

Zertifikat Certificate



Zertifikat Nr. Certificate No.
R 50275853

Blatt Page
0001

Ihr Zeichen Client Reference
TUV-SL6100

Unser Zeichen Our Reference
ZJL-YTS- 50001542 001

Ausstellungsdatum
29.01.2014

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 60947-7-1:2009



Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

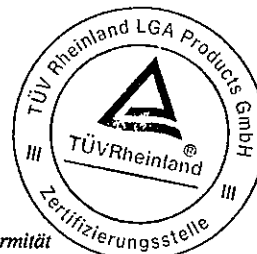
Serial Terminal Block Screwless Terminal Block

Type Designation: SL-6100-x-yP 5
x = H or V 1
y = 1 to 40 1
(Dashes are optional)

Number of Poles: 1 - 40
Rate Insulation Voltage: 300V ($\leq 250V$ r.m.s. working voltage between different poles)
Overvoltage Category: III
Rated Withstand Impulse Voltage: 4000V
Pollution Degree: 3
Protection Degree: IP00
Ambient Temperature Range at Rated Current: $-20^{\circ}C - 80^{\circ}C$
Rated Connecting Capacity:
Flexible: $0.2mm^2 - 0.75mm^2$, AWG24 to AWG16
Rigid: $\varnothing 0.4mm - \varnothing 1.2mm$, AWG24 to AWG16

ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.



Zertifizierungsstelle

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

Dipl.-Ing. (FH) M. Geiser

Zertifikat Certificate



Zertifikat Nr. Certificate No.
R 50275853

Blatt Page
0002

Ihr Zeichen Client Reference
TUV-SL6100

Unser Zeichen Our Reference
ZJL-YTS- 50001542 001

Ausstellungsdatum
29.01.2014

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



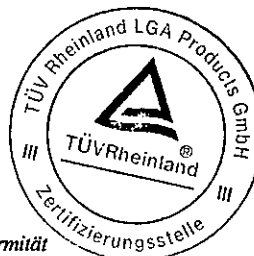
Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Serial Terminal Block Screwless Terminal Block

Addition

Factory: (see above)



Zertifizierungsstelle

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Dipl.-Ing. (FH) M. Geiser

Zertifikat Certificate



Zertifikat Nr. Certificate No.
R 50275853

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0003

Ihr Zeichen Client Reference
FACH-NGT

Unser Zeichen Our Reference
ZJL-MAA- 50001542 001

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

Serial Terminal Block Screwless Terminal Block

Change

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

changed to: (see above)



Zertifizierungsstelle

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.

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Vilmos Sztaroveczki

Zertifikat Certificate



Zertifikat Nr. Certificate No.
R 50275853

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0004

Ihr Zeichen Client Reference
TUV-ADD-CH

Unser Zeichen Our Reference
ZJL-MAA- 50001542 001

Ausstellungsdatum
27.09.2016

Date of Issue
(day/month/year)

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

Serial Terminal Block Screwless Terminal Block

Change

Address of

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

changed to: (see above)



Zertifizierungsstelle

Vilmos Sztaroveczki

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
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Zertifikat Certificate



Zertifikat Nr. Certificate No.
R 50275853

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0005

Ihr Zeichen Client Reference	Unser Zeichen Our Reference	Ausstellungsdatum	Date of Issue (day/month/year)
Factory-Del-Kasukabe	ZJL-MAA- 50001542 001	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

Serial Terminal Block Screwless Terminal Block

Change

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

withdrawn

Remark: Replaces R 50275853 page 0005, dated 17.01.2017.



Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.

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Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

Zertifizierungsstelle

Dipl.-Ing. (FH) F. Becker

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50275853

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0006

Ihr Zeichen *Client Reference*
ADD-CH

Unser Zeichen *Our Reference*
ZJL-MAA- 50001542 001

Ausstellungsdatum
27.02.2020

Date of Issue
(day/mo/yr)

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

Serial Terminal Block Screwless Terminal Block

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 und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
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Fax: (+49/221)8 06 - 39 35 <http://www.tuv.com/safety>

Zertifizierungsstelle

Dipl.-Ing. (FH) F. Becker



TÜVRheinland®
DIN CERTCO

R 50275853
Certificate No. ~~R 50274332~~
Our reference ZJL-YTS- 50001542 001
Appendix No. 1

(To be filled in by TÜV Rheinland)



TÜVRheinland®

Constructional Data Form for Terminal Block

Page 1/3

Licenseholder : Sato Parts Co., Ltd.
(full address) 3-3-3 Ebisu, Shibuya-ku, Tokyo 150-0013 Japan

Factory : Sato Parts Co., Ltd. Kasukabe Factory
(full address) 8-4 Minami-Sakae-cho, Kasukabe-shi, Saitama 344-0057 Japan
Niigata Sato Parts Co., Ltd.
2255-2 Torigoe Nagaoka-shi, Niigata 940-2316 Japan

Type or Model Number : **SL-6100 series**

Kind of device: **Screwless Terminal Block**

Specifications		
Type designation	SL-6100 H series	SL-6100 V series
Type of clamping units	<input type="checkbox"/> screw-type	<input checked="" type="checkbox"/> screwless-type
Number of poles	1 - 40	1 - 40
Rated insulation voltage (Ui)	300Vr.m.s. (≤ 250Vr.m.s. working voltage between different poles)	
Rated Thermal Current (Ith, if applicable)	7A	
Short-time withstand current	156A (120A/mm ²)	
Rated Frequency (if applicable)	50 – 60Hz / DC	
Upper limit temperature (if applicable)	105°C	
Lower limit temperature (if applicable)	-20°C	
Max. ambient temp. / range (at rated current)	-20°C - 80°C	
Overvoltage category / Uimp	III/ 4kVp	
Pollution degree	3	
IP code	IP00	
Shock condition (if applicable)	N/A	
Vibration condition (if applicable)	N/A	

Terminal Assembly	one clamping unit / terminal
Method of fixing the terminal block to the support	PCB mounting
Rated cross-section	Flexible : 0.75mm ² or AWG16 Rigid : φ 1.2mm or AWG16
Rated Connecting Capacity	Flexible : 0.2mm ² - 0.75mm ² , AWG24 - AWG16 Rigid : φ0.4mm - φ 1.2mm, AWG24 - AWG16

TÜV Rheinland

2014-01-14
(Date)

(Signature)
(Signature)

Ebisu, Tokyo
(Place)

SATO PARTS Co.,Ltd.

Takeshi Miura
(Stamp and Signature of Applicant)

2014-01-10
(Date)

T. Miura



TÜVRheinland®
DIN CERTCO

R 50275853
Certificate No. ~~R 50274332~~
Our reference ZJL-YTS- 50001542 001
Appendix No. 1

(To be filled in by TÜV Rheinland)



TÜVRheinland®

Constructional Data Form for Terminal Block

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Kind of conductor	Input: Un-prepared conductor Output : through-hole solder terminal for PCB mounting
max. Stripping length	Input: 10mm
max. Number of conductors per clamping unit	1
Clamping units	Screwless terminal
Size of screws / Specified tightening torque	N/A
Material of clamping units	See next table

Type of terminals	Solder terminals_IEC/EN 60068-2-20 (1.0mmx0.4mm solder pin)	Screwless terminals_IEC/EN60947-7-1
Terminal designation	1, 2, 3 ... 40	
Spec. Tightening torque	N/A	
Conductor/plating material of terminals	Copper Alloy (Cu≥98%)/ tin plated	Copper Alloy (Cu≥98%) / tin plated
Rated cross section of applicable conductor	Equivalent to AWG24 - AWG 16	Flexible : 0.2mm²-0.75mm², AWG24-AWG16 Rigid : φ0.4mm- φ 1.2mm, AWG24-AWG16
Type of applicable conductor	e.g. jump wire on PCB	Flexible or rigid
Required preparation of the conductor	N/A	
Max. Stripping length	--	10mm
Max. Number of conductors per terminal	1	

Insulation system		
Insulation system	<p><i>pole-pole</i> : <input checked="" type="checkbox"/> functional <input type="checkbox"/> reinforced</p> <p><i>live parts – outside (connection& disconnection button)</i> : <input checked="" type="checkbox"/> basic <input type="checkbox"/> reinforced</p> <p><i>live parts - mounting support</i> : --</p>	
Test voltages	<p><i>pole-pole</i> : 2210Vac / 4.8kVp (at sea level)</p> <p><i>live parts – outside (connection& disconnection button)</i> : 2210Vac / 4.8kVp (at sea level)</p> <p><i>live parts - mounting support</i> : --</p>	
Minimum creepage distances	<p>SL-6100 H series</p> <p><i>pole-pole</i> : 4.3 mm</p> <p><i>live parts – outside (connection& disconnection button)</i> : 5.3 mm</p> <p><i>live parts – mounting support</i> : --</p> <p>SL-6100 V series</p> <p><i>pole-pole</i> : 3.7 mm (250Vr.m.s. max.)</p> <p><i>live parts – outside (connection& disconnection button)</i> : 5.3 mm</p> <p><i>live parts – mounting support</i> : --</p>	
Minimum clearances	<p>SL-6100 H series</p> <p><i>pole-pole</i> : 3.4 mm (functional insulation)</p> <p><i>live parts – outside (connection& disconnection button)</i> : 4.8 mm (basic insulation)</p> <p><i>live parts – mounting support</i> : --</p> <p>SL-6100 V series</p> <p><i>pole-pole</i> : 3.4 mm (functional insulation)</p> <p><i>live parts – outside (connection& disconnection button)</i> : 4.8 mm (basic insulation)</p> <p><i>live parts – mounting support</i> : --</p>	

TÜV Rheinland

Ebisu, Tokyo
(Place)

2014-01-10
(Date)

2014-01-14
(Date)

[Signature]
(Signature)

SATO PARTS Co.,Ltd.

Takeshi Miura

(Stamp and Signature of Applicant)

T. Miura



TÜVRheinland®
DIN CERTCO

R 50275853
Certificate No. ~~R-50274932~~
Our reference ZJL-YTS- 50001542 001
Appendix No. 1

(To be filled in by TÜV Rheinland)



TÜVRheinland®

Constructional Data Form for Terminal Block

Page 3/3

Plastic Materials					
Part	Material	Type designation Manufacturer	RTI	Flammability	Material group
Sectional Block	Polyamide, 66Nylon, any color	Grade: A30SFN31 LANXESS AG(UL File No.E245249)	105°C	V-0	I
End Plate	Polyamide, 66Nylon, Any color	Grade: A30SFN31 LANXESS AG(UL File No.E245249)	105°C	V-0	I
Wire Release	Polyphenylene Ether/ Polystyrene	Grade: LN60 MITSUBISHI Engineering- Plastics Corp (UL File No.E41179)	65°C	V-0	I

TYPE NOMENCLATURE:

Example : SL-6100 -x - y P

SL-6100 - Basic construction (Model No.)

x - Solder Post Location (Bottom) : H
(Back) : V

y - Number of Pole(s) : 1 to 40

Note : Dashes are optional.

TÜV Rheinland

2014-01-14
(Date)

[Signature]
(Signature)

Ebisu, Tokyo
(Place)

SATO PARTS Co.,Ltd.

Takeshi Miura
(Stamp and Signature of Applicant)

2014-01-10
(Date)

T. Miura

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

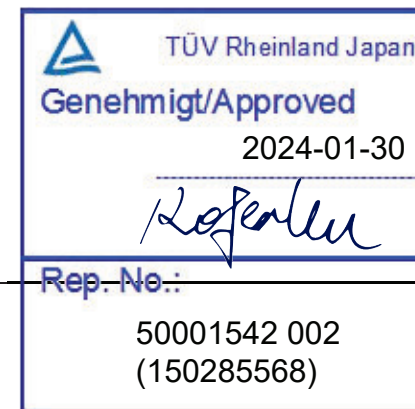
Product (製品名): Terminal Block

Type designation (型式): SL-6100-x-yP

Report No.: 50001542 002

License No.: R 50275853

Methods (Design / Component) Presently Employed (変更前 : 現行)						Alteration/Modification to be Introduced (変更後)					
Insulating Materials						Insulating Materials					
Part	Material	Type designation Manufacturer	RTI	Flamm ability	Material group	Part	Material	Type designation Manufacturer	RTI	Flamm ability	Material group
Wire Release	Polyphenylene Ether / Polystyrene	Grade: LN60, Mitsubishi Engineering-Plastics Corp (UL File No. E41179)	65°C	V-0	I	Wire Release	Polyphenylene Ether / Polystyrene	Grade: LN60, GLOBAL POLYACETAL CO., LTD. (UL File No. E167806)	65°C	V-0	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。