Zertifikat *Certificate*

mit überwachter Konformität *of surveyed conformity*

TÜV

Zertifikat Nr. *Certificate No.*
J 9950831

Blatt *Page*
01

Ihr Zeichen *Client Reference*	**Unser Zeichen** *Our Reference*	**Ausstellungsdatum** *Date of Issue (day/mo/yr)*
ML-1800-1	00042- NA/sot E9961415E01	21.09.99

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, Mishima-machi
Santo-gun, Niigata 940-2316
JAPAN

TÜV Rheinland

Geprüft nach *Tested Acc. to*
EN 60947-1:1997+A1+A2
EN 60947-7-1:1991+A11

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

Terminal Block

Type Designation : ML-1800 xyP	5
x = 0-9, A-Z and/or blank (see Appendix 1)	1
y = 02 to 200 (number of poles)	1

Rated Current : 10A
Rated Voltage: Pollution Degree:
250V 3
300V 2 or
3 with 2.5mm/5mm spacing piece
Overvoltage Category: III
Rated Impulse
Withstand Voltage : 4kV
Creepage Distance : 3.2mm (5.7mm with spacing piece)
Clearance : 3.2mm (5.7mm with spacing piece)
Rated Ambient Temp. : -20 to +50°C
Rated Cross Section : 0.3mm² to 1.65mm²(AWG22 to AWG14)

Remark: Screwless and solder terminal.
Remark: Replaces J 9950831 page 01, dated 07.09.99

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
TÜV Rheinland
Zertifizierungsstelle

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

Dipl.-Ing. M. Borgmann

Zertifikat
mit überwachter Konformität

Certificate
of surveyed conformity

TÜV

Zertifikat Nr. *Certificate No.*
J 9950831

Blatt *Page*
02

Ihr Zeichen *Client Reference*	Unser Zeichen *Our Reference*	Ausstellungsdatum	*Date of Issue (day/mo/yr)*
ML-1800-2	ZO-BWE- 09961415 002	01.07.2003	

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, Mishima-machi
Santo-gun, 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*

Terminal Block

Change

Test Requirements : EN 60947-1:1997+A1+A2
EN 60947-7-1:1991+A11

changed to : (see above)

Addition

Type Designation : ML-1800TxyPz 1
x, y, z = (see Appendix 1.1) 1
(Terminals with half pitch offset)

Remark : EN 60947-1 removed since included in EN 60947-7-1.

2

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.

TÜV Rheinland Product Safety GmbH — TÜV Rheinland — Zertifizierungsstelle

Zertifizierungsstelle

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

Dipl.-Ing. W. Nölke

Zertifikat *Certificate*

mit überwachter Konformität *of surveyed conformity*

TÜVRheinland®

Zertifikat Nr. *Certificate No.*	**Blatt** *Page*
J 9950831	03

Ihr Zeichen *Client Reference*	**Unser Zeichen** *Our Reference*	**Ausstellungsdatum**	*Date of Issue (day/mo/yr)*
--	ZJL-MIU- 09961415 004	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) — *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.

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

Zertifikat *Certificate*

mit überwachter Konformität *of surveyed conformity*

TÜVRheinland®

Zertifikat Nr. *Certificate No.*	**Blatt** *Page*
J 9950831	04

Ihr Zeichen *Client Reference*	**Unser Zeichen** *Our Reference*	**Ausstellungsdatum**	*Date of Issue (day/mo/yr)*
FACH-NGT	ZJL-MAA- 09961415 005	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) *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)

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

Zertifikat *Certificate*

mit überwachter Konformität *of surveyed conformity*

TÜVRheinland®

Zertifikat Nr. *Certificate No.*	**Blatt** *Page*
J 9950831	05

Ihr Zeichen *Client Reference*	**Unser Zeichen** *Our Reference*	**Ausstellungsdatum**	*Date of Issue (day/mo/yr)*
TUV-ADD-CH	ZJL-MAA- 09961415 005	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*

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 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

Zertifikat *Certificate*

mit überwachter Konformität *of surveyed conformity*

TÜVRheinland®

Zertifikat Nr. *Certificate No.*	**Blatt** *Page*
J 9950831	06

Ihr Zeichen *Client Reference*	**Unser Zeichen** *Our Reference*	**Ausstellungsdatum**	*Date of Issue (day/mo/yr)*
ADD-CH	ZJL-MAA- 09961415 005	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)
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)

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

Produktsicherheit und – qualität Product Safety and Quality	Certificate No.: J 9950831 Our reference: 0 9961415 002 Appendix No.: 1.1 (To be filled in by TÜV Rheinland)	TÜV Rheinland Berlin Brandenburg

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、mishima-machi、Santo-gun、Niigata 940-2316 Japan

Type or Model Number : ML-1800 series

Kind of device: Terminal Block

Specifications	
Type designation	ML-1800 series
Type of terminals	
Rated cross section of conductor	AWG22 – AWG14
Kind of conductor	rigid
max. Stripping length	
max. Number of conductors per terminal	1
Number of poles	2 to 200
Rated voltage	300V (Pollution Degree 2 without Spacing Piece) 250V (Pollution Degree 3 without Spacing Piece) 300V (Pollution Degree 3 with 2.5mm Spacing Piece) 300V (Pollution Degree 3 with 5mm Spacing Piece)
Rated impulse withstand voltage	4000V
Rated current	10A
Overvoltage category	III
Pollution degree	2 or 3
Upper limit temperature	+50℃
Lower limit temperature	-20℃
IP code	IP00

Köln, den 17. 6. 2003

TÜV Rheinland
Product Safety GmbH

Ebisu (Place)

03.06.2003 (Date)

SATO PARTS Co.,Ltd. M.Kosho

(Stamp and Signature of Applicant)

Produktsicherheit und – qualität Product Safety and Quality	Certificate No.: J 9950831 Our reference: 0 9961415 002 Appendix No.: 1.1 (To be filled in by TÜV Rheinland)	TÜV Rheinland Berlin Brandenburg

Constructional Data Form

Insulating Materials			
Part	**Material**	Type designation / Manufacturer	**Material group**
Base material	Polyamide, Type 66 Nylon	2015SV / UBE Industries Ltd	I
Wire Release	Polyphenylene Oxide	AN60+ / Mitsubishi Engineering-Plastics Corp	I

TYPE NOMENCLATURE:

ML-1800 w x yP z

ML-1800— Basic Construction (Model No.)

w— The mutual position between terminals:
Blank— terminals stands in line
T—terminals stands half pitch staggered.

x— Thickness of Spacing Piece:
S1—no spacing piece
S2—2.5mm Spacing Piece
S3—5.0mm Spacing Piece

y — Number of poles: 2 to 200

z — Blank or maximum 15digit(s) number and/or letters ~~such as drawing numbers.~~ without technical relevance.
~~Example: Specified drawing number that denote color variations of the base.~~

Köln, den 17.6.03

TÜV Rheinland
Product Safety GmbH

Ebisu (Place)

03.06.2003 (Date)

SATO PARTS Co.,Ltd. M.Kosho

(Stamp and Signature of Applicant)

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

Certificate No.: ~~R~~ 9950831
Our reference: 0143-NA/yy-E9961415E01
Appendix No.: 1

(To be filled in by TÜV Rheinland)

TÜV Rheinland
COMPONENTS

Constructional Data Form for Termminal Block

Applicant: Sato Parts Co., Ltd.
Full Address: 3-3-3 Ebisu, Shibuya-ku, Tokyo 150-0013 Japan

Factory: Niigata Sato Parts Co., Ltd.
Full Address: 2255-2 Torigoe, Mishima-machi, Santo-gun, Niigata 940-2316 Japan

1.2	**Mark of Origin**	: **SATO PARTS**
1.3	**Type designation**	: **ML-1800 series** (see nomenclature page 3/10)
1.5	**Protection degree**	: **IP 00**
1.6	**Number of terminals**	: **Number of terminals variable (2 to 200)**
1.7	**Rated connecting capacity**	: **AWG 14 to AWG 22 (rigid)**
1.8	**Ambient air temperature range**	: **-20℃ to +50℃**
1.9	**Material of housing** **Material of Wire Release**	: **Polyamide, Type 66 Nylon** : **Polyphenylene Oxide**
1.10	**Flammabilityclass of housing** **Sectional Block and End Plate** **Wire Release**	 : **Polyamide, 66Nylon, 94V-0, any color.** : **Polyphenylene, Oxide, 94V-2, 94V-1 or 94V-0, any color.**
1.11	**Material of contact** **Spring**	: **Plated Copper Alloy** : **Stainless Steel**
2.1	**Rated operational current**	: **10A**
2.2	**Rated operational voltage**	: **300V** (Pollution Degree 2 without Spacing Piece) : **250V** (Pollution Degree 3 without Spacing Piece) : **300V** (Pollution Degree 3 with 2.5 mm Spacing Piece) : **300V** (Pollution Degree 3 with 5 mm Spacing Piece)
2.3	**Rated impulse withstand voltage**	: **4000V**

Köln, den 24.08.1999
TÜV Rheinland
Product Safety GmbH

Ebisu
(Place)

18. 08. 1999
(Date)

SATO PARTS Co., Ltd. K. Tsuge
(Stamp and Signature of Applicant)

3 Insulation coordination acc. to EN 60947-1

3.1 Pollution degree : **2 and 3**

3.2 Overvoltage category : **III**

3.3 Kriechstrecke / *creepage* :
Luftstrecke / *clearance distance* :
Kriechstromfestigkeit / *CTI value* : ≥ **600 (Insulation meterial I)**
zwischen / *between* :
Kontakten / *Contacts* :

Remark: *Clause 3.3 does not need to be filled in, if the Table below is used.*

Type designation	Creepage (mm)	Clearence (mm)
Upper terminal to Lower terminal	≥ 5.0	≥ 5.0
Between terminal assemblies ML-1800S1	3.2	3.2
ML-1800S2	5.7	5.7
ML-1800S3	8.2	8.2

3.4 Information regarding mounting etc.

Type designation	Mounting	Mounting Screw size	Tourque (Nm)
ML-1800S1	Mounting on PCB	Screwless terminal N/A	N/A
ML-1800S2	Mounting on PCB	N/A	N/A
ML-1800S3	Mounting on PCB	N/A	N/A

Operation instructions:

- **Number of conductor on each terminal assemblies is : 1**
- **Suitable installation has to be maintained by built-in conditions.**
- **Marking shall be provide in final conditions.**

Köln, den 24.08.1999
TÜV Rheinland
Product Safety GmbH

Ebisu (Place)
18.08.1999 (Date)

SATO PARTS Co., Ltd. K. Tsuge
(Stamp and Signature of Applicant)

3.5 Short-time withstand current and wire size

Type designation	Wire size AWG / mm^2	Short- time withstand current (A)
ML-1800 series	AWG 14 / 2.0 mm^2	240
	AWG 22 / 0.3 mm^2	36

3.6 Nomenclature (see below)

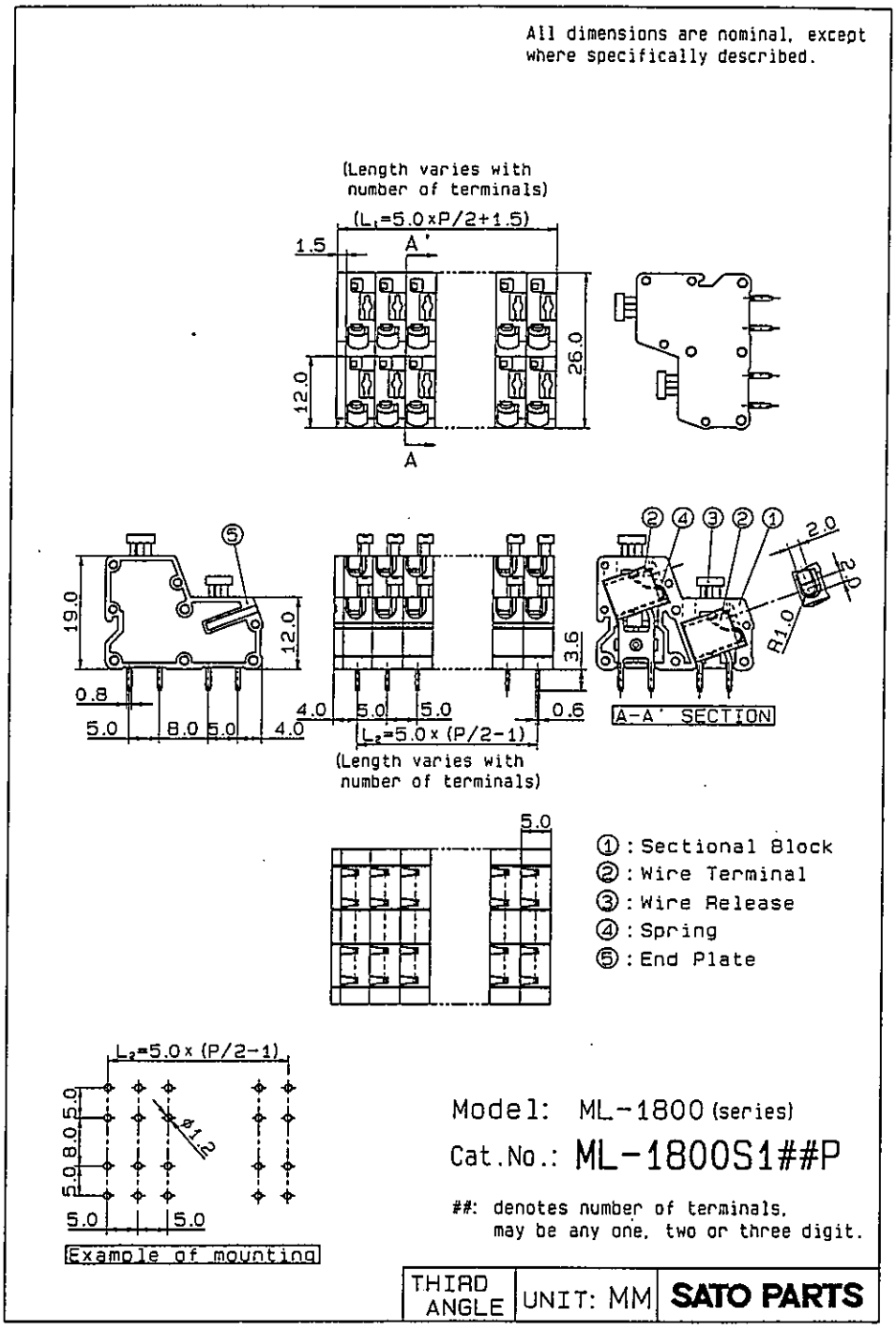
Example:

ML-1800 S1 14P
A B

A – Basic Constructuion
(Model No.)

B – Thickness of Spacing Piece
S1 – None
S2 – 2.5 mm Spacing Piece
S3 – 5.0 mm Spacing Piece
or Maximum nine digits number and/or letters, denote various kinds of combination with hight of wire release and number of poles. one, two or three digit number (2 to 200) were followed by "P".

Constructional Data Form for Termminal Block



Köln, den 24.08.1999

TÜV Rheinland
Product Safety GmbH

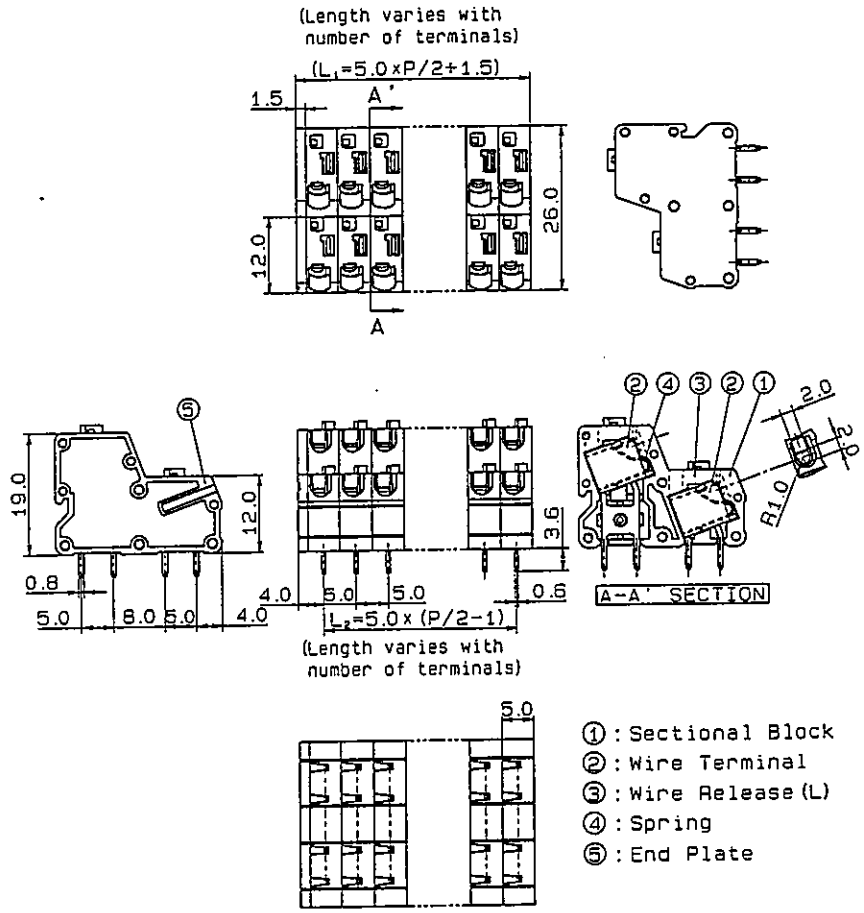
Ebisu
(Place)

18.08.1999
(Date)

SATO PARTS Co., Ltd. K.Tsuge
(Stamp and Signature of Applicant)

Constructional Data Form for Termminal Block

All dimensions are nominal, except where specifically described.



Model: ML-1800 (series)
Cat.No.: ML-1800S1L##P

##: denotes number of terminals, may be any one, two or three digit.

THIRD ANGLE	UNIT: MM	SATO PARTS

Köln, den 24.08.1999
TÜV Rheinland
Product Safety GmbH

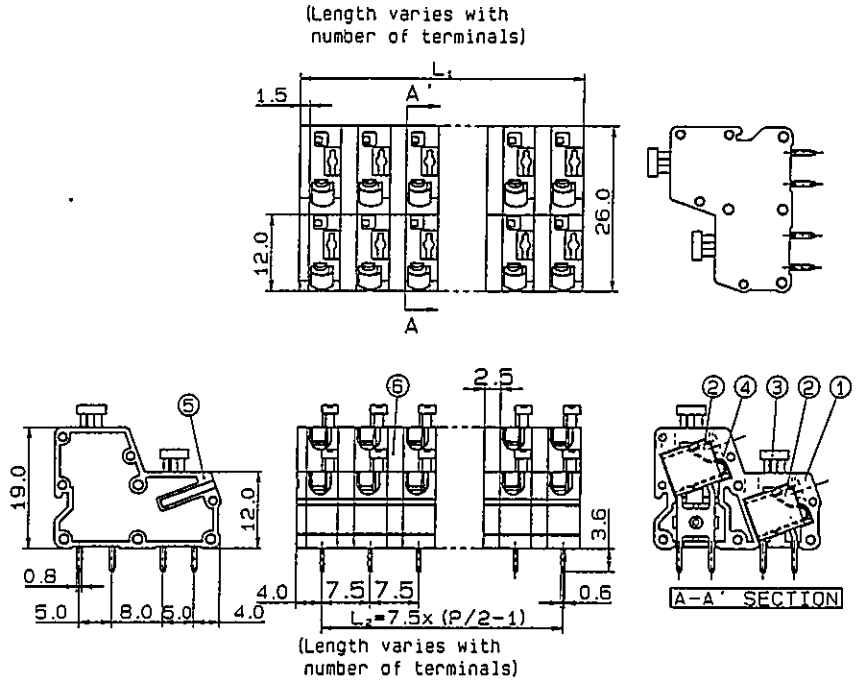
Ebisu
(Place)

18.08.1999
(Date)

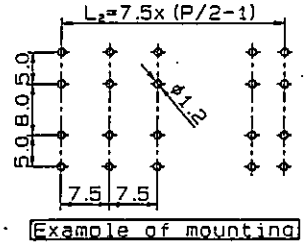
SATO PARTS Co., Ltd. K.Tsuge
(Stamp and Signature of Applicant)

Constructional Data Form for Termminal Block

All dimensions are nominal, except where specifically described.



① : Sectional Block
② : Wire Terminal
③ : Wire Release
④ : Spring
⑤ : End Plate
⑥ : Spacing Piece



Model: ML-1800 (series)
Cat.No.: ML-1800S2##P

##: denotes number of terminals, may be any one, two or three digit.

THIRD ANGLE	UNIT: MM	SATO PARTS

Köln, den 24.08.1999
TÜV Rheinland
Product Safety GmbH

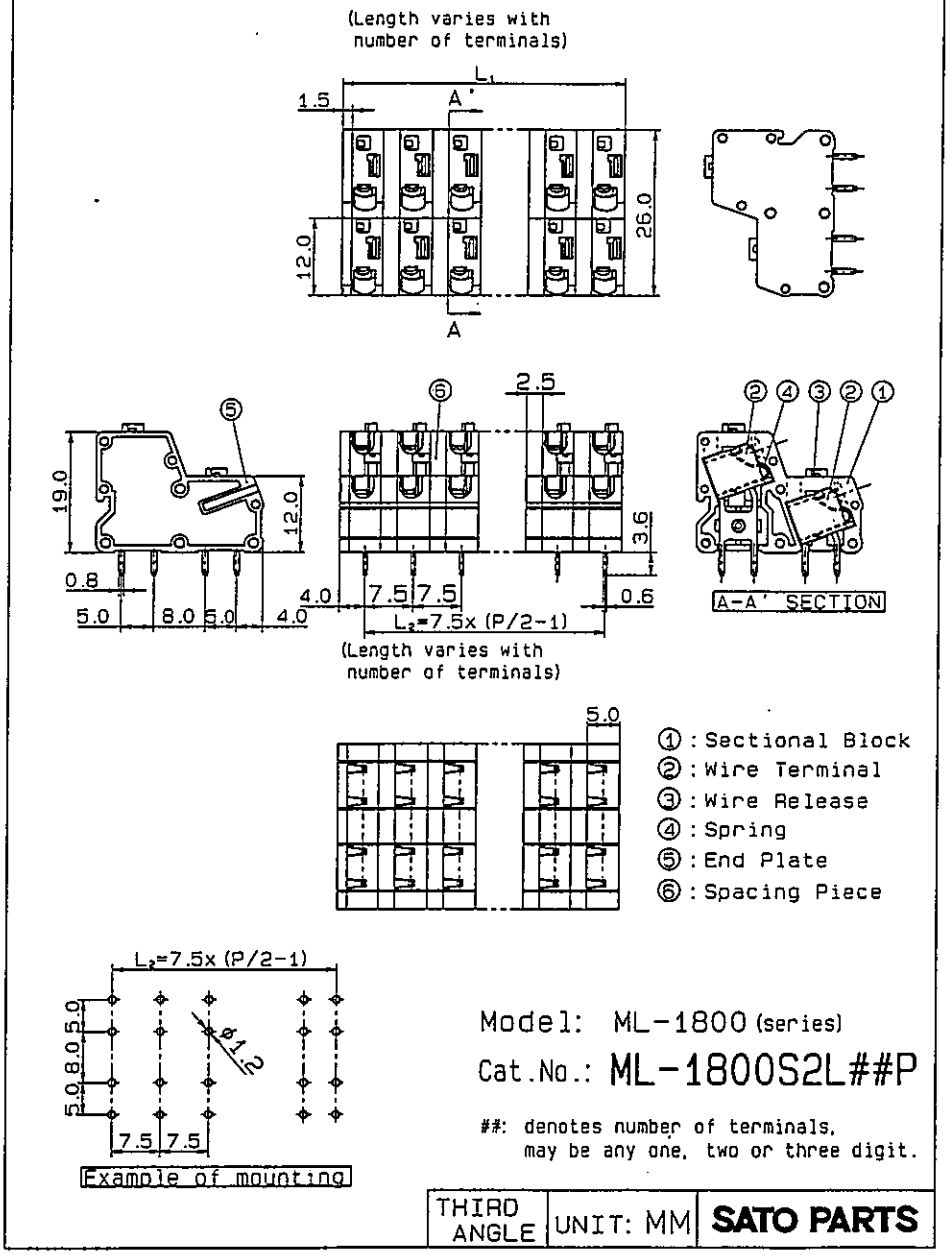
Ebisu
(Place)

18.08.1999
(Date)

SATO PARTS Co., Ltd. K. Tsuge
(Stamp and Signature of Applicant)

Constructional Data Form for Termminal Block

All dimensions are nominal, except where specifically described.



Model: ML-1800 (series)

Cat.No.: ML-1800S2L##P

##: denotes number of terminals, may be any one, two or three digit.

THIRD ANGLE	UNIT: MM	SATO PARTS

Köln, den 24.08.1999

TÜV Rheinland
Product Safety GmbH

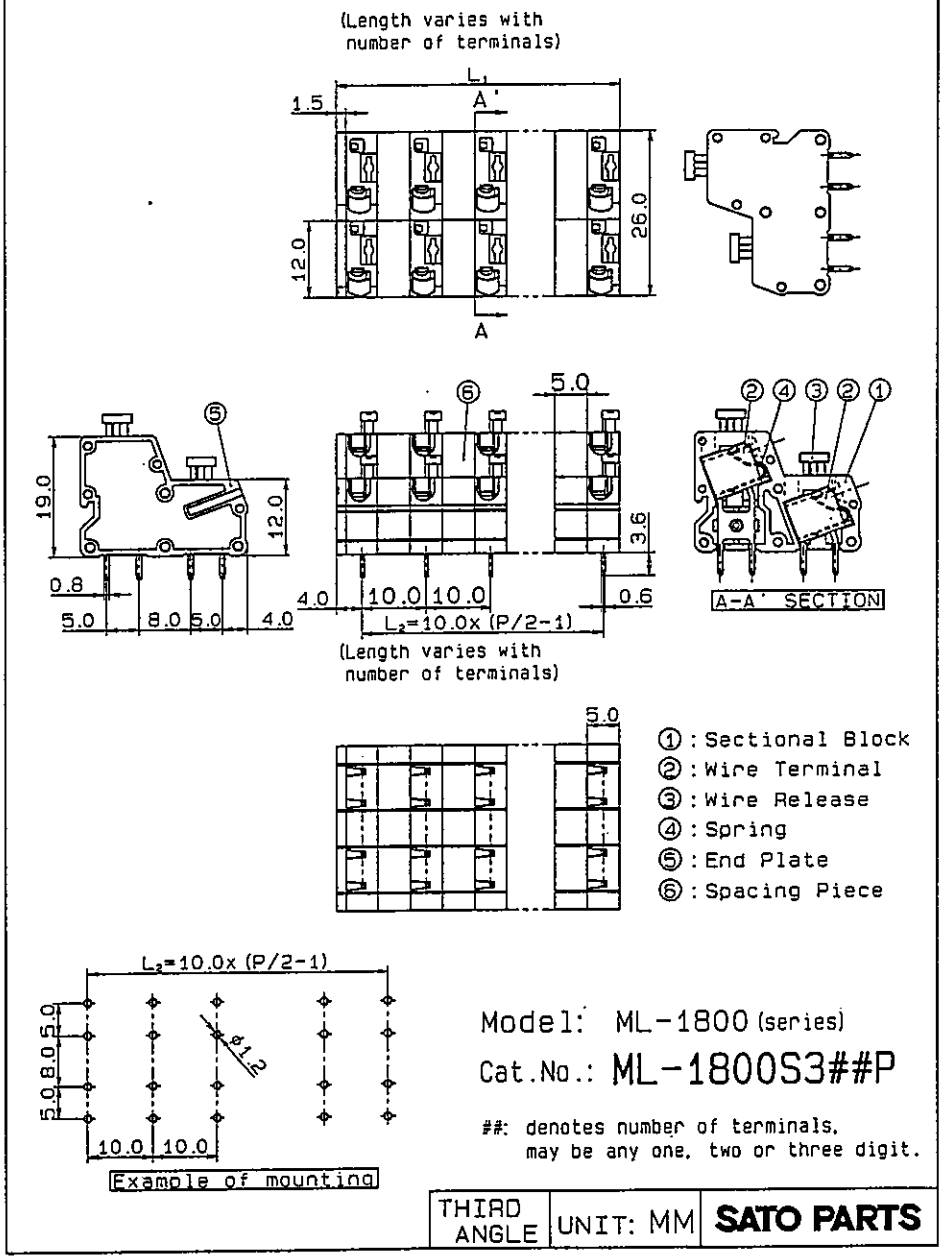
Ebisu
(Place)

18.08.1999
(Date)

SATO PARTS Co., Ltd. K.Tsuge
(Stamp and Signature of Applicant)

Constructional Data Form for Termminal Block

All dimensions are nominal, except where specifically described.



Model: ML-1800 (series)

Cat.No.: ML-1800S3##P

##: denotes number of terminals, may be any one, two or three digit.

THIRD ANGLE	UNIT: MM	SATO PARTS

Köln, den 24.08.1999

TÜV Rheinland
Product Safety GmbH

Ebisu
(Place)

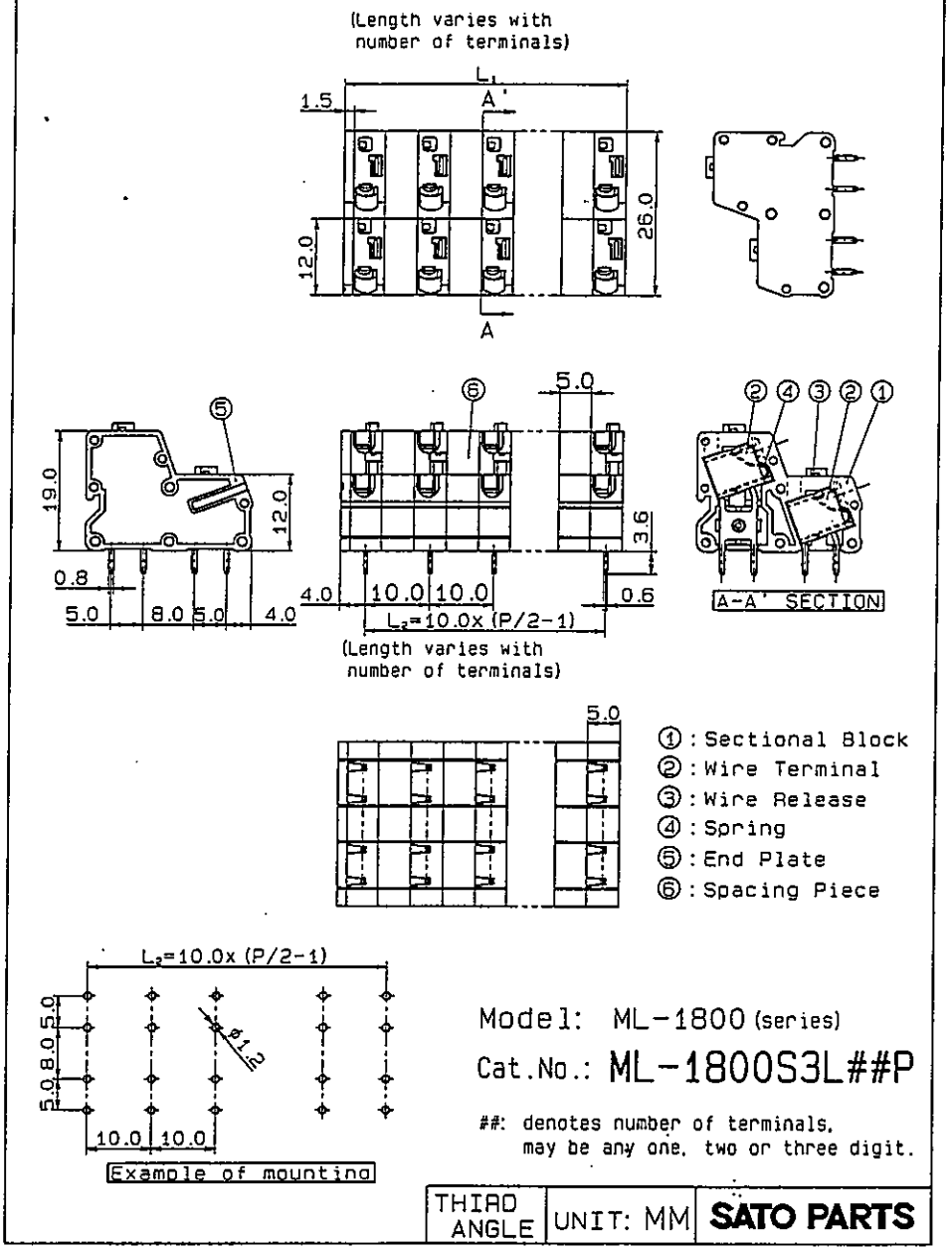
18.08.1999
(Date)

SATO PARTS Co., Ltd. K.Tsuge
(Stamp and Signature of Applicant)

K.Tsuge

Constructional Data Form for Termminal Block

All dimensions are nominal, except where specifically described.



Model: ML-1800 (series)

Cat.No.: ML-1800S3L##P

##: denotes number of terminals, may be any one, two or three digit.

THIRD ANGLE	UNIT: MM	SATO PARTS

Köln, den 24.08.1999

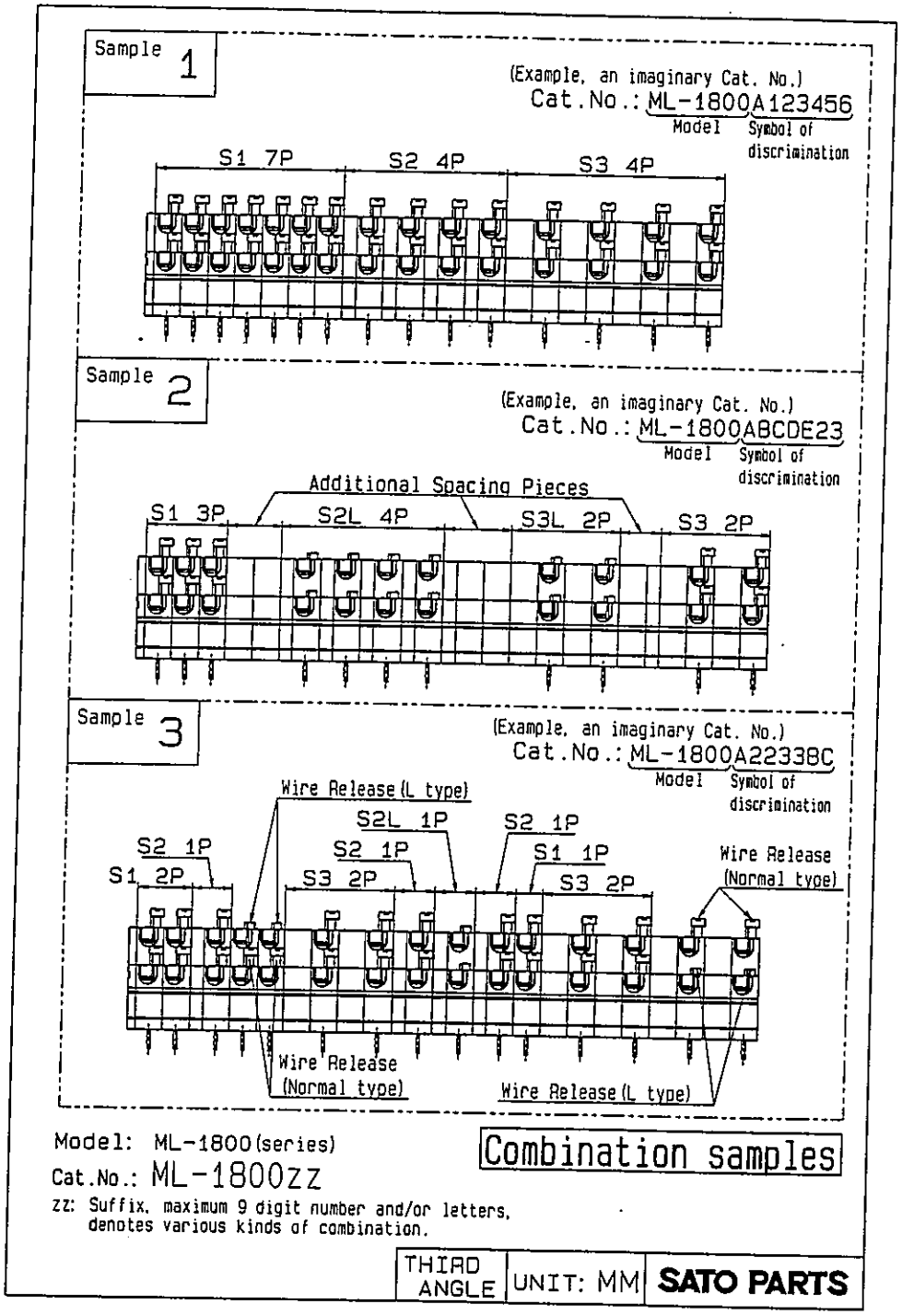
TÜV Rheinland
Product Safety GmbH

Ebisu
(Place)

18. 08. 1999
(Date)

SATO PARTS Co., Ltd. K. Tsuge
(Stamp and Signature of Applicant)

Constructional Data Form for Termminal Block



Köln, den 24. 08. 1999

TÜV Rheinland
Product Safety GmbH

Ebisu
(Place)

18. 08. 1999
(Date)

SATO PARTS Co., Ltd. K. Tsuge
(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)

Date: 2012/11/9

Signature: D. Sato (サイン)

Ref. No.:

Page: 1/1

Product（製品名）: TERMINAL BLOCK

Type designation（型式）: ML-1800 series

Report No.:

License No.: J 9950831

Methods (Design / Component) Presently Employed （変更前：現行）	Alteration/Modification to be Introduced （変更後）

Insulating Materials

Part	Material	Type designation / Manufacturer	Material group
Base material	Polyamide, Type 66 Nylon	2015SV / UBE Industries Ltd 2015SE / UBE Industries Ltd FR370 / Asahi Kasei Chemicals Corp	I

Insulating Materials

Part	Material	Type designation / Manufacturer	Material group
Base material	Polyamide, Type 66 Nylon	2015SV / UBE Industries Ltd 2015SE / UBE Industries Ltd FR370 / Asahi Kasei Chemicals Corp Alternate: A30SFN31 / LANXESS AG	I

TÜV Rheinland Japan
Genehmigt/Approved
2012-11-14
m. Ueki
Ref. No:
0996 1415 005

● 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.: 0 9961415 002　　Page: 1/1

(サイン)

Product（製品名）: TERMINAL BLOCK　　Type designation（型式）: ML-1800 series

Report No.: 09961415 003　　License No.: J 9950831

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

Insulating Materials

Part	Material	Type designation / Manufacturer	Material group
Base material	Polyamide, Type 66 Nylon	2015SV / UBE Industries Ltd	I
Wire Release	Polyphenylene Oxide	AN60+ / Mitsubishi Engineering-Plastics Corp	I

TÜV Rheinland Japan
Genehmigt/Approved
6 Oct. 2009
m. ueki
Ref. No.:
09961415 003

Alteration/Modification to be Introduced （変更後）

Insulating Materials

Part	Material	Type designation / Manufacturer	Material group
Base material	Polyamide, Type 66 Nylon	2015SV / UBE Industries Ltd Alternate: 2015SE / UBE Industries Ltd FR370 / Asahi Kasei Chemicals Corp	I
Wire Release	Polyphenylene Oxide	AN60+ / Mitsubishi Engineering-Plastics Corp Alternate: LN60+ / Mitsubishi Engineering-Plastics Corp	I

● 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: 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-1800wxyPz

Report No.: 09961415 006 License No.: J 9950831

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

Insulating Materials			
Part	Material	Type designation / Manufacturer	Material group
Base	Polyamide, Type 66 Nylon	2015SV / UBE Industries Ltd 2015SE / UBE Industries Ltd FR370 / Asahi Kasei Chemicals Corp Alternate: A30SFN31 / LANXESS AG	I
Wire Release	Polyphenylene Oxide	AN60+ / Mitsubishi Engineering-Plastics Corp Alternate: LN60+ / Mitsubishi Engineering-Plastics Corp	I

Alteration/Modification to be Introduced
（変更後）

Insulating Materials			
Part	Material	Type designation / Manufacturer	Material group
Base	Polyamide, Type 66 Nylon	FR370 / Asahi Kasei Corp A30SFN31 / LANXESS AG	I
Wire Release	Polyphenylene Ether / Polystyrene	LN60+ / GLOBAL POLYACETAL CO., LTD.	I

TÜV Rheinland Japan
Genehmigt/Approved
2024-01-30
Rep. No.:
09961415 006
(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。