Zertifikat *Certificate*

mit überwachter Konformität *of surveyed conformity*

TÜV

Zertifikat Nr. *Certificate No.*
J 50070639

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0001

Ihr Zeichen *Client Reference*	**Unser Zeichen** *Our Reference*	**Ausstellungsdatum**	*Date of Issue (day/mo/yr)*
ML-2200-1	ZJL-CDR- 12011111 002	14.10.2005	

Genehmigungsinhaber *License Holder*
Sato Parts Co., Ltd.
3-3-3 Ebisu
Shibuya-ku, Tokyo 150-0013
Japan

Fertigungsstätte *Manufacturing Plant*
Niigata Sato Parts Co., Ltd.
2255-2 Torigoe
Nagaoka-shi, Niigata 940-2316
Japan

Prüfzeichen *Test Mark*

TÜV

Geprüft nach *Tested acc. to*

EN 60947-7-1:2002

Zertifiziertes Produkt *Certified Product*	**(Geräteidentifikation)** *(Product Identification)*	**Lizenzentgelte - Einheit** *License Fee - Unit*
PCB Terminal Block		
Type Designation :	ML-2200-x-yP-z	5
	x = S1 or W1S1	1
	y = 2 to 20 (even number only) for S1 or 4 to 40 (even number only) for W1S1	1
	z = max. 15 digit(s) or blank	1
	Dashes are optional	
Number of Poles :	2 to 20 (for x=S1) 4 to 40 (for x=W1S1)	
Rated Voltage :	AC/DC 320V, 50/60Hz (see Appendix 1) AC/DC 200V, 50/60Hz (see Appendix 1)	
Rated Current :	3A	
Rated Withstand Impulse Voltage :	AC 4000V	
Overvoltage Category :	III	
Pollution Degree :	2 or 3 (see Appendix 1)	
IP Degree :	IP00	
Upper/Lower Limit Temperature :	105°C/-40°C	
Max. Ambient Temperature at Rated Current :	70°C	
Remark :	Replaces J 50070639 page 0001, dated 20.09.2005.	
		8

ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

TÜV Rheinland Product Safety GmbH TÜV Rheinland Zertifizierungsstelle

Zertifizierungsstelle

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Dipl.-Ing. M. Geiser

Zertifikat *Certificate*

mit überwachter Konformität *of surveyed conformity*

TÜV

Zertifikat Nr. *Certificate No.*	Blatt *Page*
J 50070639	0002

Ihr Zeichen *Client Reference*	Unser Zeichen *Our Reference*	Ausstellungsdatum	*Date of Issue (day/mo/yr)*
ML-2200-2	ZJL-CDR- 12011111 003	26.05.2006	

Genehmigungsinhaber *License Holder*
Sato Parts Co., Ltd.
3-3-3 Ebisu
Shibuya-ku, Tokyo 150-0013
Japan

Fertigungsstätte *Manufacturing Plant*
Niigata Sato Parts Co., Ltd.
2255-2 Torigoe
Nagaoka-shi, Niigata 940-2316
Japan

Prüfzeichen *Test Mark*

TÜV

Geprüft nach *Tested acc. to*

EN 60947-7-1:2002

Zertifiziertes Produkt (Geräteidentifikation) **Lizenzentgelte - Einheit**
Certified Product *(Product Identification)* *License Fee - Unit*

PCB Terminal Block

Change

Upper Limit Temperature : 105°C

changed to : 80°C

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

TÜV Rheinland Product Safety GmbH TÜV Rheinland Zertifizierungsstelle

Zertifizierungsstelle

Dipl.-Ing. M. Geiser

Zertifikat *Certificate*

mit überwachter Konformität *of surveyed conformity*

TÜV

Zertifikat Nr. *Certificate No.*	Blatt *Page*
J 50070639	0003

Ihr Zeichen *Client Reference*	Unser Zeichen *Our Reference*	Ausstellungsdatum	*Date of Issue (day/mo/yr)*
NL-2200-3	ZJL-CDR- 12011111 004	19.09.2006	

Genehmigungsinhaber *License Holder*
Sato Parts Co., Ltd.
3-3-3 Ebisu
Shibuya-ku, Tokyo 150-0013
Japan

Fertigungsstätte *Manufacturing Plant*
Niigata Sato Parts Co., Ltd.
2255-2 Torigoe
Nagaoka-shi, Niigata 940-2316
Japan

Prüfzeichen *Test Mark*

TÜV

Geprüft nach *Tested acc. to*

EN 60947-7-1:2002

Zertifiziertes Produkt (Geräteidentifikation) *Certified Product (Product Identification)*

Lizenzentgelte - Einheit *License Fee - Unit*

PCB Terminal Block

Changes

for Type Designation ML-2200-x-yP-z :

Suffix : y = 2 to 20 (even number only) for S1 or
4 to 40 (even number only) for W1S1

changed to : y = 2 to 50 for S1 or
4 to 100 (even number only) for W1S1

Number of Poles : 2 to 20 (for x=S1) 4 to 40 (for x=W1S1)

changed to : 2 to 50 (for x=S1) 4 to 100 (for x=W1S1)

ANLAGE (Appendix): 1.1

TÜV Rheinland Product Safety GmbH TÜV Rheinland Zertifizierungsstelle

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

Zertifizierungsstelle

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Dipl.-Ing. M. Geiser

Zertifikat *Certificate*

mit überwachter Konformität *of surveyed conformity*

TÜVRheinland®

Zertifikat Nr. *Certificate No.*
J 50070639

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0004

Ihr Zeichen *Client Reference*	**Unser Zeichen** *Our Reference*	**Ausstellungsdatum**	*Date of Issue (day/mo/yr)*
--	ZJL-MIU- 12011111 006	01.06.2012	

Genehmigungsinhaber *License Holder*
Sato Parts Co., Ltd.
3-3-3 Ebisu
Shibuya-ku, Tokyo
150-0013 JAPAN

Fertigungsstätte *Manufacturing Plant*
Niigata Sato Parts Co., Ltd.
2255-2 Torigoe
Nagaoka-shi, Niigata
940-2316 JAPAN

Prüfzeichen *Test Mark*

TÜVRheinland®

Geprüft nach *Tested acc. to*

EN 60947-7-1:2009

Zertifiziertes Produkt **(Geräteidentifikation)** **Lizenzentgelte - Einheit**
Certified Product *(Product Identification)* *License Fee - Unit*

PCB Terminal Block, as page 0001

Change

Test Requirement : EN 60947-7-1:2002

changed to : (see above)

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.

TÜV Rheinland LGA Products GmbH Zertifizierungsstelle

Zertifizierungsstelle

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety

Dipl.-Ing. (FH) M. Geiser

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Zertifikat *Certificate*

mit überwachter Konformität *of surveyed conformity*

TÜVRheinland®

Zertifikat Nr. *Certificate No.*	**Blatt** *Page*
J 50070639	0005

Ihr Zeichen *Client Reference*	**Unser Zeichen** *Our Reference*	**Ausstellungsdatum**	*Date of Issue (day/mo/yr)*
FACH-NGT	ZJL-MAA- 12011111 007	30.04.2015	

Genehmigungsinhaber *License Holder*

Sato Parts Co., Ltd.
3-3-3 Ebisu
Shibuya-ku, Tokyo
150-0013 JAPAN

Fertigungsstätte Manufacturing Plant

Sato Parts Co., Ltd. Niigata Factory
2255-2 Torigoe
Nagaoka-shi, Niigata
940-2316 JAPAN

Prüfzeichen *Test Mark*

TÜVRheinland CERTIFIED
Safety
Regular Production Surveillance
www.tuv.com
ID 0800000000

Geprüft nach *Tested acc. to*

EN 60947-7-1:2009

Zertifiziertes Produkt **(Geräteidentifikation)** **Lizenzentgelte - Einheit**
Certified Product *(Product Identification)* *License Fee - Unit*

PCB Terminal Block, as page 0001

Change

Name of Factory: Niigata Sato Parts Co., Ltd.

changed to: (see above)

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.

TÜV Rheinland LGA Products GmbH Zertifizierungsstelle TÜVRheinland

Zertifizierungsstelle

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety

Vilmos Sztaroveczki

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Zertifikat *Certificate*

mit überwachter Konformität *of surveyed conformity*

TÜVRheinland®

Zertifikat Nr. *Certificate No.*
J 50070639

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0006

Ihr Zeichen *Client Reference*	**Unser Zeichen** *Our Reference*	**Ausstellungsdatum**	*Date of Issue (day/mo/yr)*
TUV-ADD-CH	ZJL-MAA- 12011111 007	27.09.2016	

Genehmigungsinhaber *License Holder*
Sato Parts Co., Ltd.
3F Sanyu Bldg. 3-42-1, Hongo
Bunkyo-ku, Tokyo
113-0033 Japan

Fertigungsstätte Manufacturing Plant
Sato Parts Co., Ltd. Niigata Factory
2255-2 Torigoe
Nagaoka-shi, Niigata
940-2316 Japan

Prüfzeichen *Test Mark*

TÜVRheinland CERTIFIED
Safety
Regular
Production
Surveillance
www.tuv.com
ID 0800000000

Geprüft nach *Tested acc. to*

EN 60947-7-1:2009

Zertifiziertes Produkt **(Geräteidentifikation)**
Certified Product *(Product Identification)*

Lizenzentgelte - Einheit
License Fee - Unit

PCB Terminal Block, as page 0001

Change

Address of
License Holder: 3-3-3 Ebisu, Shibuya-ku, Tokyo
150-0013 JAPAN

changed to: (see above)

TÜV Rheinland LGA Products GmbH
TÜVRheinland®
Zertifizierungsstelle

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.

Zertifizierungsstelle

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety

Vilmos Sztaroveczki

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Zertifikat *Certificate*

mit überwachter Konformität *of surveyed conformity*

TÜVRheinland®

Zertifikat Nr. *Certificate No.*
J 50070639

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0007

Ihr Zeichen *Client Reference*	**Unser Zeichen** *Our Reference*	**Ausstellungsdatum**	*Date of Issue (day/mo/yr)*
ADD-CH	ZJL-MAA- 12011111 007	27.02.2020	

Genehmigungsinhaber *License Holder*
Sato Parts Co., Ltd.
3-3-8, Sotokanda,
Chiyoda-ku, Tokyo
101-0021 Japan

Fertigungsstätte Manufacturing Plant
Sato Parts Co., Ltd. Niigata Factory
2255-2 Torigoe
Nagaoka-shi, Niigata
940-2316 Japan

Prüfzeichen *Test Mark*

TÜVRheinland CERTIFIED
Safety
Regular Production Surveillance
www.tuv.com
ID 0800000000

Geprüft nach *Tested acc. to*

EN 60947-7-1:2009

Zertifiziertes Produkt **(Geräteidentifikation)** **Lizenzentgelte - Einheit**
Certified Product *(Product Identification)* *License Fee - Unit*

PCB Terminal Block, as page 0001

Change

Address of
License Holder: 3F Sanyu Bldg. 3-42-1, Hongo
Bunkyo-ku, Tokyo
113-0033 Japan

changed to: (see above)

TÜV Rheinland LGA Products GmbH
TÜVRheinland
Zertifizierungsstelle

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.

Zertifizierungsstelle

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety

Dipl.-Ing. (FH) F. Becker

10/020 d 04.08 ® TÜV, TUEV and TUV are registered trademarks. Utilisation and application requires prior approval.

Constructional Data Form

Licenseholder : **Sato Parts Co., Ltd.**
3-3-3 Ebisu, Shibuya-ku, Tokyo 150-0013 Japan

Factory : **Niigata Sato Parts Co., Ltd**
(full address) 2255-2 -Torigoe, Nagaoka-shi, Niigata 940-2316 Japan.

Type or Model Number : ML-2200 series
Kind of device: Terminal Block

Specifications	
Type designation	ML-2200 series
Contact material	Copper Alloy (Plated)
Number of poles	S1: 2 to 50 W1S1: 4 to 100
Rated voltage	AC/DC 320V (Pollution degree 2 without spacer) AC/DC 320V (Pollution degree 3 with spacer) AC/DC 200V (Pollution degree 3 without spacer)
Rated current	3A
Rated frequency	AC 50/60
Rated withstand Impulse voltage	AC 4000V
Breaking Capacity	AC 2000V / 1minute
Mechanical endurance	100 times
Number of bendings	N/A
Overvoltage category	III
Pollution degree	2 or 3
Creepage / Clearance distance (contact-contact)	≧3.3/≧3.3mm(without spacer) ≧5.8mm/≧5.8mm(with spacer)
Upper limit temperature	80°C
Lower limit temperature	-40°C
Max. ambient temp. at rated current	70°C
IP code	00
Classification	☐ CBC ☒ NCB

Köln, den 25 Aug 2006

TÜV Rheinland
Product Safety GmbH

Ebisu
(Place)

2006-08-22
(Date)

SATO PARTS Co., Ltd M.Kosho
(Stamp and Signature of Applicant)

Constructional Data Form

Specifications (terminals)	
Type of terminals	☐ WRAPPED CONNECTION ☐ CRIMPED CONNECTION ☐ CLIP CONNECTION ☐ PRESS-IN CONNECTIONS ☐ INSULATION DISPLACEMENT CONNECTION ☒ SCREWLESS TERMINALS ☐ SCREW TERMINALS ☐ FLAT, QUICK CONNECT TERMINATIONS ☒ SOLDER TERMINALS ☐ other:
Terminal designation	N/A
Spec. Tightening torque	N/A
Rated cross section of conductor	For flexible conductor: 0.3mm^2～0.75mm^2(AWG22～20) For rigid conductor: Ø0.4mm～Ø1.2mm (AWG26～18)
Kind of conductor	Flexible / rigid
Required preparation of the conductor	N/A
Max. Stripping length	8.5mm
Max. Number of conductors per Terminal	1

Materials

Parts' Name	Material
Housing A	Polyamide, Type 66 Nylon R/C plastic（QMFZ2）、File No. : E48133 UBE INDUSTRIES LTD., Type 2015SV、any color、UL94V-0 RTI : 105℃ CTI : 0 (PLC)
Housing B	
End plate (S)	
End plate (W)	
Spacer	
Release button	PPEP : Polyphenylene ether(Polyphenylene oxide, PPHOX) R/C plastic(QMFZ2)、 File No. : E41179、any color MITSUBISHI ENGINEERING-PLASTICS CORP.、Type AN60、 Flame class(94V-0), CTI : 3(PLC)
	Polycarbonate(lupilon) : R/C plastic(QMFZ2)、File No. : E41179、any color MITSUBISHI ENGINEERING-PLASTICS CORP.、Type FPR3500+、 Flame class(94V-0), CTI : 2(PLC)
	Polyamide (66 Nylon) : R/C plastic(QMFZ2)、 File No. : E48133、any color, UBE INDUSTRIES LTD、Type : 2015SV、 Flame class(94V-0)、CTI : 0 (PLC)
Spring	One provided per pole. Stainless steel, 5.86 by 4.85 by 3.4mm overall、 0.25mm thick. Secured to wire terminal by one notch.
Wire terminal	Copper alloy (Plated)
Wire terminal (T)	Copper alloy (Plated)

Köln, den 25 AUG. 2006

TÜV Rheinland
Product Safety GmbH

Ebisu
(Place)

2006-08-22
(Date)

SATO PARTS Co., Ltd M.Kosho
(Stamp and Signature of Applicant)

Constructional Data Form

TYPE NOMENCLATURE:

Example : $\frac{\text{ML-2200}}{\text{A}}$ — x — yP — z

A — Basic construction (Model No.)

x —Terminal formation

S1 : One row type
W1S1 : Two rows type

y — Number of poles

2 to 50 for S1
4 to 100 (even number only) for W1S1

z — Suffix : Blank or maximum 15 digit(s) numbers and/or letters such as drawing numbers.
Example; Specified drawing number that denote specified colors of the body.

Note : Dashes are optional.

NOTICE OF ALTERATIONS/MODIFICATION
(変更通知)

Applicant（申請会社名）: Sato Parts Co., Ltd. (サトーパーツ株式会社)

Date: 2012/11/9

Signature: D. Sato　　Ref. No.:　　Page: 1/1

(サイン)

Product（製品名）: TERMINAL BLOCK　　Type designation（型式）: ML-2200 series

Report No.:　　License No.: J 50070639

Methods (Design / Component) Presently Employed （変更前：現行）		Alteration/Modification to be Introduced （変更後）	
Part's Name	Material	Part's Name	Material
Housing A	**Polyamide, Type 66 Nylon**	Housing A	**Polyamide, Type 66 Nylon**
Housing B		Housing B	
End plate (S)	R/C plastic (QMFZ2) , File No.:E48133 UBE INDUSTRES LTD., Type 2015SV,any color, UL94V-0 RTI: 105℃ CTI:0(PLC)	End plate (S)	R/C plastic (QMFZ2) , File No.:E48133 UBE INDUSTRES LTD., Type 2015SV,any color, UL94V-0 RTI: 105℃ CTI:0(PLC)
End plate (W)		End plate (W)	
Spacer	R/C plastic (QMFZ2) , File No.:E48133 UBE INDUSTRES LTD., Type 2015SE,any color, UL94V-0 RTI: 105℃ CTI:0(PLC)	Spacer	R/C plastic (QMFZ2) , File No.:E48133 UBE INDUSTRES LTD., Type 2015SE,any color, UL94V-0 RTI: 105℃ CTI:0(PLC)
	R/C plastic (QMFZ2) , File No.:E48285 ASAHI KASEI CHEMICALS CORP., Type FR370, any color, UL94V-0 RTI: 105℃ CTI:0(PLC)		R/C plastic (QMFZ2) , File No.:E48285 ASAHI KASEI CHEMICALS CORP., Type FR370, any color, UL94V-0 RTI: 105℃ CTI:0(PLC) Alternate: R/C plastic (QMFZ2) , File No.:E245249 LANXESS AG, Type A30SFN31, any color, UL94V-0 RTI: 125℃ CTI:0(PLC)

TÜV Rheinland Japan
Genehmigt/Approved
2012-11-14
M. Ueki
Ref. No.:
12011111 007

● 記入の仕方： 変更前（現行）と変更後の対比、違いが明確に理解できる書き方（英語）でお願いします。特に１次側の変更か２次側の変更かを明記下さい。

NOTICE OF ALTERATIONS/MODIFICATION
(変更通知)

Applicant（申請会社名）: Sato Parts Co., Ltd. (サトーパーツ株式会社)

Date: 2009/8/17

Signature: Y. SAKURAGI　　Ref. No.: ZJL-CDR-12011111 004　　Page: 1/2

(サイン)

Product（製品名）: TERMINAL BLOCK　　Type designation（型式）: ML-2200 series

Report No.: 12011111 005　　License No.: J 50070639

Methods (Design / Component) Presently Employed
（変更前：現行）

Part's Name	Material
Housing A	**Polyamide, Type 66 Nylon**
Housing B	R/C plastic (QMFZ2) , File No.:E48133
End plate (S)	UBE INDUSTRES LTD., Type 2015SV,any color, UL94V-0
End plate (W)	RTI: 105℃
Spacer	CTI:0(PLC)

TÜV Rheinland Japan
Genehmigt/Approved
6. Oct. 2009
M. Ueki
Ref. No.:
12011111 005

Alteration/Modification to be Introduced
（変更後）

Part's Name	Material
Housing A	**Polyamide, Type 66 Nylon**
Housing B	
End plate (S)	R/C plastic (QMFZ2) , File No.:E48133
End plate (W)	UBE INDUSTRES LTD., Type 2015SV,any color, UL94V-0
Spacer	RTI: 105℃
	CTI:0(PLC)
	Alternate:
	R/C plastic (QMFZ2) , File No.:E48133
	UBE INDUSTRES LTD., Type 2015SE,any color, UL94V-0
	RTI: 105℃
	CTI:0(PLC)
	R/C plastic (QMFZ2) , File No.:E48285
	ASAHI KASEI CHEMICALS CORP., Type FR370,
	any color, UL94V-0
	RTI: 105℃
	CTI:0(PLC)

● 記入の仕方： 変更前（現行）と変更後の対比、違いが明確に理解できる書き方（英語）でお願いします。特に１次側の変更か２次側の変更かを明記下さい。

NOTICE OF ALTERATIONS/MODIFICATION
(変更通知)

Applicant（申請会社名）: Sato Parts Co., Ltd. (サトーパーツ株式会社)

Date: 2009/8/17

Signature: Y. SAKURAGI　　Ref. No.: ZJL-CDR-12011111 004　　Page: 2/2

(サイン)

Product（製品名）: TERMINAL BLOCK　　Type designation（型式）: ML-2200 series

Report No.: 12011111 005　　License No.: J 50070639

Methods (Design / Component) Presently Employed
（変更前：現行）

Part's Name	Material
Release button	PPEP: Ployphenylene ether(Polyphenylene oxide, PPHOX) R/C plastic(QMFZ2), File No.: E41179, any color MITSUBISHI ENGINEERING-PLASTICS CORP., Type AN60, Flame class(94V-0), CTI:0(PLC)
	Polycarbonate(lupilon): R/C plastic(QMFZ2), File No.: E41179, any color MITSUBISHI ENGINEERING-PLASTICS CORP., Type FPR3500+, Flame class(94V-0), CTI:2(PLC)
	Polyamide(66 Nylon): R/C plastic(QMFZ2), File No.: E48133, any color, UBE INDUSTRIES LTD, Type: 2015SV, Flame class(94V-0), CTI: 0(PLC)
Spring	One provided per pole. Stainless steel, 5.86 by 4.85 by 3.4mm overall, 0.25mm thick. Secured to wire terminal by one notch.
Wire terminal	Copper alloy (Plated)
Wire terminal (T)	Copper alloy (Plated)

TÜV Rheinland Japan
Genehmigt/Approved
6. Oct. 2009
M. Ueki
Ref. No.:
12011111 005

Alteration/Modification to be Introduced
（変更後）

Part's Name	Material
Release button	**PPEP: Ployphenylene ether(Polyphenylene oxide, PPHOX)** R/C plastic(QMFZ2), File No.: E41179, any color MITSUBISHI ENGINEERING-PLASTICS CORP., Type AN60, Flame class(94V-0), CTI:0(PLC) Alternate: R/C plastic(QMFZ2), File No.: E41179, any color MITSUBISHI ENGINEERING-PLASTICS CORP., Type LN60, Flame class(94V-0), CTI:0(PLC)
	Polycarbonate(lupilon): R/C plastic(QMFZ2), File No.: E41179, any color MITSUBISHI ENGINEERING-PLASTICS CORP., Type FPR3500+, Flame class(94V-0), CTI:2(PLC)
	Polyamide(66 Nylon): R/C plastic(QMFZ2), File No.: E48133, any color, UBE INDUSTRIES LTD, Type: 2015SV, Flame class(94V-0), CTI: 0(PLC)
Spring	One provided per pole. Stainless steel, 5.86 by 4.85 by 3.4mm overall, 0.25mm thick. Secured to wire terminal by one notch.
Wire terminal	Copper alloy (Plated)
Wire terminal (T)	Copper alloy (Plated)

● 記入の仕方： 変更前（現行）と変更後の対比、違いが明確に理解できる書き方（英語）でお願いします。特に１次側の変更か２次側の変更かを明記下さい。

NOTICE OF ALTERATIONS/MODIFICATION
(変更通知)

Applicant（申請会社名）: SATO PARTS CO., LTD.

Date: 2006-04-12

Signature: M. Sato
(サイン)

Ref. No.: ML-2200-2

Page: (1/1)

Product（製品名）: TERMINAL BLOCKS

Type designation（型式）: ML-2200

Report No.: 12011111

License No.: J50070639

Methods (Design / Component) Presently Employed
（変更前：現行）

	Material For release button
Material	PPE, Polyphenylene Oxide (PPHOX)
Maker	Mitsubishi Engineering-plastics corp
Type	Type : AN60 , any color, UL94V-0, File No. : E41179 CTI : 3(PLC)

Alteration/Modification to be Introduced
（変更後）

	Material for release button		
Material	PPE, Polyphenylene Oxide(PPHOX)	Polyamide, 66 Nylon	Polycarbonate (Iupilon)
Maker	Mitsubishi Engineering-plastics corp	UBE INDUSTRIES LTD	Mitsubishi Engineering-plastics corp
Type	Type : AN60 , any color, UL94V-0, File No. : E41179 RTI : 105℃、 CTI : 3(PLC)	Type : 2015SV, any color, UL94V-0, File No. : E48133 RTI : 105℃、 CTI : 0 (PLC)	Type : FPR3500+, any color, UL94V-0, File No. : E41179 RTI : 80℃、 CTI : 2(PLC)

Registered material for release button change to three types from one type.
Upper limit temperature change to 80℃ from 105℃.

TÜV Rheinland Japan
Product Safety Dept
Genehmigt/Approved
2006-04-27

Rep. No.:
12011111 003

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NOTICE OF ALTERATIONS/MODIFICATION
(変更通知)

Applicant (申請会社名):	Sato Parts Co., Ltd.	Date:	2023-12-5
Signature (サイン):	Yutaka Kodama Ref. No.:	Page:	1 of 2
Product (製品名):	Terminal Block	Type designation (型式):	ML-2200-x-yP-z
Report No.:	12011111 008	License No.:	J 50070639

Methods (Design / Component) Presently Employed
（変更前：現行）

Insulating Materials	
Parts Name	Material
Housing A Housing B End Plate (S) End Plate (W) Spacer	Polyamide, Type 66 Nylon R/C plastic (QMFZ2), File No. E48133 UBE INDUSTRIES LTD., Type 2015SV, any color, UL94V-0 RTI: 105℃ CTI: 0 (PLC) R/C plastic (QMFZ2), File No. E48133 UBE INDUSTRIES LTD., Type 2015SE, any color, UL94V-0 RTI: 105℃ CTI: 0 (PLC) R/C plastic (QMFZ2), File No. E48285 ASAHI KASEI CHEMICALS CORP., Type FR370, any color, UL94V-0 RTI: 105℃ CTI: 0 (PLC) <u>Alternate:</u> R/C plastic (QMFZ2), File No. E245249 LANXESS AG, Type A30SFN31, any color, UL94V-0 RTI: 125℃ CTI: 0 (PLC)

Alteration/Modification to be Introduced
（変更後）

Insulating Materials	
Parts Name	Material
Housing A Housing B End Plate (S) End Plate (W) Spacer	Polyamide, Type 66 Nylon R/C plastic (QMFZ2), File No. E48285 ASAHI KASEI CORP., Type FR370, any color, UL94V-0 RTI: 105℃ CTI: 0 (PLC) R/C plastic (QMFZ2), File No. E245249 LANXESS AG, Type A30SFN31, any color, UL94V-0 RTI: 125℃ CTI: 0 (PLC)

TÜV Rheinland Japan
Genehmigt/Approved
2024-01-30
Rep. No.:
12011111 008
(150285568)

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NOTICE OF ALTERATIONS/MODIFICATION
(変更通知)

Applicant (申請会社名):	Sato Parts Co., Ltd.	Date:	2023-12-5
Signature (サイン):	Yutaka Kodama Ref. No.:	Page:	2 of 2
Product (製品名):	Terminal Block	Type designation (型式):	ML-2200-x-yP-z
Report No.:		License No.:	J 50070639

Methods (Design / Component) Presently Employed
（変更前：現行）

Insulating Materials

Part's Name	Material
Release button	PPEP: Polyphenylene ether (Polyphenylene oxide, PPHOX) R/C plastic (QMFZ2), File No. E41179, any color MITSUBISHI ENGINEERING-PLASTICS CORP., Type AN60, Flame class (94V-0), CTI: 0 (PLC) <u>Alternate:</u> R/C plastic (QMFZ2), File No. E41179, any color MITSUBISHI ENGINEERING-PLASTICS CORP., Type LN60, Flame class (94V-0), CTI: 0 (PLC) Polycarbonate (Iupilon) R/C plastic (QMFZ2), File No. E41179, any color MITSUBISHI ENGINEERING-PLASTICS CORP., Type FPR3500+, Flame class (94V-0), CTI: 2 (PLC) Polyamide (66 Nylon) R/C plastic (QMFZ2), File No. E48133, any color UBE INDUSTRIES LTD., Type 2015SV, Flame class (94V-0), CTI: 0 (PLC)

Alteration/Modification to be Introduced
（変更後）

Insulating Materials

Part's Name	Material
Release button	Polyphenylene Ether / Polystyrene (PPE / PS) R/C plastic (QMFZ2), File No. E167806, any color GLOBAL POLYACETAL CO., LTD., Type LN60, Flame class (94V-0), CTI: 0 (PLC) Polycarbonate R/C plastic (QMFZ2), File No. E41179, any color MITSUBISHI ENGINEERING-PLASTICS CORP., Type FPR3500+, Flame class (94V-0), CTI: 2 (PLC)

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特に１次側の変更か２次側の変更かを明記下さい。