning of conductor		Satisfactory Satisfactory
<i>.</i>	Clause 13.3 Test for effectiveness of cover/cover plate, actuating	1 - S.	Combined structure
	member which provide protection against electric shock 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	Actuating member held at one point by screw and shoulder at other points.
	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 for 1minute in direction perpendicular to mounting surface (Ref cl.20.4)	Cover, cover plate and /or actuating member shall not come off when 120N is applied for 1 min	Satisfactory
	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 (Removal of actuating member gives access to live parts, compliance by cl.20.4)	Covers, cover plate and actuating mechanism shall not come off when force not exceeding 120N is applied for 1 min in direction perpendicular to mounting surface	N/A
	Clause 13.4: Inspection of for free opening in enclosure of ordinary switches when fixed and wired as in normal use with 1.0 mm^2	Shall have no opening	Satisfactory
vii.	Clause 13.5 Inspection of knobs of rotary switch		N/A
viii.	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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उपभोक्ता मामले, रवाद Ministry of Consumer Anar बय, उपभोक्ता मामले विभाग Department of Consumer Affairs



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Sr.	Description of tests	Requirements	Observation
		and the second second	A B C
ix.	Inspection of combination of switches and switches with socket	Shall ensure correct	N/A
	outlet with separate base(cl.13.7)	positioning of each base	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
x.	Test for accessory combined with switches (cl.13.8)		N/A
xi.	Test for switches other than ordinary (cl.13.9)	1 1 1 1 1 2 3	N/A
xii.	Installation test using conductor ofmm ² for switches be fixed		N/A
12	in a box (cl.13.10)		and the second of the
xiii.	Inspection of surface type switches other than ordinary (cl.13.11)	1. 1. 1. 1. 1. 1.	N/A
xiv.	Inspection of inlet opening in surface type switches for	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
128	introduction of conduit (cl.13.12)		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
xv.	Inspection of ordinary surface type switches for back entry from	1	N/A
a. 1. 20. 9	conduit (cl.13.13)	and the second	
xvi.	Inspection of switches provided with membranes or the like for	Shall be replaceable	N/A
	inlet opening (cl.13.14)		1
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	Satisfactory
		shall automatically take	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
	요즘 가의 사람은 수, 일종 것은 것 것 것 것 같아.	position corresponding to	
	장님은 수 있는 것이 같이 많이 많이 많이 많이 없다.	moving contacts	
ii.	Inspection of actuating mechanism (Clause 14.2)	Moving contacts shall rest	Satisfactory
1. H.		in ON /OFF position	
iii.	Inspection of actuating mechanism (pattern 2 only) (Clause 14.4)	Actuating mechanism	N/A
6		shall make & break all	and the start of the start of the
e File	이나 아파 이 이 약 수 있는 것 것 같아. 이 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가	poles simultaneously	1. 1. 1. 1. 1. 1. 1. 1.
iv.	Inspection of actuating mechanism (pattern 2 only) (Clause 14.5)	Actuating mechanism of	N/A
1	(if cover plate removable)	shall be independent of the	the second second second second
1.00		presence of cover/cover plate	
j)	Resistance to ageing, to harmful ingress of water and to humidity	y (cl.15)	1
1.	Resistance to ageing (cl.15.1)	Shall show no crack(s)	No stickiness or
	(@ 70±2 °C -7 days & 4 days @ 45%-55%RH)	or stickiness	cracks observed
ii.	Resistance to humidity(cl.15.3)(@ 91%-95%RH for 2 days)	Shall show no damage	No damage observed
12. 8	Insulation resistance (cl.16.1) measured by	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	at the set of the set
1.1	applying 500VDC for 60s between		
	• all terminals (1 & 2) connected together and the body with the	$5 M\Omega$ Min.	More than 5 M Ω
1.1	switch in "ON" position		
	 Terminal 1 connected and body connected to terminal (2) 	2 MΩ Min	More than 5 M Ω
1.20	with switch in "OFF" position		
14	• Terminal 2 connected and body connected to terminal (1)	2 MΩ Min	More than 5 M Ω
1.00	with switch in "OFF" position		
8	Electric strength (cl.16.2) of insulation tested by applying 2kV/		
1 . 1	50Hz for 60s between	and the second second	
A.	• all terminals (1 & 2) connected together and the body with the	No flashover/ break-	Satisfactory
	switch in "ON" position	down shall occur	
1.00	 each terminal in turn and other terminal connected to the body 	No flashover/ break-	Satisfactory
100	with switch in "ON" position	down shall occur	
15 1	 terminals which are electrically connected together when the 	No flashover/ break-	Satisfactory
Siyes"	switch is in "ON" position, the switch being in "OFF" position	down shall occur	
2		1	
1. A	다섯 옷에 가지 못 빼면 쓴 수가 집에서 했다.		an she an an an ar a b
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Government of India ण मंत्रालय, उपभोक्ता मामले विभाग bution, Department of Consumer Affairs उपभोक्ता मामले, रवा Ministry of Consumer Affain

TESTET HOUSE (Western region) NA

Test Certificate No. प्लॉट सं. सिर्माध्याई.डी.सी., मरोल, अंधर्भ(भूर्ष), मुंबई - 400 093 NTH(WR)/EL(A)/2018/00358B Plot No. F-T0, M.I.D.C., Marol Andherr (世), Muthbai - 400 093 Annexure



Sr.	Description of tests	Requirements	Observation
1.		1 1 1 1 1 1 1 h	A B C
k)	Temperature rise test(cl.17) Temperature rise when 13.5A is passed for 1hr, °C	45°C Max.	16 16 17
m) i.	Making & Breaking capacity(cl.18) Poles connected in series (18.1) (200 operations at 30op/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 & at pf:0.3 + 0.05)	There shall be no sustained arcing	N/A
iii.	Test as per cl.18.2 (100 operations at 30op/min @ 240V with 2s ON and 2s OFF using 15 lamps of 200W)	There shall be no sustained arcing	A B C N/A
n)	Normal operation (cl.19)	6 S S S S S	
i.	Poles connected in series (cl.19.1) (40000 operation @30op/min @240V & 10A; @p.f.0.6±.0.05) with 1s ON and 3s OFF	Shall function correctly during the test	Satisfactory
•	Electric strength test after above test (cl.16)		1 - 11 - 1 - 1 - 5
	 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
	 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)	Sec. Carlot a	18
	Temperature rise when 10A is passed for 1hr, °C	45°C Max.	21 20 20
	Inspection of actuating mechanism (Clause 14.3) (10 operations steadily with actuating moved over 2s)	No undue arcing shall occur	Satisfactory
	One Pole at full load (cl 19 1) (Switch of pattern 2 only)		1. S. A. C A. Y.
	(5000 operation @7.5op/min @240V & 32A; @p.f.0.6 \pm .0.05) Temperature rise test(cl.17)	Shall function correctly	N/A
	Temperature rise when 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)		D E F
	Load A- 10000 operation on each side @ 30 op/ min with 1s ON and 3s OFF; @ $\cos\Phi:0.9\pm0.05$; V _n : 228-252A & I _n :10A-10.5A	No sustained arcing or permanent welding of	Satisfactory
	Load B- 100 operation on each side @ $30 \text{ op}/\text{ min}$ with 1s ON and 3s OFF; V_n : 228V-252V & I_n :10A-10.5A	contact shall occur	Satisfactory
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उपभोक्ता मामले, खुब एवं स Ministry of Consumer Alfairs, Food जय, उपभोक्ता मामले विभाग Department of Consumer Affairs নান

r.	Description of tests	Requirements	Observation
			D E I
	Temperature rise test(cl.17) Temperature rise when 10A is passed for 1 hour, °C	45°C Max.	23 23 23
	One pole at full load (Switch of pattern 2 only) Load A- operation on each side @ op/min with ON and OFF; @ $\cos\Phi:0.9\pm0.05$; V _n : & I _n :	No sustained arcing or permanent welding of	N/A
	Load B- operation on each side @ op/min with ON and OFF; Test Voltage: & Test current:	contact shall occur	N/A
	Temperature rise test(cl.17)		122324
	Temperature rise when 6A is passed for 1 hour, °C	45°C Max.	- N/A - A B
	Mechanical strength (cl.20)	and a start of	4 8 8 6 6 8
	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
	Test for base of surface type switch (cl.20.2) (Switch fitted to cylinder (Dia. 200mm Min.) of rigid steel; fixing screw tightened with Nm torque and then switch is fitted similarly to flat steel sheet.)	Base shall show no damage impairing its further use	N/A
	Test for screwed glands (cl.20.3)		N/A
	 Force necessary for covers, cover plate and actuating mechanism to come off or not come off (cl.20.4) Verification of non-removal of covers, cover plate and actuating mechanism when force not exceeding 80N is 	Actuating member need not come off	Satisfactory
	 Verification of removal of covers, cover plate and actuating mechanism when force not exceeding 120N is applied (cl.20.4.2) 	Actuating member shall come off	Satisfactory
	Test for operating member of cord operated switch (cl.20.9)		N/A
	Desistance to heat (c] 21)		124,6,4%
	Test (cl.21.1)	Marking shall remain	Marking legible
	(Sample kept @ 100±2°C for 1 hr.)	legible	
	Diameter of impression on part retaining current carrying part @125±2°C, mm (cl.21.2)	2 mm Max	0.8 mm
	Diameter of impression parts not retaining current carrying part @75±2°C), mm (cl.21.3)	2 mm Max	0.5 mm

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उपभोक्ता मामले रव partment of Consumer Affairs Ministry of Consumer

भारत सरकार

Test Certificate No. بر المعالية المع



6.9

Sr.	Description of tests	Requirements	Observation
			A B C
q)	Screws, current carrying parts & Connections (cl.22)		1997 1997 1998
i.	Test for breakage of screws or damage to heads of screw	No damage shall occur to	Satisfactory
	connection when screws and nuts are tightened and loosened 5	screw and heads that may	
	times for screws not in engagement with thread of insulating with	impair its further use	
ii	Inspection of screws in engagement with the thread of insulating	Shall ensure correct	N/A
	material which are operated during installation (cl 22.2)	introduction into hole/nut	IVA
iii.	Inspection of design of electrical connection for transmission of	Shall not be transmitted	Conforms
	contact pressure through insulating material (cl.22.3)	through material other	
		than mica, ceramic etc	
iv.	Inspection of screws and nuts which serve electrical as well as	Shall be locked against	Satisfactory
	mechanical connection (clause 22.4)	loosening and rotation	
v.	Test for resistance to corrosion of material of current carrying parts	Shall be resistant to	Satisfactory
	(clause 22.5)	Corrosion Shall be registernt to	NIA
V1.	normal use (cl 22.6)	shall be resistant to	N/A
vii.	Inspection of screws used for the connection of current carrying	Thread forming screws	Satisfactory
	parts (cl.22.7)	shall not be used	
r)	Creepage distance & clearances (cl.23)		
i.	Creepage distance (with and without conductor)		
>	live parts which are separated when the contacts are open	3	More than 3 mm
>	live parts of different polarity	4	N/A
>	live parts and		1. 1. 1. 1. 1. 1. 1.
•	accessible surfaces of pans of insulating material	3	More than 3 mm
•	earthed metal parts, including the earthing circuit	3	N/A
	metal frames supporting the base of flush-type switches	3	N/A
•	screws or devices for fixing bases, covers or cover-plates	3	More than 3 mm
	metal parts of the mechanism, if required to be insulated from live		
	parts (see 10.4)		
~	metal parts of the mechanism, if required to be insulated from		
	screws or devices for fixing bases covers or cover-plates	3	N/A
	metal frames supporting the base of flush-type switches	3	N/A
	accessible metal parts	,	INT
•	live parts and accessible uncerthed metal parts, with the exception	6	NIA
-	of screws and the like	0	N/A
ii	Clearances(with and without conductor)		
>	live parts which are separated when the contacts are open	3	More than 3
>	live parts of different polarity	3	N/A
>	Live parts and		1
•	Accessible surfaces of insulating material	3	More than 3 mm
•	Earthed metal parts, including the earthing circuit,	3	N/A
•	not mentioned under items 9 and 11	3	N/A
•	Metal frames supporting the base of flush-type switches	3	N/A
•	Screws or devices for fixing bases, covers, or cover-plates	3	More than 3 mm
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भारत सरकार

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Form No : NTH (WR)/MUM-5

Government of India

उपभोक्ता मामलेन ख Ministry of Consumer Affa स्म,उपभोक्ता मामले विभाग Department of Consumer Affairs U

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Sr.	Description of tests	Requirements	Observation
•	Metal parts of the mechanism, if required to be insulated from live parts (see 10.4)	3	A B C N/A
•	exclusively earthed metal boxes with the switch mounted in the most unfavourable position	3	N/A
•	unearthed metal boxes, without insulating lining with the switch mounted in the most unfavourable position metal parts of the mechanism, if required to be insulated from accessible metal parts (10.5), and	4.5	N/A
	screws or devices for fixing bases, covers or cover-plates	3	N/A
	metal frames supporting the base of flush-type switches	3	N/A
	accessible metal parts when the base is fixed directly on the wall	3	N/A
4	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
>	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 o	conductor)	
>	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
A	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
s)	Resistance of Insulating Material to Abnormal	191111	<u>G</u>
	Heat, to Fire and to Tracking (cl.24)		a set of states all all all all all all all all all al
i.	Glow Wire Test (cl.24.1)		
	 Parts of insulating material necessary to retain current carrying parts (@ 850°C) 	 No visible flame/ sustained glowing Flame, if any, shall 	No visible flame or sustained glow No visible flame or
	 Parts of insulating material not necessary to retain current carrying parts (@ 650°C) 	extinguish in 30s after glow wire is removed	sustained glow
t)	Resistance to Rusting (Cl.25)	Surface shall show no sign of rusting	No sign of rust observed

Tested by

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Ayan Kumar SA (Electrical)

Checked by

ocsai

Daleep G. Desai Scientist-SB (Electrical)

Approved by

Rane Narendra Dodhu Scientist-SC (Electrical)