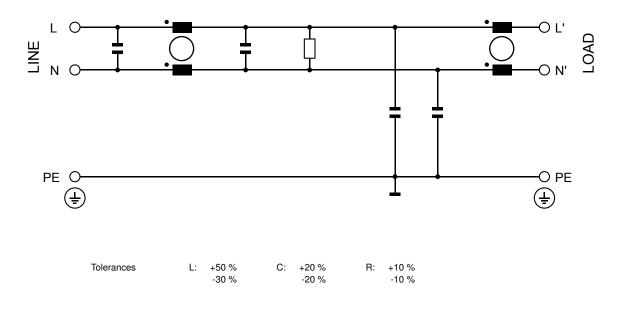


EMI filter for power electronics and converters





Designation:	FS43956-20-07-LL
Part Number:	823443
Customer's Designation:	AX-FIC1021-SE-LL

Document Number: 1077121 B	
Created: LUTSNO 2023-01-27	
Checked: LUTFVA 2023-02-01	
Released: LUTLUR 2023-02-02	

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Revision History

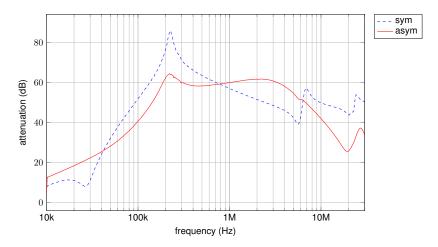
В	2023-02-02	LUTLUR	Label update	(Change Number: 20009375)
Α	2023-01-24	LUTLUR	initial version	

Electrical

Rated Current (I _{th}):	20.2 A	@ 50 °C amb. Temperature
Rated Current (I _{th1}):	22.1 A	@ 40 °C amb. Temperature
Nominal Operating Voltage:	230 +/- 10%	VAC
Rated Operating Voltage:	250 VAC	
Max. Operating Frequency:	60 Hz	
Leakage Current (IEC60939-3):	2.59 mA	@ Rated Voltage and 50 Hz
Production Line Test Voltage:	2.25 kVDC*	for 2 s (L to PE)
	1.1 kVDC*	for 2 s (L to N)
	(* Repetition with r	nax. 80 % of the specified values)
Overvoltage Category (IEC60664-1):		
Max. DC Resistance @ 25 °C:	15.1 mOhm	L - Ľ

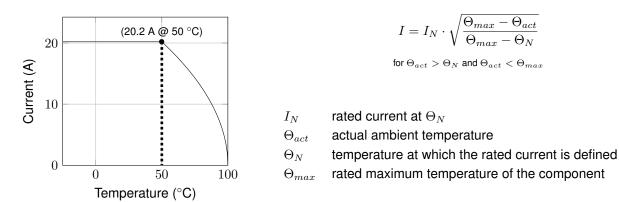
Typical Insertion Loss

Per CISPR 17 (50 Ω / 50 $\Omega)$





Current Derating



Environmental & Reliability

Operating Ambient Temp. Range:	-25 °C to 100 °C
Cooling:	AN
Pollution Degree (IEC60664-1):	3
Climatic Class (IEC60068-1):	25/100/21

Standards, Certifications and Compliances

Design Standard	Certification	
UL 60939-3		
IEC 60939-3		
UL 61800-5-1		
IEC 61800-5-1		
CSA C22.2 NO. 274		

Product Compliances

Low voltage directive 2014/35/EU

The Electrical Equipment (Safety) Regulations S.I. 2016/1101

Material Compliances

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



Mechanical

Line:	see comment		
Load:	(-07) Lace Ferrule	Туре:	See Mechanical Drawing
PE:	Thread M5	Torque (Nm):	2.0-2.2
Net Weight:	0.81 kg		
IP Class (IEC60529-1):	20		

Comment to Line Terminal

Type: DG637-6.35-02P-14-00AH Torque (Nm): 0.5 Flex Wire (AWG): 28 - 10 Flex Wire (mm2): 0.2 - 4

Annexes

Annex 1

Description:	Mechanical Drawing
Document Number:	1035714

Annex 2

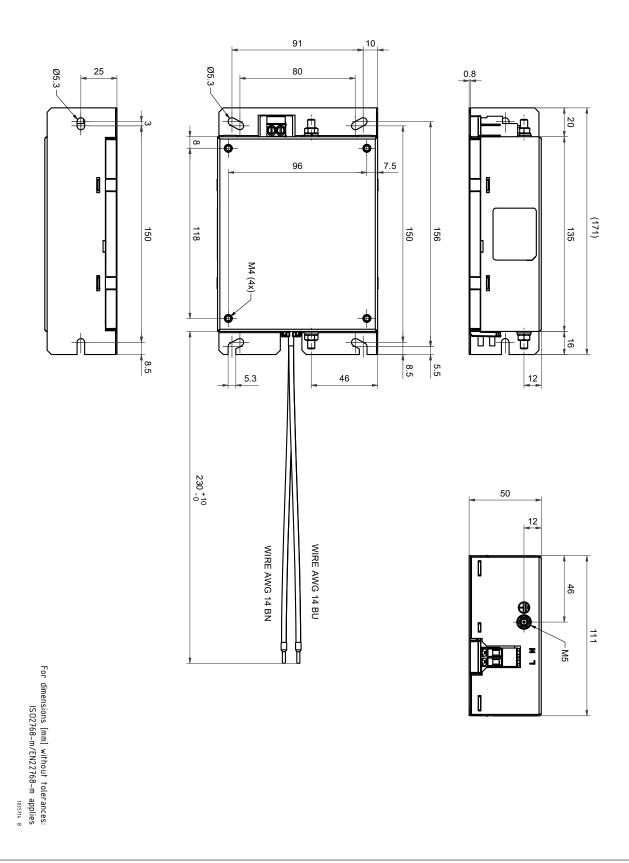
Description:	Product Label
Document Number:	1079061

Annex 3

Description:	Packaging Label
Document Number:	1079064



Annex 1 - Mechanical Drawing

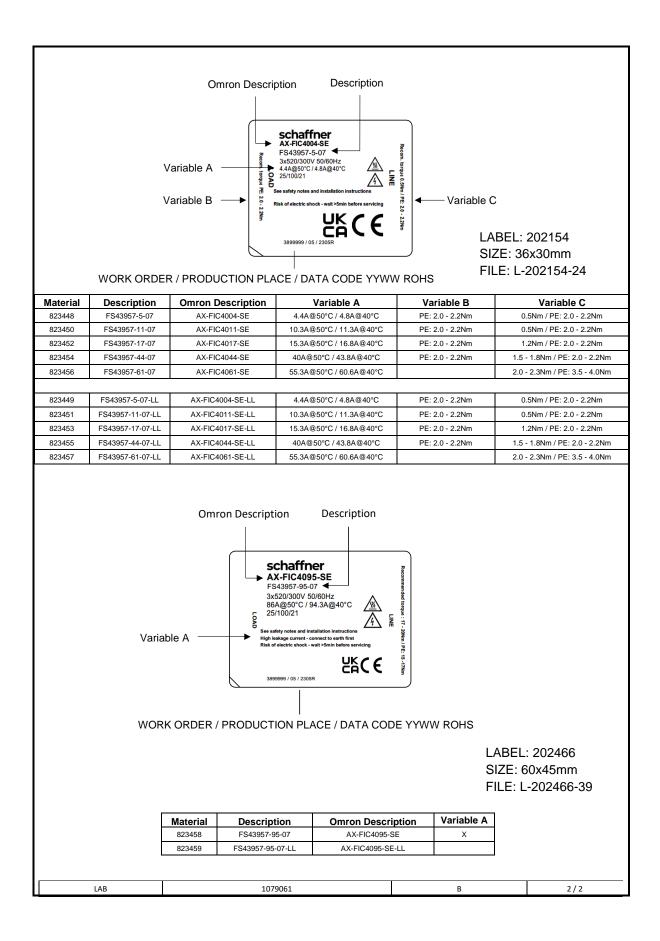




Annex 2 - Product Label

	Omron Description Variable A Variable B Variable B								
	Mat.	Description	Omron Descrip	otion Variab		Variable B	Variable (•	1
	823440	FS43956-14-07	AX-FIC1014-SE		ле A 50°C / 15.1A@40°C	-	0.5Nm / PE: 2		
	823442	FS43956-20-07	AX-FIC1021-SE		50°C / 22.1A@40°C	-	0.5Nm / PE: 2		
	823444	FS43956-26-07	AX-FIC1026-SE		0°C / 28.5A@40°C	x	1.2Nm / PE: 2		
1	823444	FS43956-45-07	AX-FIC1026-SE		50°C / 49.7A@40°C	-		PE: 2.0 - 2.2Nm	1
	823440	1343930-43-07	AX-FIG 1045-SE	43.4A@	30 C / 49./ A@40 C	· ×	1.5 - 1.000117	FE. 2.0 - 2.2MIII	
	823441	FS43956-14-07-LL	AX-FIC1014-SE-LL	13.8A@	50°C / 15.1A@40°C	:	0.5Nm / PE: 2	2.0 - 2.2Nm	
	823443	FS43956-20-07-LL	AX-FIC1021-SE-LL	20.2A@	50°C / 22.1A@40°C	;	0.5Nm / PE: 2	2.0 - 2.2Nm	
					0°C / 28.5A@40°C		1.2Nm / PE: 2		
					50°C / 49.7A@40°C			PE: 2.0 - 2.2Nm	
	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: 202154 05 for Thailand SIZE: 36x30mm 88 for China FILE: L-202154-24								
							created	30.01.2023	LUTMST
	20000275 11	ato Tost Disa and Labo		20 01 2022	no scale	A4	checked	30.01.2023	LUTLUR
B A	20009375,Upc New with CE a	late Test Plan and Labe nd UKCA	21	30.01.2023	scale	format	released status	30.01.2023 date	LUTLUR user
A A1	New with CE a			28.11.2022		ioiiilat	Jiaius	uale	usel
A0				10.10.2022	LABEL				
rev.	rev. change no. / change description date doc. description Schaffner several FS43956 / FS43957-SERIES mat. number project								
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	ate: 02-31777 A			schaffner.com	doc. type	doc. nur	nber	doc. rev.	page







Annex 3 - Packaging Label

no scale A4 <u>checked</u> 21.12.2022 LU							
			no scale	A4 checked	21.12.2022	LUTMST	
A A2	EAN code 4549734841177 EAN code 4549734841177	21.12.2022 21.12.2022	scale	released format status	21.12.2022 date	LUTLUR user	
A1	Removed CE and UKCA	12.10.2022		INER BOX)			
A0 rev.	change no. / change description	10.10.2022 date	doc. description				
therein Passin conten	g on and/or copying of this document, use and/or com t is not permitted without authorization of Schaffner.	contained munication of its		FS43956-20-07 project 1079064	A	1 / 1	
		schaffner.com	doc. type	doc. number	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.