

20mm fuses

Order code	Manufacturer code	Description
26-1100	70-001-34/3.15A	4A 20X5MM QUICKBLOW GLASS FUSE

20mm fuses	Page 1 of 10
The enclosed information is believed to be correct, Information may change 'without notice' due to product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	Revision A 04/07/2003

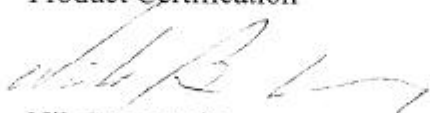
CERTIFICATE

Product Safety

<i>Reference No./pos</i>	9838074/01-05
<i>Product</i>	Miniature fuse-link
<i>Certificate holder/ manufacturer</i>	ELU ELEKTRO-UNION GMBH Postfach 10 10 54 DE-44010 Dortmund GERMANY
<i>Type designations</i>	179020.0,032, 179020.0,08, 179020.0,1, 179020.0,125, 179020.0,16
<i>Technical data</i>	See Enclosure 1
<i>The product complies with the standard(s)</i>	EN 60127-2:1991 + A1:1995
<i>Date of expiry</i>	31 December 2007
<i>LVD Information</i>	The products satisfy the provisions for CE marking according to the Low Voltage Directive 73/23/EEC and 93/68/EEC.

Terms and additional information overleaf and in Appendix 1.

Stockholm **SEMKO AB**
24 September 1998 Product Certification


Nils Bromander



SEMKO is part of the global network of

ITS Intertek Testing Services

Additional Information and manufacturing site

Item No. 01 Type designation: 179020.0,032

Technical data

32mA 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.

Standard Sheet 2.

Item No. 02 Type designation: 179020.0,08

Technical data

80mA 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.

Standard Sheet 2.

Item No. 03 Type designation: 179020.0,1

Technical data

100mA 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.

Standard Sheet 2.

Item No. 04 Type designation: 179020.0,125

Technical data

125mA 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.

Standard Sheet 2.

Item No. 05 Type designation: 179020.0,16

Technical data

160mA 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.

Standard Sheet 2.

Manufacturing site:

ELU ELEKTRO-UNION GMBH

Postfach 10 10 54

DE-44010 Dortmund

GERMANY

This certificate is based on CB with ref. No. DE 1-5569 dated 7 August 1997,
issued by VDE, Germany.

This certificate, which includes production control, is considered to constitute sufficient
support for an EC Declaration of Conformity and CE marking of the products according to
the Low Voltage Directive 73/23/EEC and 93/68/EEC.

CERTIFICATE

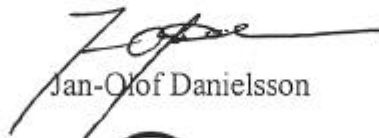
Product Safety

<i>Reference No./pos</i>	9933002/01-19
<i>Product</i>	Miniature fuse-link
<i>Certificate holder/ manufacturer</i>	ELU ELEKTRO-UNION GMBH Postfach 10 10 54 DE-44010 DORTMUND GERMANY
<i>Type designations</i>	179020
<i>Technical data</i>	See Enclosure 1
<i>The product complies with the standard(s)</i>	EN 60127-2:1991 + A1:1995
<i>Date of expiry</i>	31 December 2007
<i>LVD Information</i>	The products satisfy the provisions for CE marking according to the Low Voltage Directive 73/23/EEC and 93/68/EEC.

Terms and additional information overleaf and in Appendix 1.

Stockholm
23 August 1999

SEMKO AB
Product Certification


Jan-Olof Danielsson

 **SEMKO**

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ITS Intertek Testing Services

Additional Information and manufacturing site

Item No. 01 Type designation: 179020
Technical data
400mA 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.
Standard Sheet 2.

Item No. 02 Type designation: 179020
Technical data
50mA 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.
Standard Sheet 2.

Item No. 03 Type designation: 179020
Technical data
63mA 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.
Standard Sheet 2.

Item No. 04 Type designation: 179020
Technical data
200mA 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.
Standard Sheet 2.

Item No. 05 Type designation: 179020
Technical data
250mA 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.
Standard Sheet 2.

Item No. 06 Type designation: 179020
Technical data
315mA 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.
Standard Sheet 2.

Item No. 07 Type designation: 179020
Technical data
400mA 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.
Standard Sheet 2.

Item No. 08 Type designation: 179020
Technical data
500mA 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.
Standard Sheet 2.

Item No. 09 Type designation: 179020
Technical data
630mA 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.
Standard Sheet 2.

Item No. 10 Type designation: 179020
Technical data
800mA 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.
Standard Sheet 2.

Item No. 11 Type designation: 179020
Technical data
1A 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.
Standard Sheet 2.

Item No. 12 Type designation: 179020
Technical data
1.25A 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.
Standard Sheet 2.

Item No. 13 Type designation: 179020
Technical data
1.6A 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.
Standard Sheet 2.

Item No. 14 Type designation: 179020
Technical data
2A 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.
Standard Sheet 2.

Item No. 15 Type designation: 179020
Technical data
2.5A 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.
Standard Sheet 2.

Item No. 16 Type designation: 179020
Technical data
3.15A 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.
Standard Sheet 2.

Item No. 17 Type designation: 179020
Technical data
4A 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.
Standard Sheet 2.

Item No. 18 Type designation: 179020
Technical data
5A 250V. Quick-acting, low-breaking capacity. 5 x 20 mm.
Standard Sheet 2.

VT No. 1250427901, Regional Office, Sankar, Sankar 3111
VT No. 1250427901, Regional Office, Sankar, Sankar 3111

Item No. 19 Type designation: 179020

Technical data

6.3A 250V. Quick-acting. low-breaking capacity. 5 x 20 mm.
Standard Sheet 2.

Manufacturing site:

ELU ELEKTRO-UNION GMBH

Borker Strasse 20-22

DE-44534 LÜDEN

GERMANY

This certificate is based on CB with ref. No. DE 1-5579 dated 7 August 1997,
issued by VDE, Germany.

This certificate, which includes production control, is considered to constitute sufficient
support for an EC Declaration of Conformity and CE marking of the products according to
the Low Voltage Directive 73/23/EEC and 93/68/EEC.

ITS Intertek Testing Services ETL SEMKO

ZEICHENGENEHMIGUNG MARKS LICENCE

SIBA Sicherungen-Bau GmbH
Borker Strasse 20-22
44534 Lünen

ist berechtigt, für ihr Produkt /
is authorized to use for their product

Geräteschutzsicherung
Miniature fuse
179020

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.



Geprüft und zertifiziert nach /
Tested and certified according to

DIN VDE 0820 Teil 1:1992-11; EN 60127-1:1991
DIN EN 60127-1/A1 (VDE 0820 Teil 1/A1):1999-11; EN 60127-1/A1:1999
DIN EN 60127-2 (VDE 0820 Teil 2):2001-09; EN 60127-2:1991 + A1:1995 + A2:2000
DIN EN 60127-4 (VDE 0820 Teil 4):1997-05; EN 60127-4:1996
Abschnitt/clause 9.8

VDE Prüf- und Zertifizierungsinstitut
VDE Testing and Certification Institute
Zertifizierungsstelle
Certification

Schipper

Aktenzeichen: 232000-1170-0002 / 28280

File ref.:

Ausweis-Nr. 40006562

Blatt 1

Licence No.

Page

Weitere Bedingungen siehe Rückseite und Folgeblätter /
further conditions see overleaf and following pages

Offenbach, 2003-06-06



Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Licence holder*
SIBA Sicherungen-Bau GmbH, Borker Strasse 20-22, 44534 Lünen

Aktenzeichen / *File ref.*
232000-1170-0002 / 28280 / F340 / 00

Datum / *Date*
2003-06-06

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40006562.
This supplement is only valid in conjunction with page 1 of the Licence No. 40006562.

Geräteschutzsicherung *Miniature fuse* 179020

Typ(en) / *Type(s)*:

179020

Bemessungsspannung <i>Rated voltage</i>	AC 250 V
Bemessungsstrom <i>Rated current</i>	32 mA; 40 mA; 50 mA; 63 mA; 80 mA; 100 mA; 125 mA; 160 mA; 200 mA; 250 mA; 315 mA; 400 mA; 500 mA; 630 mA; 800 mA; 1 A; 1,25 A; 1,6 A; 2 A; 2,5 A; 3,15 A; 4 A; 5 A; 6,3 A
Normblatt <i>Standard sheet</i>	2
Maße in mm <i>Dimension in mm</i>	5 x 20
Kennzeichnung der Charakteristik <i>Characteristic symbol</i>	F
Kennzeichnung des Ausschaltvermögens <i>Breaking capacity symbol</i>	L
Bemessungsausschaltvermögen <i>Rated breaking capacity</i>	35 A bzw. 10 x I _n <i>35 A resp. 10 x I_n</i>
Zeit/Strom-Charakteristik <i>Time/current-characteristic</i>	flink <i>quick-acting</i>
Anmerkung <i>Remark</i>	Die nach EN 60127-4 ermittelte Betriebsüberspannung war kleiner als 250 V. <i>The operating overvoltage measured according to EN 60127-4 was below 250 V.</i>

Fortsetzung siehe Blatt 3 /
continued on page 3

DESCRIPTION

PRODUCT COVERED:

USR, CNR - Component - Miniature (5 by 20 mm) fuse, Type 179020 rated 0.032-6.3 A, 250 V ac.

GENERAL:

These fuses have been evaluated to the requirements of UL and to Canadian National Standards, CSA C22.2 No. 248.1 and CSA C22.2 No. 248.14, Second Edition.

CNR - Indicates investigation to Canadian National Standards C22.2 No. 248.1 and C22.2 No. 248.14.

Note: CNR = Canadian National Standards - Recognized.
USR = United States Standards - Recognized.

ELECTRICAL CHARACTERISTICS:

These fuses have the following clearing time characteristics:

Rating	<u>210%</u>	<u>400%</u>	
	<u>Max</u>	<u>Min</u>	<u>Max</u>
0.032-0.1 A	30 min	0.003 s	0.3 s
0.125-6.3 A	30 min	0.003 s	0.3 s

INTERRUPTING ABILITY RATINGS:

These fuses have interrupting ratings of 35 A or 10 times fuse ampere rating, whichever is greater, at 250 V ac, resistive.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

Use - Fuses covered by this report are intended for supplementary overcurrent protection where branch circuit or equivalent applications are not involved.

These fuses are for use only in equipment where the acceptability of the combination has been determined by Underwriters Laboratories Inc.

Conditions of Acceptability - The above restrictions arise because of the following variations from the Standard for Fuses for Supplementary Overcurrent Protection, UL 198G, Third Edition.

1. Max operating temperatures have not been determined. Consideration should be given to checking operating temperatures during end-product evaluation, with regard to thermal index of surrounding materials and components.

2. Clearing time current tests were conducted at 210%, and 400% of ampere rating rather than at 135% and 200%. Consideration should be given to performing abnormal and/or overload tests during end-product evaluation when overload protection less than 210% of fuse ampere rating may be required.
3. Interrupting ratings are not in accordance with Section 22 of UL 198G.

MARKING:

Company name or trademark, amp rating and voltage rating marked on fuse. Also, the smallest package in which the fuses are packed is marked to include interrupting ratings and "AC". Type No. or Cat. No. shall be marked on fuse or smallest package.

Canadian Marking Requirements - See Section General for details.