

# Zertifikat

mit überwachter Konformität of surveyed conformity

# Certificate



Zertifikat Nr. Certificate No.  
J 50097528

Blatt Page  
0001

Ihr Zeichen Client Reference  
ML-2300-1

Unser Zeichen Our Reference  
ZJL-CDR- 12014788 001

Ausstellungsdatum  
19.12.2006

Date of Issue  
(day/month/year)

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

Fertigungsstätte Manufacturing Plant  
Sato Parts Co., Ltd.  
Kasukabe Factory  
8-4 Minami-Sakae-cho  
Kasukabe-shi, Saitama  
344-0057 JAPAN

Prüfzeichen Test Mark

Geprüft nach Tested acc. to



EN 60947-7-1:2002

Zertifiziertes Produkt (Geräteidentifikation)  
Certified Product (Product Identification)

Lizenzentgelte - Einheit  
License Fee - Unit

## Terminal Block

Type Designation	:	ML-2300-xP-y	5
		x = 2 to 40	1
		y = max. 15 digit(s) or blank	1
		Dashes are optional	

Number of Poles (x) : 2 to 40  
Rated Voltage : AC/DC 300V, 50/60Hz (see Appendix 1)  
AC/DC 200V, 50/60Hz (see Appendix 1)  
Rated Current : 5A  
Rated Withstand Impulse Voltage : AC 4000V  
Overvoltage Category : III  
Pollution Degree : 2 or 3 (see Appendix 1)  
IP Degree : IP00  
Upper/Lower Limit Temperature : 65°C/-20°C  
Max. Ambient Temperature at Rated Current : 55°C

7

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.



Zertifizierungsstelle

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

Dipl.-Ing. M. Geiser

# Zertifikat

mit überwachter Konformität *of surveyed conformity*

# Certificate



Zertifikat Nr. *Certificate No.*  
J 50097528

Blatt *Page*  
0002

Ihr Zeichen *Client Reference*  
ML-2300-1

Unser Zeichen *Our Reference*  
ZJL-CDR- 12014788 001

Ausstellungsdatum  
19.12.2006

*Date of Issue*  
(day/month/year)

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*

Geprüft nach *Tested acc. to*



EN 60947-7-1:2002

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

Lizenzentgelte - Einheit  
*License Fee - Unit*

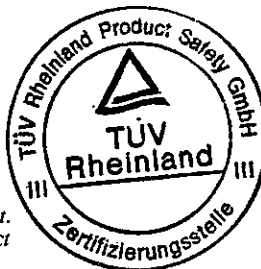
Terminal Block

Addition

Factory : (see above)

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.  
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.  
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fulfills above-mentioned requirements, the production is subject to surveillance.

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



Zertifizierungsstelle

Dipl.-Ing. M. Geiser

# Zertifikat

mit überwachter Konformität

# Certificate

of surveyed conformity



Zertifikat Nr. *Certificate No.*  
J 50097528

Blatt *Page*  
0003

Ihr Zeichen *Client Reference*  
ML-2300-3

Unser Zeichen *Our Reference*  
ZJL-MAS- 12014788 003

Ausstellungsdatum  
28.06.2007

*Date of Issue*  
(day/mo/yr)

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*

Geprüft nach *Tested acc. to*



EN 60947-7-1:2002

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

Lizenzentgelte - Einheit  
*License Fee - Unit*

Terminal Block

Addition

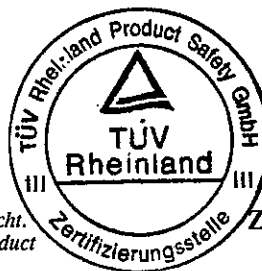
Type Designation : ML-2300-w-xP-y  
w = H, L or blank

1

1

ANLAGE (Appendix): 1.1

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.



Zertifizierungsstelle

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

Dipl.-Ing. M. Geiser

**Zertifikat** *Certificate*  
mit überwachter Konformität *of surveyed conformity*



Zertifikat Nr. *Certificate No.*  
J 50097528

Blatt *Page*  
0004

Ihr Zeichen *Client Reference*  
--

Unser Zeichen *Our Reference*  
ZJL-MIU- 12014788 006

Ausstellungsdatum  
01.06.2012

*Date of Issue*  
(day/month/year)

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*

Geprüft nach *Tested acc. to*

EN 60947-7-1:2009



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

Lizenzentgelte - Einheit  
*License Fee - Unit*

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.



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

**Zertifikat**      **Certificate**  
mit überwachter Konformität of surveyed conformity



Zertifikat Nr. Certificate No.  
J 50097528

Blatt Page  
0005

Ihr Zeichen Client Reference  
FACH-NGT

Unser Zeichen Our Reference  
ZJL-MAA- 12014788 007

Ausstellungsdatum  
30.04.2015

Date of Issue  
(day/mo/yr)

**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**

Geprüft nach Tested acc. to



EN 60947-7-1:2009

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

**Lizenzentgelte - Einheit**  
**License Fee - Unit**

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.



**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**

**Zertifikat** *Certificate*  
mit überwachter Konformität *of surveyed conformity*



Zertifikat Nr. *Certificate No.*  
J 50097528

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0006

Ihr Zeichen *Client Reference*  
TUV-ADD-CH

Unser Zeichen *Our Reference*  
ZJL-MAA- 12014788 007

Ausstellungsdatum  
27.09.2016

*Date of Issue*  
(day/mo/yr)

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*

Geprüft nach *Tested acc. to*



EN 60947-7-1:2009

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

Lizenzentgelte - Einheit  
*License Fee - Unit*

Terminal Block, as page 0001

Change

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

changed to: (see above)



**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.

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**

**Zertifikat**      **Certificate**  
mit überwachter Konformität *of surveyed conformity*



Zertifikat Nr. *Certificate No.*  
J 50097528

Blatt *Page*  
0007

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	<i>Date of Issue</i> (day/mo/yr)
Factory-Del-Kasukabe	ZJL-MAA- 12014788 007	27.01.2017	

**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***

**Geprüft nach *Tested acc. to***



EN 60947-7-1:2009

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

**Lizenzentgelte - Einheit**  
***License Fee - Unit***

Terminal Block, as page 0001

Change

Factory: Sato Parts Co., Ltd.  
Kasukabe Factory  
8-4 Minami-Sakae-cho  
Kasukabe-shi, Saitama  
344-0057 JAPAN

withdrawn

Remark: Replaces J 50097528 page 0007, dated 17.01.2017.



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

**Zertifikat** *Certificate*  
mit überwachter Konformität *of surveyed conformity*



Zertifikat Nr. *Certificate No.*  
J 50097528

Blatt *Page*  
0008

Ihr Zeichen *Client Reference*  
ADD-CH

Unser Zeichen *Our Reference*  
ZJL-MAA- 12014788 007

Ausstellungsdatum  
27.02.2020

*Date of Issue*  
(day/month/year)

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*

Geprüft nach *Tested acc. to*

EN 60947-7-1:2009



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

Lizenzentgelte - Einheit  
*License Fee - Unit*

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)



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

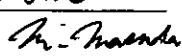


**Constructional Data Form**

Page 1/2

Licenseholder : **Sato Parts Co., Ltd.**  
 3-3-3 Ebisu, Shibuya-ku, Tokyo 150-0013 Japan  
 Factory : **1. Sato Parts Co., Ltd. Kasukabe Factory**  
 (full address) 8-4 Minami-sakae-chou, KASUKABE-SHI, SAITAMA 344-0057 Japan  
**2. Niigata Sato Parts Co., Ltd**  
 2255-2 -Torigoe, Nagaoka-shi, Niigata 940-2316 Japan.  
 Type or Model Number : ML-2300 series  
 Kind of device: Terminal Block

Specifications	
Type designation	ML-2300 series
Contact material	Copper Alloy (Plated)
Number of poles	2 to 40
Rated voltage	AC/DC 300V (Pollution degree 2 without spacer) AC/DC 300V (Pollution degree 3 with spacer) AC/DC 200V (Pollution degree 3 without spacer)
Rated current	5A
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)	$\geq 3.3 / \geq 2.9$ mm (Without spacer) $\geq 5.3 / \geq 4.9$ mm (With spacer)
Upper limit temperature	65°C
Lower limit temperature	-20°C
Max. ambient temp. at rated current	55°C
IP code	00
Classification	<input type="checkbox"/> CBC <input checked="" type="checkbox"/> NCB

Köln, den 07. June 18  
  
**TÜV Rheinland**  
 Product Safety GmbH

Ebisu

2007- 6-15

(Place)

(Date)

SATO PARTS Co., Ltd

M.Kosho

(Stamp and Signature of Applicant)

## Constructional Data Form

Page 2/2

Specifications (terminals)	
Type of terminals	<input type="checkbox"/> WRAPPED CONNECTION <input type="checkbox"/> CRIMPED CONNECTION <input type="checkbox"/> CLIP CONNECTION <input type="checkbox"/> PRESS-IN CONNECTIONS <input type="checkbox"/> INSULATION DISPLACEMENT CONNECTION <input checked="" type="checkbox"/> SCREWLESS TERMINALS <input type="checkbox"/> SCREW TERMINALS <input type="checkbox"/> FLAT, QUICK CONNECT TERMINATIONS <input checked="" type="checkbox"/> SOLDER TERMINALS <input type="checkbox"/> other:
Terminal designation	N/A
Spec. Tightening torque	N/A
Rated cross section of conductor	For flexible conductor: 0.2 mm <sup>2</sup> ~ 0.75 mm <sup>2</sup> (AWG24 ~ 20) For rigid conductor: Ø0.4 mm ~ Ø1.2 mm (AWG26 ~ 16)
Kind of conductor	Flexible / rigid
Required preparation of the conductor	N/A
Max. Stripping length	8.5 mm
Max. Number of conductors per Terminal	1

Materials	
Parts' Name	Material
Housing	Polyamide, Type 66 Nylon R/C plastic (QMFZ2), File No. : E48133 UBE INDUSTRIES LTD., Type 2015SV, any color, UL94V-0(0.5 mm, Min), RTI : 65°C, CTI : 0 (PLC)
End plate	
Spacer	
Release button	PPEP, Polyphenylene ether(Polyphenylene oxide, PPHOX) R/C plastic(QMFZ2), File No. : E41179 MITSUBISHI ENGINEERING-PLASTICS CORP. Type AN60, any color, UL94V-0, RTI : 105°C, CTI : 3(PLC)
Spring	One provided per pole. Stainless steel, 5.61 by 5.80 by 2.7 mm overall, 0.25 mm thick. Secured to wire terminal by one notch.
Wire terminal	Copper alloy (Plated)

### TYPE NOMENCLATURE:

Example : ML-2300 — w — xP — y

ML-2300 — Basic construction (Model No.)

w — Height of Wire Release (normal type) : Blank or L  
 (Height type) : H

x — Number of poles : 2 to 40

y — Suffix : Blank or maximum 15 digit(s) numbers(1 to 9) and/or letter (A to Z and/or a to z) .  
 Specified drawing number that denote specified color of the body and/or specified type with spacers (as described in specifications line 14 (Creepage / Clearance distance))

Note : Dashes are optional.

Köln, den 10. June 18  
J. Hasoda  
**TÜV Rheinland**  
 Product Safety GmbH

Ebisu

(Place)

2007- 6-15

(Date)

SATO PARTS Co., Ltd

M.Kosho

(Stamp and Signature of Applicant)

# 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)

Signature: D. Sato

(サイン)

Ref. No.: \_\_\_\_\_

Date: 2012/11/9

Page: 1/1

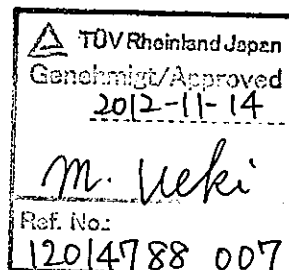
Product (製品名) : TERMINAL BLOCK

Type designation (型式) : ML-2300 series

Report No.: \_\_\_\_\_

License No.: J 50097528

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	Polyamide, Type 66 Nylon	Housing	Polyamide, Type 66 Nylon
End plate		End plate	
Spacer		Spacer	
	R/C plastic (QMFZ2) , File No.:E48133 UBE INDUSTRIES LTD., Type 2015SV, any color, UL94V-0(0.5mm, Nin), RTI: 65°C ,CTI:0(PLC)		R/C plastic (QMFZ2) , File No.:E48133 UBE INDUSTRIES LTD., Type 2015SV, any color, UL94V-0(0.5mm, Nin), RTI: 65°C ,CTI:0(PLC)
	R/C plastic (QMFZ2) , File No.:E48133 UBE INDUSTRIES LTD., Type 2015SE, any color, UL94V-0(0.5mm, Min), RTI: 65°C ,CTI:0(PLC)		R/C plastic (QMFZ2) , File No.:E48133 UBE INDUSTRIES LTD., Type 2015SE, any color, UL94V-0(0.5mm, Min), RTI: 65°C ,CTI:0(PLC)
	R/C plastic (QMFZ2) , File No.:E48285 ASAHI KASEI CHEMICALS CORP., Type FR370, any color, UL94V-0(0.5mm, Min), RTI:95°C ,CTI:0(PLC)		R/C plastic (QMFZ2) , File No.:E48285 ASAHI KASEI CHEMICALS CORP., Type FR370, any color, UL94V-0(0.5mm, Min), RTI:95°C ,CTI:0(PLC)
			Alternate: R/C plastic (QMFZ2) , File No.:E245249 LANXESS AG, Type A30SFN31, any color, UL94V-0(0.5mm, Min), RTI:125°C ,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)をお願いします。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  
(サイン)

Ref. No.: ZJL-MAS-12014788 003


Page: 1/1

Product (製品名) : TERMINAL BLOCK

Type designation (型式) : ML-2300 series

Report No.: 12014788 005

License No.: J 50097528

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	<b>Polyamide, Type 66 Nylon</b>	Housing	<b>Polyamide, Type 66 Nylon</b>
End plate	R/C plastic (QMFZ2) , File No.:E48133	End plate	
Spacer	UBE INDUSTRIES LTD., Type 2015SV, any color, UL94V-0(0.5mm, Nin), RTI: 65°C, CTI:0(PLC)	Spacer	R/C plastic (QMFZ2) , File No.:E48133 UBE INDUSTRIES LTD., Type 2015SV, any color, UL94V-0(0.5mm, Nin), RTI: 65°C, CTI:0(PLC) <u>Alternate:</u> R/C plastic (QMFZ2) , File No.:E48133 UBE INDUSTRIES LTD., Type 2015SE, any color, UL94V-0(0.5mm, Min), RTI: 65°C, CTI:0(PLC)
Release button	PPEP, Polyphenylene ether(Polyphenylene oxide, PPHOX) R/C plastic(QMFZ2), File No.: E41179 MITSUBISHI ENGINEERING-PLASTICS CORP.Type AN60, any color, UL94V-0, RTI:105°C, CTI:3(PLC)		R/C plastic (QMFZ2) , File No.:E48285 ASAHI KASEI CHEMICALS CORP., Type FR370, any color, UL94V-0(0.5mm, Min), RTI:95°C, CTI:0(PLC)
Spring	One provided per pole. Stainless steel, 5.61 by 5.80 by 2.7mm overall, 0.25mm thick. Secured to wire terminal by one notch.		
Wire terminal	Copper alloy (Plated)		
<div style="border: 1px solid black; padding: 5px; text-align: center;">  TÜV Rheinland Japan Genehmigt/Approved <i>6. Oct. 2009</i> <i>M. Ueki</i> Ref. No.: <i>12014788 005</i> </div>		Release button	<b>PPEP, Polyphenylene ether(Polyphenylene oxide, PPHOX)</b> R/C plastic(QMFZ2), File No.: E41179 MITSUBISHI ENGINEERING-PLASTICS CORP.Type AN60, any color, UL94V-0, RTI:105°C, CTI:3(PLC) <u>Alternate:</u> R/C plastic(QMFZ2), File No.: E41179 MITSUBISHI ENGINEERING-PLASTICS CORP.Type LN60, any color, UL94V-0, RTI:65°C, CTI:0(PLC)
		Spring	One provided per pole. Stainless steel, 5.61 by 5.80 by 2.7mm overall, 0.25mm thick. Secured to wire terminal by one notch.
		Wire terminal	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)をお願いします。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) : SATOPARTS CO., LTD.

Date: 2007-10-5

Signature: *M. J. R.*  
(サイン)

Ref. No.: \_\_\_\_\_

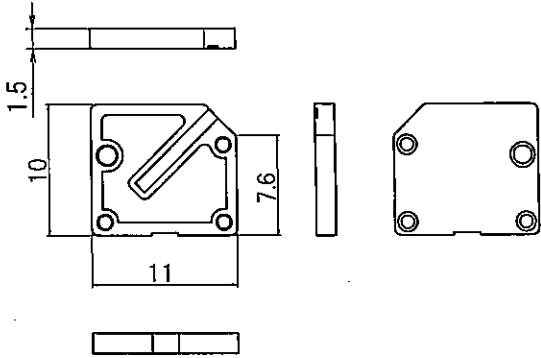
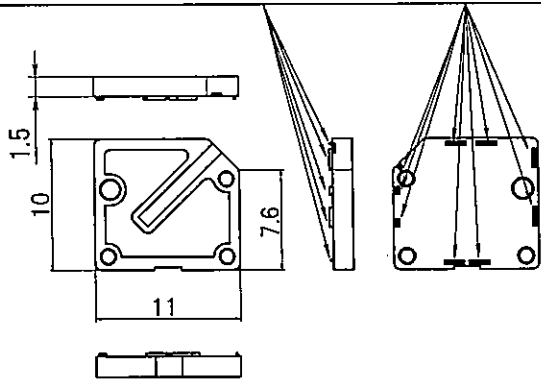
Page: \_\_\_\_\_

Product (製品名) : TERMINAL BLOCKS

Type designation (型式) : ML-2300

Report No.: \_\_\_\_\_

License No.: J-50097528

Methods (Design / Component) Presently Employed (変更前：現行)	Alteration/Modification to be Introduced (変更後)
<p>Original end plate has only four holes to set with adjacent base .</p>  <div data-bbox="907 1133 1198 1404" style="border: 1px solid black; padding: 5px;"> <p>TÜV Rheinland Japan Product Safety Dept Genehmigt/Approved <i>ML-2</i> 13 NOV, 2007 Rep. No.: 12014788 004</p> </div>	<p>Added with four holes, optional end plate has several protuberances on the back side that intend to welding to fix with adjacent base by supersonic waves. (Small protuberances could be made at any position and any shape.)</p> <div data-bbox="1265 901 2016 965" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Example of protuberances for welding</p> </div> 

● 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）をお願いします。

# NOTICE OF ALTERATIONS/MODIFICATION ( 変更通知 )

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

Date: 2007-6-1

Signature: *M. Masuda*  
(サイン)

Ref. No.: \_\_\_\_\_

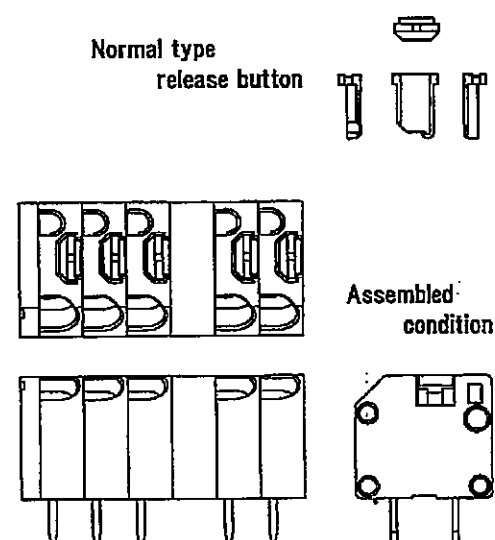
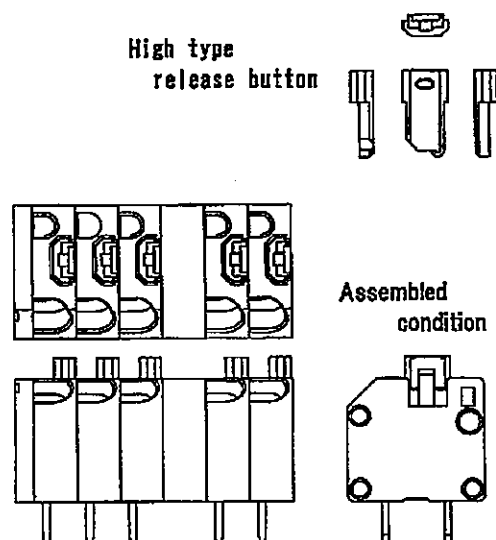
Page: \_\_\_\_\_

Product (製品名) : TERMINAL BLOCK

Type designation (型式) : ML-2300

Report No.: \_\_\_\_\_

License No.: J50097528

Methods (Design / Component) Presently Employed (変更前: 現行)	Alteration/Modification to be Introduced (変更後)
<p style="text-align: center;">Normal type release button</p>  <p style="text-align: center;">Assembled condition</p> <p style="text-align: center;">Top of the normal type buton are on a level with the upper surface of ML-2300</p>	<p style="text-align: center;">High type release button</p>  <p style="text-align: center;">Assembled condition</p> <p style="text-align: center;">High type buton are sticking out from the upper surface of ML-2300</p>

TÜV Rheinland Japan  
Product Safety Dept  
Genehmigt/Approved  
*27 June 18*  
*M. Masuda*

Rep. No.:  
*12014788 003*

● 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)をお願いします。

# NOTICE OF ALTERATIONS/MODIFICATION (変更通知)

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

Date: 2007/3/1

Signature: [Signature]  
(サイン)

Ref. No.: \_\_\_\_\_

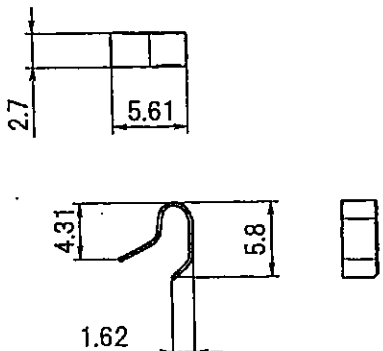
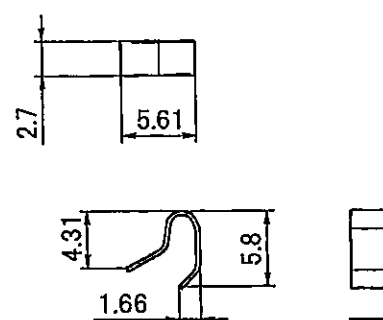
Page: 1/1

Product (製品名): Terminal blocks

Type designation (型式): ML-2300

Report No.: \_\_\_\_\_

License No.: J-50097528

Methods (Design / Component) Presently Employed (変更前: 現行)	Alteration/Modification to be Introduced (変更後)
<p>Thickness of spring employed ML-2300 is 0.25mm.</p>  <p>Spring t=0.25mm</p>	<p>The thickness change to 0.3mm. Optional</p>  <p>Spring t=0.3mm</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>TÜV Rheinland Japan Product Safety Dept Genehmigt/Approved Per. 7107 <u>[Signature]</u> Rep. No.: 12014788-002</p> </div>

● 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)をお願いします。

# 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 1

Product (製品名): Terminal Block Type designation (型式): ML-2300-w-xP-y

Report No.: 12014788 008 License No.: J 50097528

Methods (Design / Component) Presently Employed (変更前 : 現行)		Alteration/Modification to be introduced (変更後)	
Insulating Materials		Insulating Materials	
Parts Name	Material	Parts Name	Material
Housing End Plate Spacer	Polyamide, Type 66 Nylon	Housing End Plate Spacer	Polyamide, Type 66 Nylon
	R/C plastic (QMFZ2), File No. E48133 UBE INDUSTRIES LTD., Type 2015SV, any color, UL94V-0 (0.5mm, Min), RTI: 65°C, CTI: 0 (PLC)		R/C plastic (QMFZ2), File No. E48285 ASAHI KASEI CORP., Type FR370, any color, UL94V-0 (0.5mm, Min), RTI: 95°C, CTI: 0 (PLC)
	R/C plastic (QMFZ2), File No. E48133 UBE INDUSTRIES LTD., Type 2015SE, any color, UL94V-0 (0.5mm, Min), RTI: 65°C, CTI: 0 (PLC)		R/C plastic (QMFZ2), File No. E245249 LANXESS AG, Type A30SFN31, any color, UL94V-0 (0.5mm, Min), RTI: 125°C, CTI: 0 (PLC)
	R/C plastic (QMFZ2), File No. E48285 ASAHI KASEI CHEMICALS CORP., Type FR370, any color, UL94V-0 (0.5mm, Min), RTI: 95°C, CTI: 0 (PLC)		
	<u>Alternate:</u> R/C plastic (QMFZ2), File No. E245249 LANXESS AG, Type A30SFN31, any color, UL94V-0 (0.5mm, Min), RTI: 125°C, CTI: 0 (PLC)		
Release button	PPEP: Polyphenylene ether (Polyphenylene oxide, PPHOX)	Release button	Polyphenylene Ether / Polystyrene (PPE / PS)
	R/C plastic (QMFZ2), File No. E41179 MITSUBISHI ENGINEERING-PLASTICS CORP., Type AN60, any color, UL94V-0, RTI: 105°C, CTI: 3 (PLC)		R/C plastic (QMFZ2), File No. E167806 GLOBAL POLYACETAL CO., LTD., Type LN60, any color, UL94V-0, RTI: 65°C, CTI: 0 (PLC)
	<u>Alternate:</u> R/C plastic (QMFZ2), File No. E41179 MITSUBISHI ENGINEERING-PLASTICS CORP., Type LN60, any color, UL94V-0, RTI: 65°C, CTI: 0 (PLC)		

2024-01-30

Genehmigt/Approved

Rep. No.:

12014788 008  
(150285568)

2024-01-30

Rep. No.:

12014788 008  
(150285568)

 TÜV Rheinland Japan

Genehmigt/Approved

2024-01-30



Rep. No.:  
12014788 008  
(150285568)

● 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。