

IP68 FLANGED ALUMINUM ENCLOSURE - AW series

IP68 TEST CERTIFICATE

Test certification: Remark

1. This certificate is the IP68 test certificate for model AW21-9-31NGS.

Since the largest size enclosure, AW21-9-31NGS has passed the IP68 test, we consider that the test results shall apply to all other models in the AW series.

2. The waterproof performance will be lost by drilling/milling holes or cutouts for buttons or switches on the enclosures.

Please note that this certificate is only applicable to standard enclosures as-is without any customization, and does not apply to enclosures which have been drilled/milled, or from the installation of connecters/switches and other components.

3. This certificate should be shown, used, or reference to, in its entirety, and is not to be done so in a partial format.

If you wish to upload this certificate on your website, please contact our R&D department stating the reasons for intended usage.

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July 1, 2022

TAKACHI ELECTRONICS ENCLOSURE CO., LTD.

R&D department

E-mail : sales@takachi-el.co.jp

22Y-JET0038

22Y-JET0038

成績証明書

2022年 5月30日(受付番号:D22Y0077)付けでお申込みいただいた 下記の製品は、試験の結果、添付の試験成績書(試験成績書番号:22TR-Y0277) に示すとおり、適用した試験規格の要求事項に適合していることを証明します。

記

申 込 者:株式会社 タカチ電機工業 殿

埼玉県川口市東領家3-21-16

製 品 名: フランジ足付 IP68 防水アルミケース

製品の型:AW21-9-31NGS

製品の定格:--

2022年 6月27日

一般財団法人 電気安全環境研究所(JET) 橫浜事業所長 中島 由勝 TEST CERTIFICATE

We, hereby, verify that the under mentioned electrical product submitted to test at our laboratory dated May 30,2022 (Reception No. D 22Y0077) is in compliance with the requirement of the test standard to be applied, as shown in the attached test report (Ref. No. 22TR-Y0277)

Applicant (name & address):	TAKACHI ELECTRONICS ENCLOSURE CO., LTD.
	3-21-16, HIGASHI-RYOKE, KAWAGUCHI-SHI, SAITAMA, JAPAN (332-0003)

Name of product:

IP68 FLANGED ALUMINUM ENCLOSURE

Model/Type Ref.:

AW21-9-31NGS

Product rating characteristics: ---

June 27,2022

中島由勝 Yoshikatsu Nakajtma (Director) Yokohama Laboratories Japan Electrical Safety & Environment Technology Laboratories (JET)

TEST REPORT

22TR-Y0277

					試 験 成 績 書	Report reference No.:
試	験成績	績書	番号	4	22TR-Y0277	Date & No. of receptio
受任	寸日及7	び受付	番号	e.	2022年 5月30日 (D22Y0077)	Applicant (name & a
申	;	2	者	::	株式会社 タカチ電機工業	
(名称	· 住	所)	埼玉県川口市東領家3-21-16	Name of product:
						Model/Type Ref.:
製	ţ		名	-	フランジ足付 IP68 防水アルミケース	Product rating chara
						Standards:
製	品	Ø	型		AW21-9-31NGS	
製	品(の 定	格	:	=	Test result:
適	用	規	格		JIS C 0920:2003 電気機械器具の外郭による保護等級 (IPコード) 試験項目は 第一特性数字 6、 第二特性数字 8(水深:1 m,時間:24 時間)	
試	験	結	果	r	適 合	
	202	在日	E 2	7 日		

一般財団法人 電気安全環境研究所(JET)
 横浜事業所長 中島 由場
 1/7

No. of reception:	May 30, 2022 (D22Y0077)
nt (name & address):	TAKACHI ELECTRONICS ENCLOSURE CO., LTD.
	3-21-16, HIGASHI-RYOKE, KAWAGUCHI-SHI, SAITAMA, JAPAN (332-0003)
of product:	IP68 FLANGED ALUMINUM ENCLOSURE
Гуре Ref.:	AW21-9-31NGS
t rating characteristics:	_
rds:	JIS C 0920: 2003 (IP code) Protection grade of enclosure of electrical machinery and equipment
	Test article: First characteristic number 6, Second characteristic number 8 (Depth: 1 m, time: 24 hours)
sult:	Pass
	June 27, 2022

中島由勝 Yoshikatsu Nakajtma (Director) Yokohama Laboratories Japan Electrical Safety & Environment Technology Laboratories (JET)

試験成績書番号:22TR-Y0277	Testing laboratory: Japan Electrical Safety & Environment Technology Laboratories
 試験実施場所: 一般財団法人 電気安全環境研究所 □ 東京事業所 〒151-8545 東京都渋谷区代々木5-14-12 	 Tokyo office 5-14-12 Yoyogi, Shibuya-ku, Tokyo 151-8 545 Yokohama Office 1-12-30 Motomiya, Tsurumi-ku, Yokohama-shi, Kanagawa 230-0004 Kansai Office
 横浜事業所 〒230-0004 神奈川県横浜市鶴見区元宮1-12-30 関西事業所 〒658-0033 兵庫県神戸市東灘区向洋町西4-1 電力技術試験所 	 4-1 Koyochonishi, Higashinada-ku, Kobe-shi, Hyogo 658-0033 Power Technology Laboratory 1-12-28 Motomiya, Tsurumi-ku, Yokohama-shi, Kanagawa 230-0004 Others () Address:
+ 230-0004 神奈川県領浜市鶴見区元宮1-12-28 ロ その他(住所:	Date of test: From : June 6, 2022
試 験 品 受 取 日 : 2022年 5月30日	To : June 23, 2022
試 験 実 施 期 間: 自:2022年 6月 6日 至:2022年 6月23日	Tested by: 根本 和弥 Kazuya Nemoto
試験実施者: 根本和弥根本和弥	Approved by:金澤 誠 Makoto Kanazawa
確認者: <u>金澤誠</u>	Test judgement
試験項目の判定:	N (.A.) Test category does not apply to the test object.
N(.A.):該当しない試験項目	P (ass)Test category does meet the requirement.F (ail)Test category does not meet the requirement.
P(ass): 適合した試験項目 F(ail): 適合しない試験項目	 Test category not applied. (specified by applicant)
- :適用しなかった試験項目(依頼者の指定による)	- General remarks:
一般注意事項:	This test report is valid only for the products tested.
 この試験成績書は、試験を行った製品に対してのみ有効である。 この試験成績書を部分複写して使用する場合には、JETの承認を 書面により受けなければならない。 	JET approval must be obtained in writing when using this test report as a partial copy.

2/7

	013 C 0320(2003) / IEC 0		strat ert
項目	要求事項一試驗	結果	判定
11	試験の一般的要求事項		D
11 1	水あびにんないに対する試験性の大気状態		P
11.1	用用温度,15~95%	アヒッション	F
	周囲温度,15~550	開始時 23℃	
		終了時 21℃	P
	dentified and and a	じんあい試験時 23 °C	
	相对湿度:25~75%	防水試験	
		<i>開始時 41 90</i> 較了時 64 06	P
		12 J Ng 07 JU	
		じんあい試験時 61 %	
	大気圧:86~106kPa	防水試験	
		開始時 101.3 kPa	
		終了時 101.9 kPa	P
		1 / + 1) Street 101 6 4Do	
11.0		しんめい 試験 時 101.0 KPa	-
11.2	1 飲試験面は試験にわいて次による:	+r.17	P
	- 清净で新品の状態	新商	P
	一元成品	元成品	P
	代表部分		N
	- 同一寸法の形状をもつ小型のもの		N
	被試験品の個数		-
		(約水與駛用 1 百)	P
	被試験品の取付・組立状態	CTU USU BARKIN T ET	N
	前処理の有無	じんあい試験用の被試験品に	
	NAME OF TAXA	は申込者による減圧用配管加	P
		エあり	
	充電状態の有無	なし	P
	動作状態の有無	なし	P
11.3	試験条件の適用及び試験結果の解釈	水抜孔及び通気孔なし	P
	水抜孔及び通気孔がある場合の試験に関する		N
	試験余件の週用及び試験結果の解釈	[= ~ ### .	-
11.1	試験結果の解釈に使用した規格		P
11.4	第一特性数子に対する試験条件の組み合わせ、 ま5滴用	第一符性数子 0	P
11.5	人家の内部に爆発を入わたい場合(从家道独	め郭内朝/-雷気機架た!	-
11.0	の場合)	アチャアチロリー電気液面なし	P
	外郭内部の電気機器の有無	影響を受ける箇所は被試験	0
		品内部全体	P
12	第一特性数字によって表される危険な個所へ(の接近に対する保護に関する	N
] 訊歌		
19	第一結婚物空によって事される从来因影物に	対する保護の試験	D
12 1	家 特に数子にようて数で40%の不面が物に、		P
10.1	事7/こテキカた対除古法乃び対除冬州た済田	ドム本ハ討除特徴	F
		被試験品内部を自圧にする	P
13.2	第一特性数字1、2、3及び4に対する試験条件	AND TANKI THE C. PERMIT	N
13.3	第一特性数字1.2.3及び4に対する適合冬性		N
13.4	第一特性数字5及び6に対するにんない試験	第一姓性数字 6	P
10.1	付回9に示す試驗装置た信田	付回2 (ガストチャッパ)	P
13.44	カテゴリー1の从家	+=	P
10.44	- 9時間(四引索: 40~60位の密待(吐間)	117-19-1	P AI
	4時間(吸引率:40~00倍の谷債/時間)	0 11±88	ĮV.
	で(吸引率く40倍の容積/時間)	(最大2kPaの減圧時	P
	S WATT STOLLANDING MINT	吸引率<40倍の容積/時間)	

	JIS C 0920 (2003) / IEC 6	0529 (2001)	10211		
Clause	Requirement — Test	Result - Remark	Verdict		
1	General requirements for the tests	1	Р		
1.1	Atmospheric conditions for water or dust tests :		Р		
	Temperature range: 15~35 °C	Temperature for water test: Start 23 °C, End 21 °C Temperature for dust test: 23 °C	Р		
	Relative humidity: 25-75 %	Relative humidity for water test: Start 47%,End 64% Relative humidity for dust test: 61%	Р		
	Air pressure: 86 ~ 106 kPa	Air pressure for water test: 101.9 kPa Air pressure for dust test: 101.6 kPa	Р		
1.2	Test samples for each test		Р		
	- in a clean and new condition	New condition	Р		
	- the complete equipment	Complete equipment	Р		
	- representative parts		N		
	- smaller equipment with same full-scale design		N		
	Number of samples to be tested	2 sets Test for protection against water: 1 set Test for protection against solid foreign object: 1 set	Ρ		
	Conditions for mounting, assembling and positioning of samples		Ν		
	Pre-conditioning	The sample for dust test was set with pipe for depression	Ρ		
	Whether to be tested electrically charged or not	Not electrically charged	Р		
	Whether to be tested with its parts in motion or not	Not in motion	Р		
1.3	Application of test requirements and interpretation of test results	No drain holes and no ventilation openings	Р		
	Standard applied for the general requirements for tests and the acceptance conditions for equipment containing drain-holes or ventilation openings		N		
	Standard applied for the interpretation of test results	This standard	Р		
1.4	Combination of test conditions for the first characteristic numeral: Table V applied	The first characteristic numeral 6	Р		
1.5	Empty enclosures		Р		
	Whether the enclosure to be tested is with or without equipment inside	Without equipment inside	Р		
2	Tests for protection against access to hazardous parts indicated by the first characteristic numeral				
3	Tests for protection against solid foreign objects indicated by the	first characteristic numeral	Р		
3.1	Test equipment		Р		
	The test means and the main test conditions applied as in Table VII	Dust test equipment Negative pressure inside the product under test	Р		
3.2	Test conditions for first characteristic numerals 1, 2, 3, 4		Р		
3.3	Acceptance conditions for first characteristic numerals 1, 2, 3, 4		Р		
3.4	Dust test for characteristic numerals 5 and 6	The first characteristic numeral 6	Р		
	Use of dust chamber in Fig. 2	Dust chamber	Р		
3.4A	Category 1 enclosures		Р		
	- 2 hours (extraction rate: 40~60 times the volume per hour)		Ν		
	- Until 80 times the volume or 8 hours have passed (40 times the volume / hour suction rate)	8 hours (Extraction rate from the enclosures were less than 40 times the volume of the enclosure per hour with maximum depression of 2kPa)	Р		

試験成績書番号:22TR-Y0277

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	JIS C 0920 (2003) / IEC 6	0529 (2001)	
項目	要求事項一試験	結果	判定
13.4B	カテゴリー2の外郭		N
13.4C	カテゴリー1及びカテゴリー2の外郭	被試験品は完成品の状態	P
	被試験品(外郭)を完成品の状態で設置でき ない場合、次による:		N
13.5	第一特性数字5に対する特定条件		N
13.6	第一特性数字6に対する特定条件		P
13.6.1	第一特性数字6に対する試験条件		P
	カテゴリー1を適用	(13.4A 項 参照)	P
13.6.2	第一特性数字6に対する適合条件		P
	試験終了時、外郭内にじんあいの堆積がない	被試験品内部にタルク粉の 堆積なし	P

14	第二特性数字によって表される水に対する保護	獲等級の試験	P
14.1	試験装置		P
	表8に示された試験方法及び試験条件を適用	第二特性数字 8 タンク	Р
14.2	試験条件		P
	14.2に従って表8に示された試験方法及び主 要試験の実施	表 8の条件にて試験実施 (14.2.8 項 参照)	P
	水と被試験品との温度差:最大5 K	開始時 温度差:2K 水温:21℃ 被試験品の温度:23℃ 終了時 温度差:0K 水温:22℃ 被試験品の温度:22℃	P
	被試験品(外郭)の表面積:誤差10%以内	1.0 ㎡以下	P
14.2.1	滴水試験装置による第二特性数字1に対する 試験		N
14.2.2	滴水試験装置による第二特性数字2に対する 試験		N
14.2.3	オシレーティングチューブ又は散水ノズルに よる第二特性数字3に対する試験		N
14.2.4	オシレーティングチューブ又は散水ノズルに よる第二特性数字4に対する試験		N
14.2.5	直径6.3 mmノズルによる第二特性数字5に対する試験		N
14.2.6	直径12.5 mmノズルによる第二特性数字6に 対する試験		N
14.2.7	深さ0.15~1mの一時的潜水状態での第二特 性数字7に対する試験		N
14.2.8	協議のうえ実施する継続的潜水状態での第二 特性数字8に対する試験		Р
	試験条件:		P
	- 該当個別規格の規定による		N
	- 製造者と使用者との合意による	申込者(製造者)の指定によ る試験条件 水深 1 m 潜水時間 24 時間	P
14.3	適合条件		P
	適用適合条件:		Р
	- 14.3に規定	14.3 項の適合条件	P
	- 個別製品規格に規定		N
	被試験品(外郭)内部への水の浸入の有無	被試験品内部に浸水なし	Р
	被試験品(外郭) 内部に水が侵入した場合・		N

15 付加文字によって表される危険な部分への接近に対する保護のための試験 N

Test report reference no. 22TR-Y0277

JIS C 0920 (2003) / IEC 60529 (2001)				
Clause	Requirement — Test	Result - Remark	Verdict	

1-0-0- biggly 1 antibours and Category 2 enclosures The sample was complete equipment In 1-2-2 Test or each of 6100 on the complete enclosure in the test chamber, one of the 6100 on the complete enclosure in the test chamber, one of the 6100 on the complete enclosure in the test chamber, one of the 6100 on the complete enclosure in the test chamber, one of the 6100 on the complete enclosure in the test chamber, one of the 6100 on the complete enclosure in the test chamber of test characteristic numeral 6 N 15.6 Special conditions for first characteristic numeral 6 N N 15.6 Special conditions for first characteristic numeral 6 N N 15.6 Special conditions P N descent of the sample P 15.6 Category 1 applied tacks on protection against water indicated by the second characteristic numeral P 14.1 Tests for protection against water indicated by the second characteristic numeral 8 P 14.2 Test conditions P N tacks on the main test conditions applied as in Table VIII P 14.1 Tests for protection against water indicated by the second characteristic numeral 8 P N 14.2 Test for second characteristic numeral 10 P Eeeee Section 12.00 P	13.4B	Catagon / 2 and as uses		N
13.4.0 The sumparticable to test the complete enclosure in the test hamber, one of the following proceedure shall be applied. N 13.6 Special conditions for first characteristic numeral 6 N 13.6 Special conditions for first characteristic numeral 6 P 13.6 Category 1 applied (See Section 13.4A) P 13.6 Category 1 applied (See Section 13.4A) P 13.6 Test conditions for first characteristic numeral 6 No taccum powder entered the sample P 13.6 Test conditions First characteristic numeral 6 No taccum powder entered the sample P 14.1 Test conditions Test conditions applied as in Table VIII P Test conditions applied as in Table VIII P 14.2 Test conditions applied as in Table VIII P Test conditions applied as in Table VIII P 14.2 Test conditions applied as in Table VIII P Test conditions applied as in Table VIII P 14.2 Test conditions applied as in Table VIII P Test conditions applied as in Table VIII P 14.2 Test conditions applied as in Table VIII P Test conditions applied as for for conduct ander test 23 °C Test conditions applied as	10.40	Category 1 enclosures and Category 2 enclosures	The completure consists	
Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: Image: Deal of the following proceedure shall be applied: <t< td=""><td>13.4C</td><td>If it is impracticable to test the complete enclosure in the test</td><td>I ne sample was complete equipment</td><td>P</td></t<>	13.4C	If it is impracticable to test the complete enclosure in the test	I ne sample was complete equipment	P
13.5 Special conductors for transmission numeral 5 M 13.6 Special conductors for transmarting numeral 6 P 13.6.1 Special conductors for transmarting numeral 6 P 13.6.2 Acceptance conditions P 13.6.3 Special conductors P 13.6.4 Acceptance conditions P 14.7 Test conditions of triat characteristic numeral P 14.1 Test for protection against water indicated by the second characteristic numeral P 14.1 Test means P 14.2 Test conditions P 14.3 Test means and the main test conditions applied as in Table VIII P 15.5 Special conditions P 15.6 Special conditions P 16.1 Test conditions P 16.2 Incest means and the main test conditions applied as in Table VIII P 16.2 Test conditions P 16.2 Difference between water temperature and temperature of the beginning. P 17.5 Test conditions of the enclosure surface area: within 10% error Not more than 1.0 m ² 16.2.1 Test for second characteristic numeral 2 with drip box N 16.2.2 Test for second characteristic numeral 2 with socillating tube or spra		chamber, one of the following procedure shall be applied:		14
13.6 Special conductors for first characteristic numeral 6 P 13.6 Test conditions for first characteristic numeral 6 Gene Section 13.4A) P 13.6.2 Acceptance conditions for first characteristic numeral 6 Gene Section 13.4A) P 13.6.2 Acceptance conditions for first characteristic numeral 6 Gene Section 13.4A) P 13.6 Test conditions for first characteristic numeral 7 No facture provide entered the sample P 14.1 Test for forection against water indicated by the second characteristic numeral 8 P P 14.2 Test conditions against water indicated by the second characteristic numeral 8 P 14.2 Test conditions against water indicated by the second characteristic numeral 8 P 14.2 Test conditions against water indicated by the second characteristic numeral 8 P 14.2 Test conditions against water indicated by the second characteristic numeral 8 P 14.2 Test conditions against water indicated by the second characteristic numeral 7 P 14.2 Test for second characteristic numeral 1 with the drip box N N 14.2.4 Test for second characteristic numeral 3 with oscillating tube or spray numersion N N	13.5	Special conditions for first characteristic numeral 5		N
13.6.1 Test continuous to this characteristic numeral of the section 13.4A) P 13.6.2 Acceptance conditions P 13.6.2 Acceptance conditions P 13.6.2 Acceptance conditions P 14 Tests for protection against water indicated by the second characteristic numeral P 14.1 Tests for protection against water indicated by the second characteristic numeral P 14.1 Tests conditions P 14.1 Tests conditions P 14.1 Tests conditions P 14.1 Tests conditions P 15.5 Tests performed according to sub-1.14.2, the test method and main fest conditions are given in Table VIII P 16.1 Tests performed according to sub-1.14.2, the test method and main fest conditions are given in Table VIII P 17.5 Tests performed according to sub-1.14.2, the test method and main fest conditions are given in Table VIII P 16.1 Test performed according to sub-1.14.2, the test method and main fest conditions are given in Table VIII P 17.6 Test performed according to sub-1.14.2, the test method and main fest conditions are given in Table VIII P 16.1 Test perecond characteristic	13.6	Special conditions for first characteristic numeral 6		P
Date by Table of	13.6.1	Lest conditions for first characteristic numeral 6	(Cap Caption 12.44)	P
13.6.2 Podepuint's Containing P No deposit of dust is observable inside the endosure at the end of the test No talcum powder entered the sample P 14 Tests for protection against water indicated by the second characteristic numeral P 14.1 Tests for protection against water indicated by the second characteristic numeral P 14.1 Tests performed according to sub-cl. 14.2, the test method and main Test conditions are given in Table VIII P 14.2 Test conditions P Test performed according to sub-cl. 14.2, the test method and main Test conditions are given in Table VIII P 14.2 Test conditions P Test performed according to sub-cl. 14.2, the test method and main Test conditions are given in Table VIII P 14.2 Test conditions P Test conditions are given in Table VIII P 14.2 Test for second characteristic numeral at temperature of the product under test: 23 "C When finished P 14.2.1 Test for second characteristic numeral 1 with be drip box N N 14.2.2 Test for second characteristic numeral 3 with oscillating tube or spray N N 14.2.4 Test for second characteristic numeral 6 with 0.5 min nozzle N N <td< td=""><td>12.6.2</td><td></td><td>(See Section 15.4A)</td><td>P</td></td<>	12.6.2		(See Section 15.4A)	P
Interest No tacum power enered the sample P 14 Tests for protection against water indicated by the second characteristic numeral P 14.1 Test means P 14.1 Test means and the main test conditions applied as in Table VIII The second characteristic numeral 8 P 14.2 Tests conditions P Tests performed according to sub-C1.4.2, the test method and main Test conditions are given in Table VIII P 14.2 Tests conditions P Test conditions are given in Table VIII P 14.2 Test conditions P Test conditions P 14.2 Test conditions P Test conditions P 14.2 Test conditions P Test conditions P 14.2 Test of conditions P Test conditions P 14.2.1 Test for second characteristic numeral 1 with the drip box N N 14.2.2 Test for second characteristic numeral 2 with oscillating tube or spray N N 14.2.4 Test for second characteristic numeral 7: temporary immersion N N <td>13.0.2</td> <td>No deposit of dust is observable inside the enclosure at the end of</td> <td></td> <td>P</td>	13.0.2	No deposit of dust is observable inside the enclosure at the end of		P
14 Tests for protection against water indicated by the second characteristic numeral P 14.1 Test means P 14.1 Test means and the main test conditions applied as in Table VIII The second characteristic numeral 8 P 14.2 Test conditions P 14.2 Test performed according to sub-cl. 14.2, the test method and main Test conditions are given in Table VIII P 14.2 Test performed according to sub-cl. 14.2, the test method and main Test conditions are given in Table VIII P 14.2 Test performed according to sub-cl. 14.2, the test method and main Test conditions are given in Table VIII P 14.2 Test performed according to sub-cl. 14.2, the test method and main Test conditions are given in Table VIII P 14.2 Test for second characteristic numeral and temperature of the performed according to sub-cl. 14.2, the test method and main Test conditions are given in Table VIII P 14.2.1 Test for second characteristic numeral 1 with the drip box N N N 14.2.2 Test for second characteristic numeral 3 with dociliating tube or spray N N 14.2.4 Test for second characteristic numeral 7 temporary immersion N N 14.2.5 Test for second characteristic numeral 7: temporary immersion N 14.2.6 Test for second		the test	No talcum powder entered the sample	Р
14.1 Test means P The test means and the main test conditions applied as in Table VIII The second characteristic numeral 8 P 14.2 Test conditions P Test performed according to sub-cl. 14.2, the test method and main Test conditions are given in Table VIII P 14.2 Test performed according to sub-cl. 14.2, the test method and main Test conditions are given in Table VIII P 14.2 Test performed according to sub-cl. 14.2, the test method and main Test conditions are given in Table VIII P 14.2 Test performed according to sub-cl. 14.2, the test method and main Test conditions are given in Table VIII P 14.2 Test for second characteristic numeral and temperature of the performance of the product under test: 23 °C Where temperature: 21 °C Temperature of the product under test: 23 °C 14.2.1 Test for second characteristic numeral 1 with the drip box N N 14.2.2 Test for second characteristic numeral 2 with oraciliating tube or spray N N 14.2.4 Test for second characteristic numeral 3 with oscillating tube or spray N N 14.2.5 Test for second characteristic numeral 7: temporary immersion N N 14.2.6 Test for second characteristic numeral 7: temporary immersion N N 14.2.7 Test for second characteristic numeral	14	Tests for protection against water indicated by the second characteristic num	neral	Р
The test means and the main test conditions applied as in Table VIII The second characteristic numeral 8 P 14.2 Test conditions Fest conditions P 14.2 Test conditions Fest stonditions are given in Table VIII P 14.2 Test conditions Fest stonditions are given in Table VIII P 14.2 Test conditions Fest conditions are given in Table VIII P 14.2 Test conditions Fest period Reference: 2K Reference: 2K 14.2.1 Test for second characteristic numeral 1 with the drip box N N N 14.2.2 Test for second characteristic numeral 3 with oscillating tube or spray N N 14.2.4 Test for second characteristic numeral 4 with oscillating tube or spray N N 14.2.5 Test for second characteristic numeral 7: temporary immersion N N 14.2.6 Test for second characteristic numeral 8: continuous immersion N N 14.2.6 Test for second characteristic numeral 7: temporary immersion N N 14.2.6 Test for second characteristic numeral 7: temporary immersion N </td <td>14.1</td> <td>Test means</td> <td></td> <td>Р</td>	14.1	Test means		Р
14.2 Test conditions P Tests performed according to sub-cl. 14.2, the test method and main test which was given in Table VIII P Difference between water temperature and temperature of the specimen (maximum 5K) Nthe beginning: Temperature difference: 2K Water temperature: 21 °C Temperature difference: 0K Water temperature: 21 °C Temperature difference: 0K Water temperature: 21 °C Temperature of the product under test: 22 °C P 14.2.1 Test for second characteristic numeral 1 with the drip box Nt Nt 14.2.2 Test for second characteristic numeral 2 with drip box Nt 14.2.4 Test for second characteristic numeral 3 with oscillating tube or spray Nt 14.2.4 Test for second characteristic numeral 3 with oscillating tube or spray Nt 14.2.5 Test for second characteristic numeral 3 with oscillating tube or spray Nt 14.2.6 Test for second characteristic numeral 3 with 0.5 mm nozzle Nt 14.2.6 Test for second characteristic numeral 7: temporary immersion Nt 14.2.6 Test for second characteristic numeral 8: continuous immersion P 14.2.8 subject to agreement Nt 14.2.8 subject to agreement P 14.2.6 Test for second characteristic numeral 7: temporary immersion <		The test means and the main test conditions applied as in Table VIII	The second characteristic numeral 8 Tank	Р
Lests performed according to sub-cl. 14.2, the test method and main [ref conditions are given in Table VIII] p test which was given in Table VIII At the beginning: P Difference between water temperature and temperature of the specimen (maximum 0K) At the beginning: P Calculation of the enclosure surface area: within 10% error Not more than 1.0 m ² P 14.2.1 Test for second characteristic numeral 2 with drip box N 14.2.2 Test for second characteristic numeral 2 with drip box N 14.2.4 Test for second characteristic numeral 3 with oscillating tube or spray N 14.2.5 Test for second characteristic numeral 5 with 6.3 mm nozzle N 14.2.7 Test for second characteristic numeral 5 with 6.3 mm nozzle N 14.2.7 Test for second characteristic numeral 6 with 12.5 mm nozzle N 14.2.7 Test for second characteristic numeral 8: continuous immersion P 14.2.8 subject to agreement P 14.3 Acceptance conditions P 14.2.8 test for second characteristic numeral 8: continuous immersion P 14.2.8 test for second characteristic numeral 8: continuous immersion<	14.2	Test conditions		Р
bifference between water temperature and temperature of the specimen (maximum 5K) At the beginning: Temperature difference: 2K Water temperature: 21 °C Temperature of the product under test: 23 °C When finished P Calculation of the enclosure surface area: within 10% error Not more than 1.0 m ² P 14.2.1 Test for second characteristic numeral 1 with the drip box N N 14.2.2 Test for second characteristic numeral 2 with drip box N N 14.2.3 Test for second characteristic numeral 3 with oscillating tube or spray N N 14.2.4 Test for second characteristic numeral 3 with oscillating tube or spray N N 14.2.4 Test for second characteristic numeral 5 with 6.3 mm nozzle N N 14.2.5 Test for second characteristic numeral 7: temporary immersion between 0.15 m and 1 m N 14.2.6 Test for second characteristic numeral 8: continuous immersion between 0.15 m and 1 m P 14.2.8 Test for second characteristic numeral 8: continuous immersion between 0.15 m and 1 m P 14.2.8 Test for second characteristic numeral 8: continuous immersion between 0.15 m and 1 m P 14.2.8 Test conditions specified by the manufacturer Water depth 1 m, Immersion 24 hours		I ests performed according to sub-cl. 14.2, the test method and main test which was given in Table VIII	See Section 14.2.8)	Р
Calculation of the enclosure surface area: within 10% error Not more than 1.0 m ² P 14.2.1 Test for second characteristic numeral 1 with the drip box N 14.2.2 Test for second characteristic numeral 2 with drip box N 14.2.3 Test for second characteristic numeral 3 with oscillating tube or spray N 14.2.4 Test for second characteristic numeral 3 with oscillating tube or spray N 14.2.5 Test for second characteristic numeral 5 with 6.3 mm nozzle N 14.2.6 Test for second characteristic numeral 5 with 6.3 mm nozzle N 14.2.6 Test for second characteristic numeral 5 with 12.5 mm nozzle N 14.2.7 Test for second characteristic numeral 7: temporary immersion N 14.2.8 Test for second characteristic numeral 8: continuous immersion N 14.2.8 Test for second characteristic numeral 8: continuous immersion P According to the provisions of the applicable individual standard N N By agreement between manufacturer and user Test conditions specified by the manufacturer P 14.3 Acceptance conditions applied as specified in : P Acceptance conditions app		Difference between water temperature and temperature of the specimen (maximum 5K)	At the beginning: Temperature difference: 2K Water temperature: 21 °C Temperature of the product under test: 23 °C When finished Temperature difference: 0K Water temperature: 22 °C Temperature of the product under test: 22 °C	Р
142.1 Test for second characteristic numeral 1 with the drip box N 142.2 Test for second characteristic numeral 2 with drip box N 142.3 Test for second characteristic numeral 3 with oscillating tube or spray nozzle N 142.4 Test for second characteristic numeral 4 with oscillating tube or spray nozzle N 142.5 Test for second characteristic numeral 5 with 6.3 mm nozzle N 142.6 Test for second characteristic numeral 6 with 12.5 mm nozzle N 142.7 Test for second characteristic numeral 7: temporary immersion between 0.15 m and 1 m N 142.8 Test for second characteristic numeral 8: continuous immersion subject to agreement P 14.2.8 Test Conditions P According to the provisions of the applicable individual standard N N By agreement between manufacturer and user Test conditions specified by the manufacturer Water depth 1 m, Immersion 24 hours P 14.3 Acceptance conditions applied as specified in : P P - sub-clause 14.3 sub-clause 14.3 P P - the relevant product substandard N N N Whether or not any water has entered, it is proved by inspection that any water witch ente		Calculation of the enclosure surface area: within 10% error	Not more than 1.0 m ²	Р
14.2.2 Test for second characteristic numeral 2 with drip box N 14.2.3 Test for second characteristic numeral 3 with oscillating tube or spray nozzle N 14.2.4 Test for second characteristic numeral 4 with oscillating tube or spray nozzle N 14.2.4 Test for second characteristic numeral 5 with 6.3 mm nozzle N 14.2.5 Test for second characteristic numeral 5 with 6.3 mm nozzle N 14.2.6 Test for second characteristic numeral 6 with 12.5 mm nozzle N 14.2.7 Test for second characteristic numeral 7: temporary immersion between 0.15 m and 1 m N 14.2.8 Test for second characteristic numeral 8: continuous immersion subject to agreement P 14.2.8 Test for second characteristic numeral 8: continuous immersion subject to agreement P 14.2.8 Test for second characteristic numeral 8: continuous immersion subject to agreement P 14.2.8 Test for second characteristic numeral 8: continuous immersion subject to agreement P 14.2.8 Test for second characteristic numeral 8: continuous immersion subject to agreement P 14.2.8 Test for second characteristic numeral 8: continuous immersion subject to agreement P 14.3 According to the provisions of the applicable individual standa	14.2.1	Test for second characteristic numeral 1 with the drip box		Ν
14.2.3 Test for second characteristic numeral 3 with oscillating tube or spray nozzle N 14.2.4 Test for second characteristic numeral 4 with oscillating tube or spray nozzle N 14.2.5 Test for second characteristic numeral 5 with 6.3 mm nozzle N 14.2.6 Test for second characteristic numeral 5 with 6.3 mm nozzle N 14.2.6 Test for second characteristic numeral 7: temporary immersion between 0.15 m and 1 m N 14.2.7 Test for second characteristic numeral 8: continuous immersion between 0.15 m and 1 m N 14.2.8 Test for second characteristic numeral 8: continuous immersion between 0.15 m and 1 m P 14.2.8 Test for second characteristic numeral 8: continuous immersion subject to agreement P 14.2.8 Test for second characteristic numeral 8: continuous immersion subject to agreement P 14.2.8 Test for second characteristic numeral 8: continuous immersion subject to agreement P 14.3.4 According to the provisions of the applicable individual standard N By agreement between manufacturer and user Test conditions specified by the manufacturer Water depth 1 m, Immersion 24 hours P 14.3.4 Acceptance conditions applied as specified in : P - sub-clause 14.3 <t< td=""><td>14.2.2</td><td>Test for second characteristic numeral 2 with drip box</td><td></td><td>N</td></t<>	14.2.2	Test for second characteristic numeral 2 with drip box		N
14.2.4 Test for second characteristic numeral 4 with oscillating tube or spray nozzle N 14.2.5 Test for second characteristic numeral 5 with 6.3 mm nozzle N 14.2.6 Test for second characteristic numeral 6 with 12.5 mm nozzle N 14.2.7 Test for second characteristic numeral 7: temporary immersion between 0.15 m and 1 m N 14.2.8 Test for second characteristic numeral 7: temporary immersion between 0.15 m and 1 m N 14.2.8 Test for second characteristic numeral 8: continuous immersion subject to agreement P 14.2.8 Test for second characteristic numeral 8: continuous immersion between nanufacturer and user P 14.3 According to the provisions of the applicable individual standard N 14.3 Acceptance conditions P 14.3 Acceptance conditions applied as specified in : P 14.3 Acceptance conditions applied as specified in : P - sub-clause 14.3 sub-clause 14.3 P - the relevant product substandard N N Mether or not any water has entered No water entered the test sample P If any water has entered, it is proved by inspection that any water which enters: N 15	14.2.3	Test for second characteristic numeral 3 with oscillating tube or spray nozzle	/	N
14.2.5 Test for second characteristic numeral 5 with 6.3 mm nozzle N 14.2.6 Test for second characteristic numeral 6 with 12.5 mm nozzle N 14.2.7 Test for second characteristic numeral 7: temporary immersion between 0.15 m and 1 m N 14.2.8 Test for second characteristic numeral 7: temporary immersion between 0.15 m and 1 m N 14.2.8 Test for second characteristic numeral 8: continuous immersion subject to agreement P Test Conditions P According to the provisions of the applicable individual standard N By agreement between manufacturer and user Test conditions specified by the manufacturer Water depth 1 m, Immersion 24 hours P 14.3 Acceptance conditions applied as specified in : P - sub-clause 14.3 sub-clause 14.3 P - the relevant product substandard N N Whether or not any water has entered No water entered the test sample P If any water has entered, it is proved by inspection that any water which enters: N N 15 Tests for protection against access to hazardous parts indicated by the additional letter N	14.2.4	Test for second characteristic numeral 4 with oscillating tube or spray nozzle	/	N
14.2.6 Test for second characteristic numeral 6 with 12.5 mm nozzle N 14.2.7 Test for second characteristic numeral 7: temporary immersion between 0.15 m and 1 m N 14.2.8 Test for second characteristic numeral 8: continuous immersion between 0.15 m and 1 m P 14.2.8 Test for second characteristic numeral 8: continuous immersion between 0.15 m and 1 m P 14.2.8 Test for second characteristic numeral 8: continuous immersion subject to agreement P According to the provisions of the applicable individual standard N By agreement between manufacturer and user Test conditions specified by the manufacturer Water depth 1 m, Immersion 24 hours P 14.3 Acceptance conditions P Acceptance conditions applied as specified in : P - sub-clause 14.3 sub-clause 14.3 P - the relevant product substandard N N Whether or not any water has entered No water entered the test sample P If any water has entered, it is proved by inspection that any water which enters: N N 15 Tests for protection against access to hazardous parts indicated by the additional letter N	14.2.5	Test for second characteristic numeral 5 with 6.3 mm nozzle		N
14.2.7 Test for second characteristic numeral 7: temporary immersion between 0.15 m and 1 m N 14.2.8 Test for second characteristic numeral 8: continuous immersion subject to agreement P 14.2.8 Test Conditions P According to the provisions of the applicable individual standard N By agreement between manufacturer and user Test conditions specified by the manufacturer Water depth 1 m, Immersion 24 hours P 14.3 Acceptance conditions applied as specified in : P Acceptance conditions applied as specified in : P - sub-clause 14.3 sub-clause 14.3 P - the relevant product substandard No water entered the test sample P If any water has entered, it is proved by inspection that any water which enters: N N 15 Tests for protection against access to hazardous parts indicated by the additional letter N	14.2.6	Test for second characteristic numeral 6 with 12.5 mm nozzle		N
14.2.8 Test for second characteristic numeral 8: continuous immersion subject to agreement P Test Conditions P According to the provisions of the applicable individual standard N By agreement between manufacturer and user Test conditions specified by the manufacturer Water depth 1 m, Immersion 24 hours P 14.3 Acceptance conditions P Acceptance conditions applied as specified in : P - sub-clause 14.3 sub-clause 14.3 P - the relevant product substandard N N Whether or not any water has entered No water entered the test sample P If any water has entered, it is proved by inspection that any water which enters: N 15 Tests for protection against access to hazardous parts indicated by the additional letter N	14.2.7	Test for second characteristic numeral 7: temporary immersion between 0.15 m and 1 m		N
Test Conditions P According to the provisions of the applicable individual standard N By agreement between manufacturer and user Test conditions specified by the manufacturer Water depth 1 m, Immersion 24 hours P 14.3 Acceptance conditions P Acceptance conditions applied as specified in : P - sub-clause 14.3 sub-clause 14.3 P - the relevant product substandard N Whether or not any water has entered No water entered the test sample P If any water has entered, it is proved by inspection that any water N N 15 Tests for protection against access to hazardous parts indicated by the additional letter N	14.2.8	Test for second characteristic numeral 8: continuous immersion subject to agreement		Р
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By agreement between manufacturer and user Test conditions specified by the manufacturer Water depth 1 m, Immersion 24 hours P 14.3 Acceptance conditions P Acceptance conditions applied as specified in : P - sub-clause 14.3 sub-clause 14.3 - the relevant product substandard N Whether or not any water has entered No water entered the test sample If any water has entered, it is proved by inspection that any water which enters: N 15 Tests for protection against access to hazardous parts indicated by the additional letter N		According to the provisions of the applicable individual standard		N
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- sub-clause 14.3 sub-clause 14.3 P - the relevant product substandard N Whether or not any water has entered No water entered the test sample P If any water has entered, it is proved by inspection that any water which enters: N 15 Tests for protection against access to hazardous parts indicated by the additional letter N		Acceptance conditions applied as specified in :		Р
- the relevant product substandard N Whether or not any water has entered No water entered the test sample P If any water has entered, it is proved by inspection that any water which enters: N 15 Tests for protection against access to hazardous parts indicated by the additional letter N		- sub-clause 14.3	sub-clause 14.3	Р
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If any water has entered, it is proved by inspection that any water which enters: N 15 Tests for protection against access to hazardous parts indicated by the additional letter N		Whether or not any water has entered	No water entered the test sample	Р
15 Tests for protection against access to hazardous parts indicated by the additional letter N		If any water has entered, it is proved by inspection that any water which enters:		Ν
	15	Tests for protection against access to hazardous parts indicated by th	e additional letter	N

試験成績書番号:22TR-Y0277

外観写真(防水試験用)



外観写真(じんあい試験用)



減圧用配管

Test report reference no. 22TR-Y0277

Exterior photo (for waterproof test)



Exterior photo (for dustproof test)



Decompression piping

第一特性数字 6の試験状況

じんあい試験前の状況



じんあい試験後の状況



Test report reference no. 22TR-Y0277

Test status of first characteristic number 6

Before dust test



After dust test



試験成績書番号:22TR-Y0277

第二特性数字 8の試験状況

タンク(水槽)内



——以下余白——

Test report reference no. 22TR-Y0277

Test status of the second characteristic number 8

Inside tank

