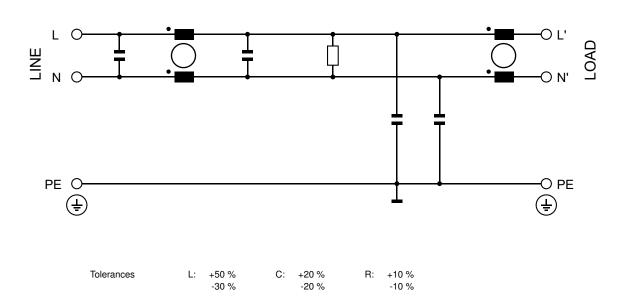


EMI filter for power electronics and converters





Designation:	FS43956	6-14-07-LL
Part Number:	823441	
Customer's Designation:	AX-FIC1	014-SE-LL
Document Number:	1077119	F
Document Number: Created:	1077119 LUTSNO	F 2023-11-03
		•
Created:	LUTSNO	2023-11-03



Revision History

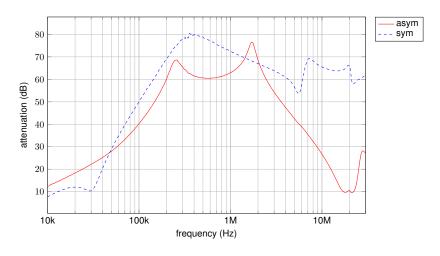
F	2023-11-07	LUTLUR	Approval Logo update	(Change Number: 20009922)
E	2023-10-20	LUTLUR	Drive Standards added	(Change Number: 20009831)
D	2023-06-23	LUTLUR	Update DC Res, Label, Weight	(Change Number: 20009638)
С	2023-02-02	LUTLUR	Label update	(Change Number: 20009375)
В	2023-01-12	LUTLUR	Add product compliance label	(Change Number: 20009306)
Α	2023-01-11	LUTLUR	initial version	

Electrical

Rated Current (I _{th}):	13.8 A	@ 50 °C amb. Temperature
Rated Current (I _{th1}):	15.1 A	@ 40 °C amb. Temperature
Nominal Operating Voltage:	230 +/- 10%	VAC
Rated Operating Voltage:	250 VAC	
Max. Operating Frequency:	60 Hz	
Leakage Current (IEC 60939-3):	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 (IEC 60664-1):	III	
Max. DC Resistance @ 25 °C:	16.5 mOhm	L - Ľ

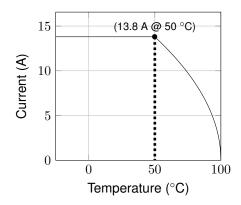
Typical Insertion Loss

Per CISPR 17 (50 Ω / 50 Ω)





Current Derating



$$I = I_N \cdot \sqrt{\frac{\Theta_{max} - \Theta_{act}}{\Theta_{max} - \Theta_N}}$$

for $\Theta_{act} > \Theta_N$ and $\Theta_{act} < \Theta_{max}$

 I_N rated current at Θ_N

 Θ_N

 Θ_{max}

 Θ_{act} actual ambient temperature

temperature at which the rated current is defined

rated maximum temperature of the component

Environmental & Reliability

Operating Ambient Temp. Range:	-25 °C to 100 °C
Cooling:	AN
Pollution Degree (IEC 60664-1):	3
Climatic Class (IEC 60068-1):	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	E343171	250V			
UL 61800-5-1	E343171	250V			

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

REACH No. 1907/2006



Mechanical

Line:	see comment		
Load:	(-07) Lace Ferrule	Type:	See Mechanical Drawing
PE:	Thread M5	Torque (Nm):	2.0-2.2
Net Weight:	0.559 kg		
IP Class (IEC 60529-1):	20		

Comment to Line Terminal

Type: DG636-6.35-02P-14-00AH

Torque (Nm): 0.5

Flex Wire (AWG): 26 - 10 Flex Wire (mm2): 1.5 - 4

Annexes

Annex 1

Description:	Mechanical Drawing
Document Number:	1091330

Annex 2

Description:	Product Label
Document Number:	1090762

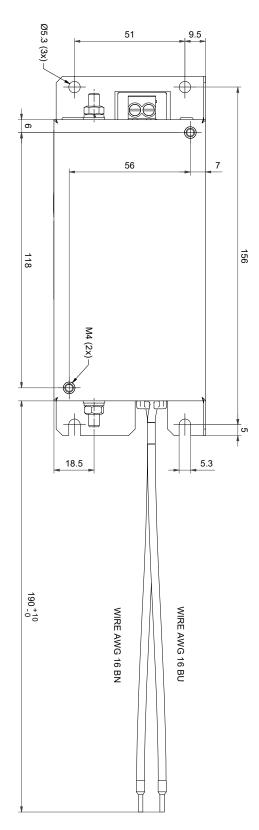
Annex 3

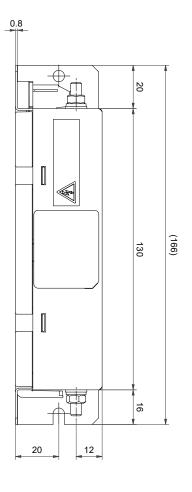
Description:	Packaging Label
Document Number:	1079067

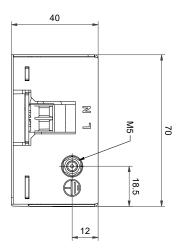
DSC: 1077119 - F DSC: v2.3 Page: 4 of 9



Annex 1 - Mechanical Drawing





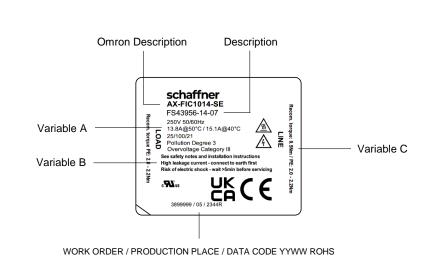


For dimensions [mm] without tolerances: IS02768-m/EN22768-m applies

1091330 A



Annex 2 - Product Label



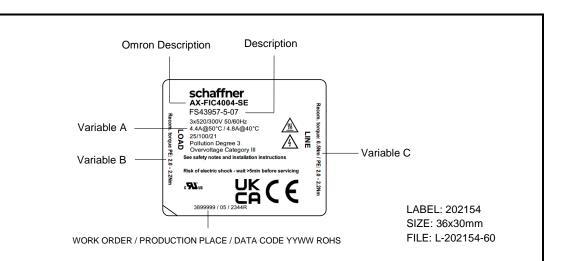
Mat.	Description	Omron Description	Variable A	Variable B	Variable C
823440	FS43956-14-07	AX-FIC1014-SE	13.8A@50°C / 15.1A@40°C	x	0.5Nm / PE: 2.0 - 2.2Nm
823442	FS43956-20-07	AX-FIC1021-SE	20.2A@50°C / 22.1A@40°C	х	0.5Nm / PE: 2.0 - 2.2Nm
823444	FS43956-26-07	AX-FIC1026-SE	26A@50°C / 28.5A@40°C	х	1.2Nm / PE: 2.0 - 2.2Nm
823446	FS43956-45-07	AX-FIC1045-SE	45.4A@50°C / 49.7A@40°C	х	1.5 - 1.8Nm / PE: 2.0 - 2.2Nm
823441	FS43956-14-07-LL	AX-FIC1014-SE-LL	13.8A@50°C / 15.1A@40°C		0.5Nm / PE: 2.0 - 2.2Nm
823443	FS43956-20-07-LL	AX-FIC1021-SE-LL	20.2A@50°C / 22.1A@40°C		0.5Nm / PE: 2.0 - 2.2Nm
823445	FS43956-26-07-LL	AX-FIC1026-SE-LL	26A@50°C / 28.5A@40°C		1.2Nm / PE: 2.0 - 2.2Nm
823447	FS43956-45-07-LL	AX-FIC1045-SE-LL	45.4A@50°C / 49.7A@40°C		1.5 - 1.8Nm / 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!

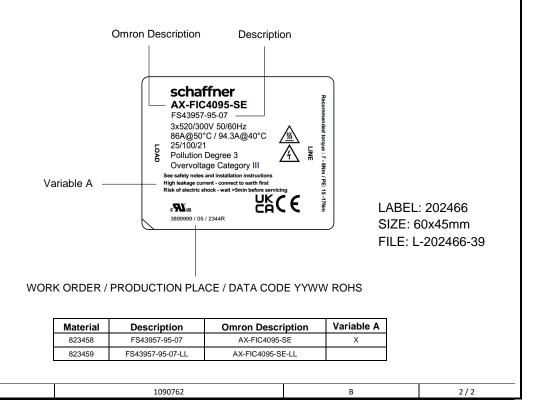
Note: Production place
Under the production place
O5 for Thailand
SIZE: 36x30mm
FILE: L-202154-60

					created	31.10.2023	LUTMST
			no scale	A4	checked	02.11.2023	LUTCAC
В	20009922,Update approval logo FS43956/7_FS44204/5	02.11.2023	1	1	released	02.11.2023	LUTMST
Α	20009831,Add Drive Standard Approvals	05.10.2023	scale	format	status	date	user
A1	20009831,Add Drive Standard Approvals	03.10.2023	LABEL PRODU	ICT	•		•
A0	A0 20009831,Add Drive Standard Approvals 29.09.2023		LABEL PRODU	JCI			
rev.	change no. / change description	date	doc. description				
	scha		S43956/FS	43957-SER	RIES		
Passing	serve all rights in this document and in the information cont g on and/or copying of this document, use and/or communi It is not permitted without authorization of Schaffner.	LAB	1090	762	В	1/2	
Templa	ate: 02-31777 A	schaffner.com	doc. type	doc. nui	mber	doc. rev.	page





Mat.	Description	Omron Description	Variable A	Variable B	Variable C	
823448	FS43957-5-07	AX-FIC4004-SE	4.4A@50°C / 4.8A@40°C	PE: 2.0 - 2.2Nm	0.5Nm / PE: 2.0 - 2.2Nm	
823450	FS43957-11-07	AX-FIC4011-SE	10.3A@50°C / 11.3A@40°C	PE: 2.0 - 2.2Nm	0.5Nm / PE: 2.0 - 2.2Nm	
823452	FS43957-17-07	AX-FIC4017-SE	15.3A@50°C / 16.8A@40°C	PE: 2.0 - 2.2Nm	1.2Nm / PE: 2.0 - 2.2Nm	
823454	FS43957-44-07	AX-FIC4044-SE	40A@50°C / 43.8A@40°C	PE: 2.0 - 2.2Nm	1.5 - 1.8Nm / PE: 2.0 - 2.2Nm	
823456	FS43957-61-07	AX-FIC4061-SE	55.3A@50°C / 60.6A@40°C		2.0 - 2.3Nm / PE: 3.5 - 4.0Nm	
823449	FS43957-5-07-LL	AX-FIC4004-SE-LL	4.4A@50°C / 4.8A@40°C	PE: 2.0 - 2.2Nm	0.5Nm / PE: 2.0 - 2.2Nm	
823451	FS43957-11-07-LL	AX-FIC4011-SE-LL	10.3A@50°C / 11.3A@40°C	PE: 2.0 - 2.2Nm	0.5Nm / PE: 2.0 - 2.2Nm	
823453	FS43957-17-07-LL	AX-FIC4017-SE-LL	15.3A@50°C / 16.8A@40°C	PE: 2.0 - 2.2Nm	1.2Nm / PE: 2.0 - 2.2Nm	
823455	FS43957-44-07-LL	AX-FIC4044-SE-LL	40A@50°C / 43.8A@40°C	PE: 2.0 - 2.2Nm	1.5 - 1.8Nm / PE: 2.0 - 2.2Nm	
823457	FS43957-61-07-LL	AX-FIC4061-SE-LL	55.3A@50°C / 60.6A@40°C		2.0 - 2.3Nm / PE: 3.5 - 4.0Nm	





Annex 3 - Packaging Label





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.