

Licence for



CENELEC ENEC Agreement Licence Ref. No. SE/0037-52A

Product:	Filter unit for radio interference suppression
Type designation:	FN28-series
Test Report No.	702038-01
Licence holder:	SCHAFFNER EMV AG Components Safety Service Nordstrasse 11 CH-4542 Luterbach SWITZERLAND
The product complies with the standard(s):	EN 60939:2005
Licence holder is authorized to use the mark with the following limitations:	-
Date of expiry:	16 February 2017

Additional information in Appendix

Certification Body Intertek Semko AB, Product Certification *Place* Kista - Stockholm

Signed Pia Östgaard *Date* 1 March 2007
Pia Östgaard

Internal reference: SUL

A handwritten signature in black ink, appearing to be 'Pia Östgaard', written over a horizontal line.

This Licence is the result of testing a sample of the product submitted, in accordance with the provisions of the relevant specific standard. A copy of the Licence shall be filed in the place of manufacturing. The Licence has been established by a body which is a signatory to the ENEC Agreement ratified by CENELEC Marks Committee on 10 April 1992.

Intertek Semko AB
Torshamnsgatan 43, Box 1103, SE-164 22 Kista, Sweden
Telephone +46 8 750 00 00, Fax +46 8 750 60 30, www.sweden.intertek-etlsemko.com
Registered in Sweden: No SE556024059901, Registered office: As address

APPENDIX**CENELEC ENEC Agreement Licence Ref. No. SE/0037-52A**

Test Report No.

702038-01

Technical data

<i>Type designation</i>	FN 28*_*_*****
<i>Rated voltage</i>	250VAC
<i>Rated current</i>	1, 2, 4, 6, 10A.
<i>Capacitance</i>	0.22uF X2 + 2 x 2.2nF Y2
<i>Inductance</i>	2 x 7.5, 2.0, 1.0, 0.45, 0.34mH + 0, 400uH
<i>Resistance</i>	1Mohm
<i>Rated temperature</i>	40°C
<i>Climatic category</i>	25/085/21
<i>Trade mark</i>	SCHAFFNER

Capacitors included:

X2	Y2
Evvox Rifa type PHE 840	Murata type KY or NanJing Yuye type CT7Y5U

Or equivalent capacitor which is certified according to EN 132400 or EN 60384-14.

Appliance inlet included:

Schaffner type 477-05***

Switch included:

SECE type A4-23 or Ningbo Yang Guang type YSR-7

Or equivalent switch which is approved according to EN 61058.

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Alternative designs:

Type summary FN 28... –Series

Type	Cur. [A]	Induct. [mH]	Wire-Ø [mm]	Turns	Induct. [µH]	Wire-Ø [mm]	Turns	X2-Caps [µF]	Y2-Caps [nF]	Resistor [MΩ]
FN 28x - 1-....	1	7.5	0.315	53	-			0.22	2.2	1
FN 28xE- 1-....	1	7.5	0.315	53	400	1.2	13	0.22	2.2	1
FN 28x - 2-....	2	2.0	0.63	27	-			0.22	2.2	1
FN 28xE- 2-....	2	2.0	0.63	27	400	1.2	13	0.22	2.2	1
FN 28x - 4-....	4	1.0	0.8	19	-			0.22	2.2	1
FN 28xE- 4-....	4	1.0	0.8	19	400	1.2	13	0.22	2.2	1
FN 28x - 6-....	6	0.45	1.12	13	-			0.22	2.2	1
FN 28xE- 6-....	6	0.45	1.12	13	400	1.2	13	0.22	2.2	1
FN 28x -10-....	10	0.34	1.4	11	-			0.22	2.2	1
FN 28xE-10-....	10	0.34	1.4	11	100	1.2	7	0.22	2.2	1

.... >>> see type designation

x: 2; 4; 6 fixing and fuses >>> see type designation

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Type designation FN 28... –Series

Article code: FN 28X E- 2-06-Q-D-1

IEC-Inlet (Fixing and Fuses)

PartNo.	Style	Fuses
2 =	477-053 narrow side fixing	2 fuses
4 =	477-055 long side fixing	2 fuses
6 =	477-057 Snap-In fixing	2 fuses

* Supplementary Components

- A = Y2-Capacitors have 470pF
- A1 = Y2-Capacitors have 220pF
- B = For medical applications (without Y2-Capacitors)
- E = grounding inductor provided
- R = Discharge resistor (only if C-X \leq 0.1 μ F)
= or their combinations e.g. ER

Current Rating

1; 2; 4; 6; 10 A

Terminals

06 = Faston 6.3x0.8 (spade / soldering)

* X2 - Capacitors rated value

Q=0.22 μ F (Standard value)
G=0.01 μ F; H=0.015 μ F; I=0.022 μ F; K=0.033 μ F; L=0.047 μ F
M=0.068 μ F; N=0.1 μ F; P=0.15 μ F;

* Y2 - Capacitors rated value

D=2.2nF (Standard value);
B=1nF; C=1.5nF; E=3.3nF; F=4.7nF

* Safety unimportant variations (e.g. colour point)

1; 2; 3 etc., current numbers

* Required only for the following options: E, R as above or capacitors not standard value and for safety unimportant variations.

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Manufacturing site(s):

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Shanghai, 201319
CHINA

This certificate replaces previously issued ref. No. SE/0037-52 dated 16 February 2007 for type series FN28.
A new certificate has been issued on account of added information about included switch.

1 March 2007