

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



Zertifikat Nr. *Certificate No.*
J 9950442

Blatt *Page*
08

Ihr Zeichen *Client Reference*
CHG BASE

Unser Zeichen *Our Reference*
ZJL-YTS- 09960282 005

Ausstellungsdatum
10.05.2024

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

Terminal Block, as page 0001

Addition

Type Designation: ML-30 (x) P (y) (z) P
(x) = A or -A ; (y) = F, S or blank
(z) = 1 to 20 or -1 to -20

Rated Current: 10A
Rated Voltage: AC/DC 250V
Pollution Degree: 3
Overvoltage Category: III
Rated Impulse Withstand Voltage: 4000V
Ambient Temperature Range: -20 to 50°C

Remark: These products have the same ratings and identical structures as the original, already certified types.

ANLAGE (Appendix): 1.2

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

Zertifizierungsstelle

Vilmos Sztaroveczki



Constructional Data Form – Line Filter

Page 1/2

License holder : Sato Parts Co., Ltd.
3-3-8, Sotokanda, Chiyoda-ku, Tokyo 101-0021 Japan

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

Kind of device : Terminal Block

Type Designation : **ML-30(x)P(y)(z)P**

(x) = A or -A
(stands for the location of soldering post.
A : bottom direction terminal / standard
-A : bottom direction terminal / manufacturer's denotative option)

(y) = F, S or blank
(stands for the screw assembly.
F : pressure wire connector – screw with lock washer and square pressure plate
S : pressure screw – screw with lock washer and round flat washer
blank : pressure screw – screw only)

(z) = 1 to 20 or -1 to -20
(stands for the number of terminals.
1 to 20 : minimum 1 pole, maximum 20 poles / standard
-1 to -20 : minimum 1 pole, maximum 20 poles / manufacturer's denotative option)

TÜV Rheinland Y.Tsushima

2024-04-22

(Date)



(Signature)

Sato Parts Co., Ltd. Niigata Factory
2255-2 Torigoe, Nagaoka-shi, Niigata 940-2316 Japan
(Place)

2024-04-22

(Date)

Y.Kodama Yutaka Kodama
(Stamp and Signature of Applicant)

Constructional Data Form – Line Filter

Page 2/2

General specifications

Type Designation	ML-30(x)P(y)(z)P																								
Rated operational voltage (U _e)	AC/DC 250 V																								
Rated insulation voltage (U _i)	AC/DC 250 V																								
Rated current (I _n)	10																								
Short-time withstand current	N/A																								
Overvoltage category	III																								
Rated impulse withstand voltage (U _{imp})	4000 V																								
Pollution degree	3																								
Rated temperature range	-20 to +50 °C																								
Upper limit temperature (if applicable)	N/A																								
Lower limit temperature (if applicable)	N/A																								
Rated Frequency (if applicable)	50 – 60Hz / DC																								
IP degree	IP00																								
Creepage distance	≥ 4.0 mm																								
Clearance	≥ 4.0 mm																								
Type of clamping units	☒ screw-type ☐ screwless-type																								
fixing method to the support	PCB mounting																								
Number of poles	1 - 20																								
Size of screws / Specified tightening torque	M3 / 0.5 N·m																								
max. number of conductors per clamping unit	<table border="1"> <tr> <td>(y) =</td><td>F</td><td>S</td><td>blank</td></tr> <tr> <td>bare wire</td><td>2</td><td>1</td><td>1</td></tr> <tr> <td>crimp terminal</td><td>2</td><td>2</td><td>2</td></tr> </table>	(y) =	F	S	blank	bare wire	2	1	1	crimp terminal	2	2	2												
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Conductor/plating material (terminals)	copper alloy (min.64%) / Tin plated																								
Conductor/plating material (other parts)	<table border="1"> <tr> <td>(y) =</td><td>F</td><td>S</td><td>blank</td></tr> <tr> <td>Screw</td><td>Steel / Nickel plated</td><td>Steel / Nickel plated</td><td>Steel / Nickel plated</td></tr> <tr> <td></td><td>Brass / Nickel plated</td><td>Brass / Nickel plated</td><td>Brass / Nickel plated</td></tr> <tr> <td>Lock washer</td><td>Steel / Nickel plated</td><td>Steel / Nickel plated</td><td>-</td></tr> <tr> <td>Pressure Plate</td><td>Steel / Nickel plated</td><td>Steel / Nickel plated</td><td>-</td></tr> <tr> <td></td><td>Brass / Nickel plated</td><td>Brass / Nickel plated</td><td>-</td></tr> </table>	(y) =	F	S	blank	Screw	Steel / Nickel plated	Steel / Nickel plated	Steel / Nickel plated		Brass / Nickel plated	Brass / Nickel plated	Brass / Nickel plated	Lock washer	Steel / Nickel plated	Steel / Nickel plated	-	Pressure Plate	Steel / Nickel plated	Steel / Nickel plated	-		Brass / Nickel plated	Brass / Nickel plated	-
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Rated Connecting Capacity	<table border="1"> <tr> <td>(y) =</td><td>F</td><td>S</td><td>blank</td></tr> <tr> <td>Flexible</td><td>0.3 mm² - 2.0 mm²</td><td>0.2 mm² - 1.25 mm²</td><td>0.2 mm² - 1.25 mm²</td></tr> <tr> <td></td><td>AWG22 - AWG14</td><td>AWG24 - AWG16</td><td>AWG24 - AWG16</td></tr> <tr> <td>Rigid</td><td>AWG24 - AWG14</td><td>AWG24 - AWG14</td><td>AWG24 - AWG14</td></tr> </table>	(y) =	F	S	blank	Flexible	0.3 mm ² - 2.0 mm ²	0.2 mm ² - 1.25 mm ²	0.2 mm ² - 1.25 mm ²		AWG22 - AWG14	AWG24 - AWG16	AWG24 - AWG16	Rigid	AWG24 - AWG14	AWG24 - AWG14	AWG24 - AWG14								
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Rigid	AWG24 - AWG14	AWG24 - AWG14	AWG24 - AWG14																						
Operation instructions : - To be securely attached to a PCB - Not for protective earth connection - Suitable installation has to be maintained by built-in conditions																									

Plastic Materials

Part	Material	Type designation Manufacturer	RTI	Flammability	Material group
Base	Phenolic	Grade: KM-450(++), KYOCERA Corporation UL File No. E43857	150°C	V-0 (0.75mm)	-
		Grade: PM-8425J, SUMITOMO BAKELITE CO LTD UL File No. E41429	150°C	V-0 (0.71mm)	IIIa
		Grade: PM-9750, SUMITOMO BAKELITE CO LTD UL File No. E41429	150°C	V-0 (0.30mm)	IIIa

TÜV Rheinland Y.Tsushima
2024-04-22 
(Date) (Signature)

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