Panel Mounting

Order code	Manufacturer code	Description
26-4495	FN9260-6/06	6A 9260 DBL FUSED IEC FILTER (RC)
26-4480	FN9260-1/06	1A 9260 DBL FUSED IEC FILTER (RC)
26-4485	FN9260-2/06	2A 9260 DBL FUSED IEC FILTER (RC)
26-4490	FN9260-4/06	4A 9260 DBL FUSED IEC FILTER (RC)

Sales: 01206 751166
Sales@rapidelec.co.uk
Technical: 01206 835555
Tech@rapidelec.co.uk
Fax: 01206 751188
www.rapidonline.com

CERTIFICATE

Product Safety

Reference No./pos	**9743278/01-07**
Product	**Filter unit for radio interference suppression with appliance inlet**
Certificate holder/ manufacturer	**SCHAFFNER ELEKTRONIK AG** **Pruefzeichenwesen** **Nordstrasse 11** **CH-4542 Luterbach** **SWITZERLAND**
Type designations	**FN 261..-..-..-.., FN 9260..-..-..-.., SN 261.-10-..-..,** **SN 9260.-10-..-.., FN 363.-.-..-.., FN 365.-.-..-.., FN 36...-.-..-..**
Technical data	**See Appendix 1**
The product complies with the standard(s)	**EN 133 200:1994**
Date of expiry	**31 December 2007**

Terms and additional information overleaf and in Appendix 1.

Stockholm
8 December 1997

SEMKO AB
Product Certification

Owe Richardson

SEMKO

SEMKO is part of the global network of

ITS Intertek Testing Services

Additional Information and manufacturing sites

Item No. 01 Type designation: FN 261..-..-..-..
Technical data
0.1uF X2 + 2x2200pF Y2 + 2x5.3, 2.7, 1.0, 0.3 or 0.19mH + 1Mohm.
1, 2, 4, 6 or 10A. AC 250V.

Item No. 02 Type designation: FN 9260..-..-..-..
Technical data
0.1uF X2 + 2x2200pF Y2 + 2x5.3, 2.7, 1.0, 0.3 or 0.19mH + 1Mohm.
1, 2, 4, 6 or 10A. AC 250V.

Item No. 03 Type designation: SN 261.-10-..-..
Technical data
0.1uF X2 + 2x2200pF Y2 + 1Mohm. 10A. AC 250V.

Item No. 04 Type designation: SN 9260.-10-..-..
Technical data
0.1uF X2 + 2x2200pF Y2 + 1Mohm. 10A. AC 250V.

Item No. 05 Type designation: FN 363.-.-..-..
Technical data
0.047uF X2 + 2x2200pF Y2 + 2x3, 1.25 or 0.48mH + 400uH.
1, 2 or 4A. AC 250V.

Item No. 06 Type designation: FN 365.-.-..-..
Technical data
0.015uF X2 + 2x2200pF Y2 + 2x2.0 or 0.8mH. 2 or 4A.
AC 250V.

Item No. 07 Type designation: FN 36...-.-..-..
Technical data
2x0.047uF X2 + 2x2200pF Y2 + 2x7,5, 2.0, 0.75 or 0.45mH.
1, 2, 4 or 6A. AC 250V.

Manufacturing sites:

SCHAFFNER ELEKTRONIK AG
Pruefzeichenwesen
Nordstrasse 11
CH-4542 Luterbach
SWITZERLAND

SCHAFFNER EMC LTD
N. Region Ind. Est., 67 Moo
4 Tambol Ban Klang, Amphur Muang
Lamphun 51000
THAILAND

Alternative designs:

Type	Current [A]	Induct. [mH]	Wire-ϕ [mm]	Turns (2 x)	Induct. [µH]	Wire-ϕ [mm]	Turns (1 x)	X2-Caps [µF]	Y2-Caps [nF]	Resistor [MΩ]
FN 261(S y)- 1-yy(-zz) FN9260(S y)- 1-yy(-zz)	1	5.3	0.315	42	---	---	---	0.1	2 * 2.2	1
FN 261(S y)- 2-yy(-zz) FN9260(S y)- 2-yy(-zz)	2	2.7	0.5	30	---	---	---	0.1	2 * 2.2	1
FN 261(S y)- 4-yy(-zz) FN9260(S y)- 4-yy(-zz)	4	1.0	0.8	18	---	---	---	0.1	2 * 2.2	1
FN 261(S y)- 6-yy(-zz) FN9260(S y)- 6-yy(-zz)	6	0.3	0.9	10	---	---	---	0.1	2 * 2.2	1
FN 261(S-y)- 10-yy(-zz) FN9260(S y)- 10-yy(-zz)	10	0.19	1.12	8	---	---	---	0.1	2 * 2.2	1
FN 261(S)- 10-yy(-zz) FN9260(S)- 10-yy(-zz)	10	---	1.0	---	---	---	---	0.1	2 * 2.2	1
FN 363(S)- 1-yy(-zz)	1	3.0	0.25	34	400	1.12	13	0.047	2 * 2.2	---
FN 363(S)- 2-yy(-zz)	2	1.25	0.4	21	400	1.12	13	0.047	2 * 2.2	---
FN 363(S)- 4-yy(-zz)	4	0.48	0.6	13	400	1.12	13	0.047	2 * 2.2	---
FN 365(S)- 2-yy(-zz)	2	2.0	0.45	22	---	---	---	0.015	2 * 2.2	---
FN 365(S)- 4-yy(-zz)	4	0.8	0.71	13	---	---	---	0.015	2 * 2.2	---
FN 36w(S x)- 1-yy(-zz)	1	7.5	0.315	53	Only by	Only by	Only by	2*0.047	2 * 2.2	---
FN 36w(S x)- 2-yy(-zz)	2	2.0	0.63	27	E-	E-	E-	2*0.047	2 * 2.2	---
FN 36w(S x)- 4-yy(-zz)	4	0.75	0.8	17	Types	Types	Types	2*0.047	2 * 2.2	---
FN 36w(S x)- 6-yy(-zz)	6	0.45	1.12	13	400	1.12	13	2*0.047	2 * 2.2	---

- No letter = standard
- only in combination with the "S-types":
  Two numeric codes from 05 to 40 for thickness of equipment wall [mm/10]

01 = Soldering lugs
05 = Fast-on 6.3 * 0.8 (spade)
06 = Fast-on 6.3 * 0.8 (spade/soldering)

x: Standard = No letter
A = smaller Y2-Capacitors (470 pF)
A1 = smaller Y2-Capacitors (220 pF)
B = without Y2-Capacitor plus additional resistor 1 MΩ (medical version)
E = FN 360 & FN 361 only: Standard with additional earth-choke
EB = FN 360 & FN 361 only: Combination of E + B

No letter = Standard housing: IEC-inlet with flanges
S = Snap-In version (mounting on vertical side): IEC-inlet and housing without flanges
S1 = Snap-In version (mounting on horizontal side): IEC inlet and housing without flanges

w: 0 = 2 fuses (series FN 360 & FN 9260)
1 = 1 fuse (series FN 361 & FN 261)

Capacitors included:

X2 Philips type 336 2
or equivalent capacitors which are approved according to EN 132 400

Y2 Rifa type PME 271 Y
Ceramite type 30 LV or 30 LVS
Roederstein type WYO
or equivalent capacitors which are approved according to EN 132 400

Socket inlets included:

Heil type 1062 or Kautt & Bux type SST 11
or equivalent socket inlets which are approved according to EN 60320.

INTERNATIONAL ELECTROTECHNICAL COMMISSION (IEC)
COMMISSION ELECTROTECHNIQUE INTERNATIONALE (CEI)

Ref. Certif. No.
SE-10139

IEC SYSTEM FOR CONFORMITY TESTING TO STANDARDS FOR SAFETY OF ELECTRICAL EQUIPMENT (IECEE)
CB SCHEME

SYSTEME CEI D'ESSAIS DE CONFORMITE AUX NORMES DE SECURITE DE L'EQUIPEMENT ELECTRIQUE (IECEE)
METHODE OC

CB TEST CERTIFICATE
CERTIFICAT D'ESSAI OC

Product *Produit*	Filter unit for radio interference suppression with appliance inlet
Name and address of the applicant *Nom et adresse du demandeur*	Schaffner Elektronik AG Nordstrasse 11, CH-4542 Luterbach, SWITZERLAND
Name and address of the manufacturer *Nom et adresse du fabricant*	Same as above
Name and address of the factory *Nom et adresse de l'usine*	Same as above + Schaffner EMC Ltd. N. Region Ind. Est., 67 Moo 4 Tambol, Ban Klang, Amphur Muang Lamhun 51000, THAILAND
Rating and principal characteristics *Valeurs nominales et caractéristiques principales*	See Annex 1
Trade mark (if any) *Marque de fabrique (si elle existe)*	SCHAFFNER
Model/type Ref. *Ref.de type*	FN 261..-..-..-.., FN 9260..-..-..-.., SN 261.-10-..-.., SN 9260.-10-..-.., FN 363.-.-..-.., FN 365.-.-..-.., FN 36...-.-..-..
Additional information (if necessary) *Information complémentaire (si nécessaire)*	The filters are also in conformity with EN 133 200:1994
A sample of the product was tested and found to be in conformity with *Un échantillon de ce produit a été essayé et a été considéré conforme à la*	IEC 60939:1988
as shown in the Test Report Ref. No. which form part of this certificate *comme indiqué dans le Rapport d'essais numéro de référence qui constitue une partie de ce certificat*	9743278/01-04

This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme National de Certification

SEMKO

8 December 1997

DAM/MMB

SEMKO is part of the global network of
ITS Intertek Testing Services

Postal address	Visiting address	Telephone	Telefax
SEMKO AB **P.O. Box 1103** **SE-164 22 KISTA**	**Torshamnsgatan 43** **KISTA-STOCKHOLM**	Int+ 46 8 750 00 00	Int+ 46 8 750 60 30

augusti 1997

CSA INTERNATIONAL

Certificate of Compliance

Certificate: -1059968 (LR 44788-156)

Master Contract: 171321

Project: 1341461

Date Issued: July 10, 2002

Issued to: **Schaffner EMV AG**
EMC & Safety Service
Nordstrasse 11
CH-4542 Luterbach
Switzerland
Attention: Mr. W. Furer

The products listed below are eligible to bear the CSA Mark shown

Issued by: C. S. Yee, P. Eng

Authorized by: Terry Thom, P. Eng.
Operations Manager

PRODUCTS

CLASS 2221 02 - ELECTROMAGNETIC INTERFERENCE (EMI) FILTERS

Electromagnetic Interference (EMI) filters, Series FN 36..., FN/SN 261.. and FS 6024-3-07, FN/SN 9260..., rated max. 250 V_{AC}, 50/60 Hz, -25°C to 40°C.
Models:

FN 36w(SEx)-1-yy(-zz)	FN 363(S)-1-yy-(-zz)		1 A
FN 36w(SEx)-2-yy(-zz)	FN 363(S)-2-yy-(-zz)	FN 365(S)-2-yy-(-zz)	2 A
FN 36w(SEx)-4-yy(-zz)	FN 363(S)-4-yy-(-zz)	FN 365(S)-4-yy-(-zz)	4 A
FN 36w(SEx)-6-yy(-zz)			6 A
FN 261(Sx)-1-yy(-zz)	FN 9260(Sx)-1-yy(-zz)		1 A
FN 261(Sx)-2-yy(-zz)	FN 9260(Sx)-2-yy(-zz)		2 A
FS 6024-3-07			3 A
FN 261(Sx)-4-yy(-zz)	FN 9260(Sx)-4-yy(-zz)		4 A
FN 261(Sx)-6-yy(-zz)	FN 9260(Sx)-6-yy(-zz)		6 A
FN 261(Sx)-10-yy(-zz)	FN 9260(Sx)-10-yy(-zz)		10 A
SN 261(Sx)-10-yy(-zz)	SN 9260(Sx)-10-yy(-zz)		10 A

Certificate: 1059968 (LR 44788-156)

Master Contract: 171321

Project: 1341461

Date Issued: July 10, 2002

Notes:
Certified as a component of Certified equipment where the suitability of the combination is to be determined by the Canadian Standards Association.
Letter E in model designation denoting additional earth choke.
Letter w in model designation is replaced by 0 or 1 denoting the number of fuses.
Letter S in model designation may be replaced by S or S1 denoting the power inlet.
Letter x in model designation may be replaced by A, A1, A2, B, C, C1 or C2 denoting the Y-capacitor value.
Letters yy in model designation may be replaced by 01, 05 or 06 denoting the supply connections.
Letters zz in model designation may be replaced by up to 2 digits denoting model variations.

APPLICABLE REQUIREMENTS

CSA Std. C22.2 No. 8M1986 - Electromagnetic Interference (EMI Filters)

D E S C R I P T I O N

PRODUCT COVERED:

Component - Appliance Filter, Models FN261W#-Y-XX-ZZ, FN9260W#-Y-XX-ZZ, SN261#-10-XX-ZZ, SN9260#-10-XX-ZZ and FS6024-3-07, where W can be nothing or the letters A, *A1, B, C, C1, C2 or R, where # can be nothing or an S or S1, where y can be the number 1, 2, 4, 6, or 10, where XX can be the number 01, 05 or 06, where ZZ can be nothing or the numbers 05-40.

ENGINEERING CONSIDERATION:

The components covered by this report are electromagnetic interference filter assemblies intended to be used in electronic data processing equipment and similar equipment where the acceptability of the combination has been determined by Underwriters Laboratories Inc.

ELECTRICAL RATINGS:

All filters are rated 125/250 V ac, 50/60 Hz. See Ill. 2 for voltage and current rating and Ill. 1 for circuit diagrams and dimensions.

CONDITIONS OF ACCEPTABILITIES (NOT FOR UL REPRESENTATIVE USE):

General - For use only in complete equipment with the acceptability of the combination has been determined by Underwriters Laboratories Inc. The following items should be evaluated to determine the acceptability of the component in the end product.

1. These filters have been investigated under the applicable requirements of UL 1283 - ELECTROMAGNETIC INTERFERENCE FILTERS.

2. Leakage current should be measured to determine compliance with the end product requirements.

3. The filters should be provided with an overall enclosure in compliance with the applicable end product requirements.

4. These components have been judged on the basis of the required spacings in the Standard of ELECTROMAGNETIC INTERFERENCE FILTERS, Paragraph 20.2.3. Spacings between terminals and dead metal products should comply with the end product requirements.

5. Case temperature should be monitored in the end product.

6. The terminals have not been evaluated as field wiring terminals. Acceptability of the grounding terminal connections should be determined in the end product.

7. The filters have been evaluated for use in systems rated for max. 60 Hz.

8. The filters have been evaluated for use in systems where the phase to phase voltage does not exceed 250 V

9. The acceptability of the means for overcurrent protection provided on the inlet receptacle shall be determined in the end-use application.

MANUFACTURER:

Refer to Section General.

MODEL DIFFERENCES

Series FN261 has 1 fuse
Series FN9260 has 2 fuses
01 = Soldering lugs
05 = Fast-on 6.3*0.8 (spade)
06 = Fast-on 6.3*0.8 (spade/soldering)

A = Small Y - capacitor (0.47 nF)
B = No Y - capacitor
R = Standard without resistor
No letter = Standard
A1 = small y capacitor (0.22 nF)
* C2 = small y capacitor (0.68 nF)
* C1 = small y capacitor (1.0 nF)
* C = small y capacitor (1.4 nF)

The S and S1 versions are identical to the standard version except for the snap on inlet (S=vertical, S1=horizontal)

Type summary:
FN / SN 261... Series;
FN / SN 9260... Series;
FS 6024-3-07

Type	Current [A]	Inductance [2 x mH]	Wire-Ø [mm]	Turns (2 x)	X2-Caps [µF]	Y2-Caps [nF]	Resistor [MΩ]
FN 261(S x)- 1-yy (-zz) FN9260(S x)- 1-yy (-zz)	1	5.3	0.315	42	0.1	2 * 2.2	1
FN 261(S x)- 2-yy (-zz) FN9260(S x)- 2-yy (-zz)	2	2.7	0.5	30	0.1	2 * 2.2	1
FS 6024- 3-07	3	6.3	0.53	34	0.1	2 * 2.2	1
FN 261(S x)- 4-yy (-zz) FN9260(S x)- 4-yy (-zz)	6	1.0	0.8	18	0.1	2 * 2.2	1
FN 261(S x)- 6-yy (-zz) FN9260(S x)- 6-yy (-zz)	6	0.3	0.9	10	0.1	2 * 2.2	1
FN 261(S x)-10-yy (-zz) FN9260(S x)-10-yy (-zz)	10	0.19	1.12	8	0.1	2 * 2.2	1
SN 261(S)-10-yy (-zz) SN9260(S)-10-yy (-zz)	10	—	1.0	—	0.1	2 * 2.2	1

- No letter = standard
- Only in combination with the "S-types":
  Two numeric codes from 05 to 40 for thickness of equipment wall [mm/10]

01 = Soldering lugs
05 = Fast-on 6.3 * 0.8 (spade)
06 = Fast-on 6.3 * 0.8 (spade / soldering)

x: Standard = No letter
B = without Y2-Capacitors (medical version)
A = smaller Y2-Capacitors (470 pF)
A1 = smaller Y2-Capacitors (220 pF)
C2 = smaller Y2-Capacitors (680 pF)
C1 = smaller Y2-Capacitors (1.0 nF)
C = smaller Y2-Capacitors (1.5 nF)

No letter = Standard housing: IEC-inlet with flanges
S = Snap-in version (mounting on vertical side): IEC-inlet and housing without flanges
S1= Snap-in version (mounting on horizontal side): IEC-inlet and housing without flanges.