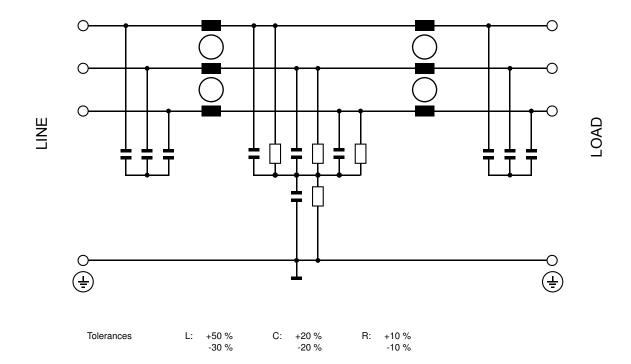


Low leakage EMI filter for power electronics and converters









Designation:	FS42753-8	80-34
Part Number:	822104	
Customer's Part No.:	10108129	
Document Number:	1041961	A
Created:	LUTSNO 2	2020-10-09
Checked:	LUTLUR 2	2020-10-09
Released:	LUTLUR 2	2020-10-09



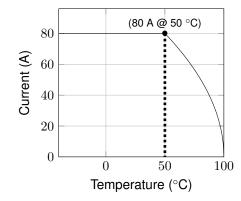
Revision History

|--|

Electrical

Rated Current (I _{th}):	80 A	@ 50 °C amb. Temperature				
Nominal Operating Voltage:	480/277 +/- 10% VAC					
Rated Operating Voltage:	530/305 VAC	530/305 VAC				
Max. Operating Frequency:	60 Hz					
Leakage Current (IEC60939-3):	2.69 mA	@ Rated Voltage and 50 Hz				
Leakage Current Worst Case:	128mA @ Ra	ated Voltage and 50Hz				
Production Line Test Voltage:	2.28 kVDC*	for 2 s (L to L)				
	2.26 kVDC*	for 2 s (L/L to PE)				
	(* Repetition with max. 80 % of the specified values)					
Overvoltage Category (IEC60664-1):	II					
Typ. Power Dissipation:	28.8 W					
Max. DC Resistance @ 25 °C:	1.5 mOhm	L - Ľ				

Current Derating



$$I = I_N \cdot \sqrt{rac{\Theta_{max} - \Theta_{act}}{\Theta_{max} - \Theta_N}}$$
 for $\Theta_{act} > \Theta_N$ and $\Theta_{act} < \Theta_{max}$

rated current at Θ_N actual ambient temperature temperature at which the rated current is defined rated maximum temperature of the component

Environmental & Reliability

Operating Ambient Temp. Range:	-40 °C to 100 °C
Storage Temp. Range:	-40 °C to 100 °C
Cooling:	AN
Pollution Degree (IEC60664-1):	2
Climatic Class (IEC60068-1):	40/100/21

 I_N

 Θ_{act}

 Θ_N

 Θ_{max}



Standards, Certifications and Compliances

Design Standard	Certification
UL 60939-3	E493879
IEC 60939-3	SE-ENEC-0037-71

Material Compliances

ROHS 2011/65/EU, 2015/863/EU

Mechanical

Line:	(-34) STB 25	Type:	Safety terminal block
		Torque (Nm):	4.0-4.5
		Flex Wire (AWG):	10-2
		Solid Wire (mm2):	6-35
		Flex Wire (mm2):	6-25
Load:	(-34) STB 25	Type:	Safety terminal block
		Torque (Nm):	4.0-4.5
		Flex Wire (AWG):	10-2
		Solid Wire (mm2):	6-35
		Flex Wire (mm2):	6-25
PE:	Thread M6	Torque (Nm):	3.5-4.0
Net Weight:	4.3 kg		
IP Class (IEC60529-1):	20		

Annex 1

Description: Mechanical Drawing

Document Number: 1004984

Annex 2

Description: Cross Reference Dimensions FS42753 series

Marking

Annex 3

Description: Product Label

Document Number: 1040971

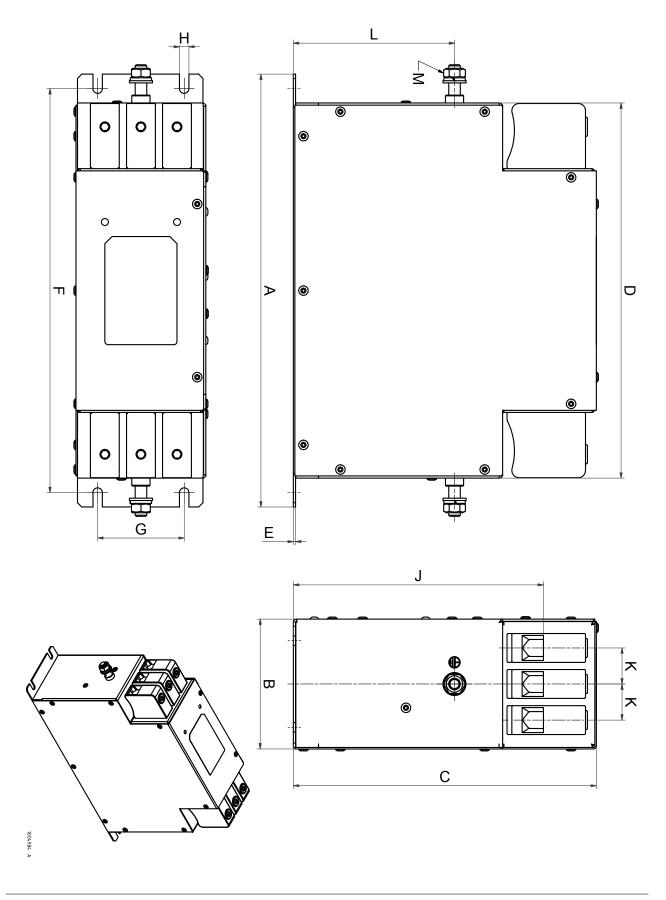
DSC: 1041961 - A DSC: v2.0.1 Page: 3 of 9



Description: Packaging Label

Document Number: 1043894





FS42753-83-35 FS42753-115-35



Annex 2

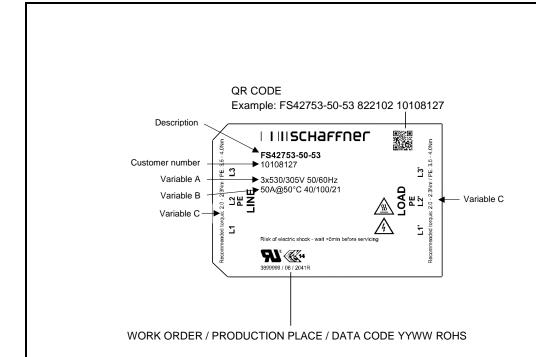
FS42753-10-44												
Α	В	С	D	Е	F	G	Н	J±2 102	K	L±1	М	
185	40	120	157	0.8	175	20	4.5	102	11	76	M5	
FS4275												
Α	В	С	D	E	F	G	Н	J±2 122	K	L±1	М	
195	45	140	164	0.8	180	25	5.4	122	11	93	M5	
FS4275												
FS4275	3-25-33											
Α	В	С	D	E	F	G	Н	J±2 126	K	L±1	М	
210	45	145	174	0.8	195	25	5.4	126	13	96	M5	
FS4275												
Α	В	С	D	Е	F	G	Н	J±2 149	K	L±1	М	
235	50	168	207	1	220	30	5.4	149	13	115	M6	
FC 427F	2 50 52											
FS4275												
Α	В	С	D	Е	F	G	Н	J±2 156	K	L±1	M	
255	65	180	226	1	240	45	5.4	156	16	120	M6	
FS4275	3-80-34											
			1	1								
A	В	С	D	E	F	G	Н	J±2 172	K	L±1	M	
290	80	205	250	1.2	270	50	6.5	172	22	110	M6	

 A
 B
 C
 D
 E
 F
 G
 H
 J±2
 K
 L±1
 M

 300
 90
 210
 260
 1.5
 280
 60
 6.5
 173
 25
 112
 M8

Dimensions FS42753 series





Material	Description	Customer number	Variable A	Variable B	Variable C
822102	FS42753-50-53	10108127	3x530/305V 50/60Hz	50A@50°C 40/100/21	2.0 - 2.3Nm / PE: 3.5 - 4.0Nm
822103	FS42753-63-53	10108128	3x530/305V 50/60Hz	63A@50°C 40/100/21	2.0 - 2.3Nm / PE: 3.5 - 4.0Nm
822104	FS42753-80-34	10108129	3x530/305V 50/60Hz	80A@50°C 40/100/21	4.0 - 4.5Nm / PE: 3.5 - 4.0Nm
822105	FS42753-83-35	10108130	3x530/305V 50/60Hz	83A@50°C 40/100/21	7.0 - 8.0Nm / PE: 8.0 - 9.0Nm
822106	FS42753-115-35	10108122	3x530/305V 50/60Hz	125A@50°C 40/100/21	7.0 - 8.0Nm / PE: 8.0 - 9.0Nm

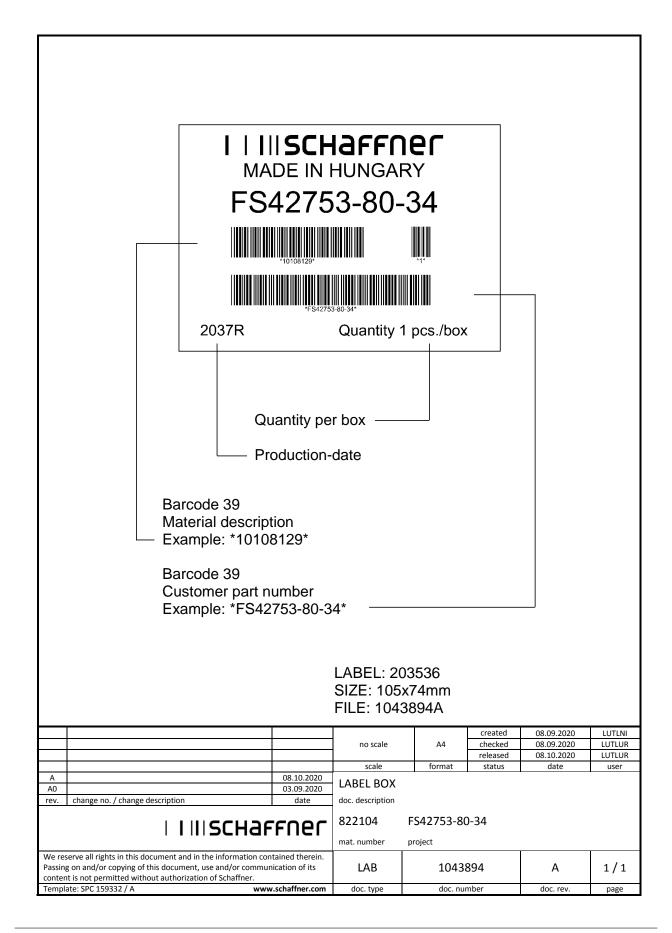
Label printout directly from ZO11N based on the settings from Classification in SAP! Packing labels are also printed directly from ZO11N!

Note: Production place LABEL: 202349
05 for Thailand SIZE: 75x50mm
06 for Hungary FILE: 1040971A

88 for China

					created	08.10.2020	LUTEJE	
			no scale	A4	checked	08.10.2020	LUTLUR	
					released	08.10.2020	LUTLUR	
Α	Add approvals	08.10.2020	scale	format	status	date	user	
A1	Add approvals	08.10.2020	LABEL					
A0		16.07.2020	LADEL					
rev.	change no. / change description	date	doc. description					
	I schaffner			FS42753-SERIES				
			mat. number	project				
We reserve all rights in this document and in the information contained therein. Passing on and/or copying of this document, use and/or communication of its content is not permitted without authorization of Schaffner.			LAB	1040971		А	1/1	
Templ	ate: SPC 159332 / A www.:	schaffner.com	doc. type	doc. nur	nber	doc. rev.	page	







Disclaimer

- 1. Product suitability for a given application must ultimately be determined by the user (the party that is putting the product into operation) on a case by case basis. Product functionality and suitability must be determined with proper verification within the final application. Neither Schaffner nor its subsidiaries will assume liability for any consequential downtimes or damages resulting from use of products outside their specifications or due to incomplete verification in application.
- 2. Do not attempt to install, operate, maintain or inspect any product until you have read and understood the related safety notes and installation guidelines delivered with the product. If not available, general safety and installation notes are available on Schaffner Website: www.schaffner.com.

Non-qualified persons are not allowed to install or maintain Schaffner products!

- 3. The user is responsible to observe compliance with all local installation and electrical regulations.
- 4. All products must have their safety earth connected using properly dimensioned connectors. It is recommended to avoid chaining safety earth of multiple equipment together.
- 5. Warnings, cautions and notes as displayed on the product label must be observed at all times.
- 6. Overcurrent or overvoltage applied to products or resulting from an improper setup (i.e. resonances) may cause substantial damages, represent a fire hazards and lead to body injury or death.
- 7. Unless specifically indicated in datasheet, products do not contain any protection components. Suitable overcurrent and overvoltage protection circuits must be placed upstream of the product to avoid any consequential damage in case of any system malfunction.
- 8. Products with capacitive elements can have significant amount of stored energy. If misused or mishandled it could lead to body harm, damage and eventually fire hazard.
- 9. Products have limited lifetime and are subject to ageing effects heavily depending on operating conditions and environment. Schaffner recommends to regularly check any inbuilt capacitance to ensure constant performance and considering replacement after 12 years from initial commissioning unless otherwise indicated. Even when properly operated as in specifications, it is not possible to rule out single malfunctioning or failures of components happening before the usual lifetime.

User is responsible to evaluate the environment in the application and eventually perform preventive maintenance before the above recommendation. User shall also evaluate risk of possible failures and implement proper containment actions to avoid damage or injury.

10. Schaffner reserves the right to change raw materials used in this product during its life cycle on the companys own discretion, mainly for the purpose of managing and maintaining a capable international supplier base and for ensuring prompt product availability at all times. All changes having no impact on form, fit, function and technical specifications according to company internal evaluation will be carried out without notification.

Stricter change management process can be implemented on request.

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