



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



2-stage filter for 3-phase systems with neutral conductor



### Description

- Terminals for three phases, neutral conductor and ground

### Standards

- IEC 60939  
- UL 1283, Edition 5, CSA 22.2 No. 8-M1986, @ Ta 75 °C

### Approvals

- VDE Certificate Number: 40031052  
- UL File Number: E72928

### Applications

- Voltage rating 520 VAC for world wide acceptance  
- Protection against interference voltage from the mains  
- Especially designed for industrial applications such as: Frequency Converters, Stepper Motor Drives, UPS-Systems, Inverters

### Weblinks

[pdf datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

### Technical Data

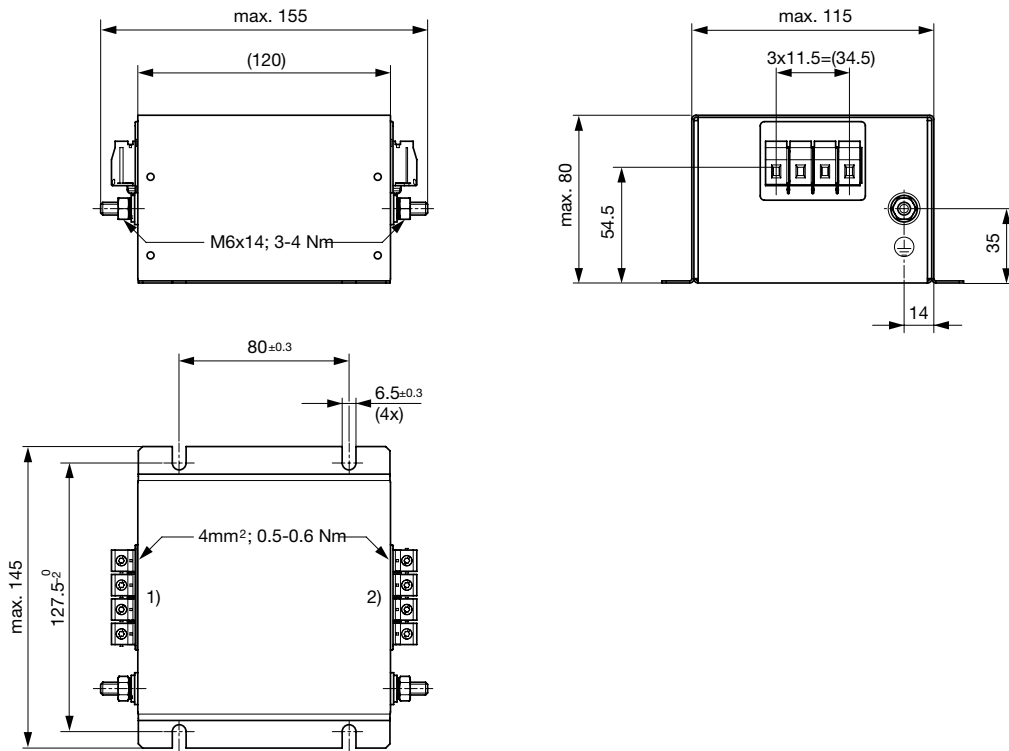
Rated Current	8 - 200 A
Rated voltage	300/520 VAC, 50/60 Hz
Approval for	8 - 200 A @ 50 (75) °C / 300/520 VAC; 50/60 Hz
Overload Current	1.5 x I <sub>r</sub>
Dielectric Strength	300/520 VAC: 2.25 kVDC between L-L 1.7 kVDC between L-N 2.75 kVDC between L-PE 2.75 kVDC between N-PE Test voltage 2 sec
Number of Filter Stages	2-stage
Weight	1.1 - 8.6 kg
Material: Housing	Metal
Sealing Compound	UL 94V-0

Mounting	Screw-on mounting on chassis
Terminal	Screw clamps
Operating Temperature	-25 °C to 100 °C
Climatic Category	25/100/21 acc. to IEC 60068-1
Degree of Protection	IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
MTBF	> 200'000h acc. to MIL-HB-217 F

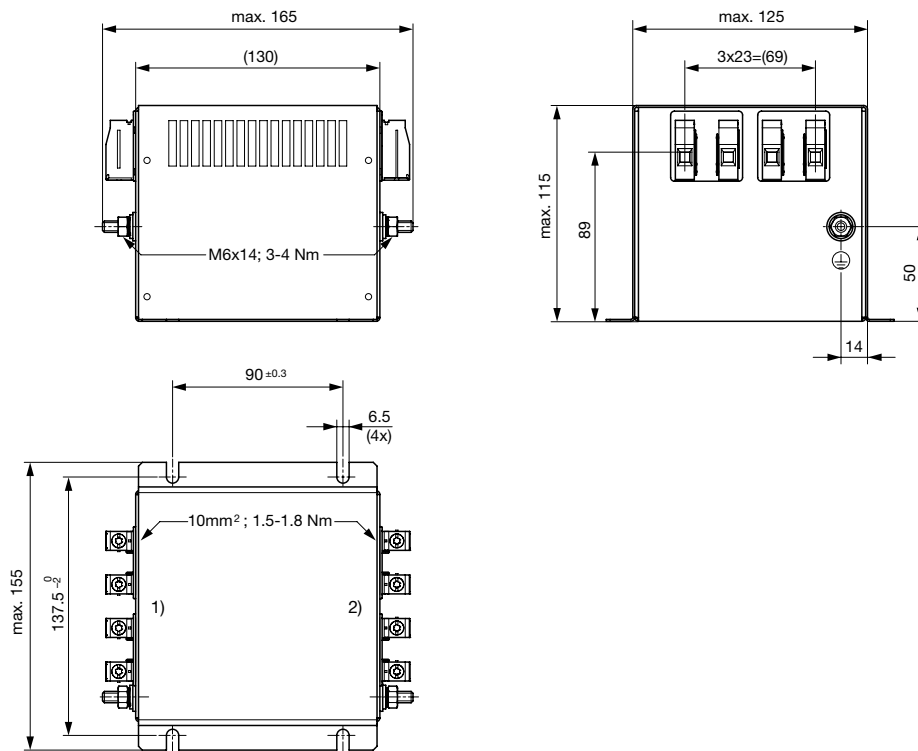
Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [General Product Information](#)

Dimension

Case 2A

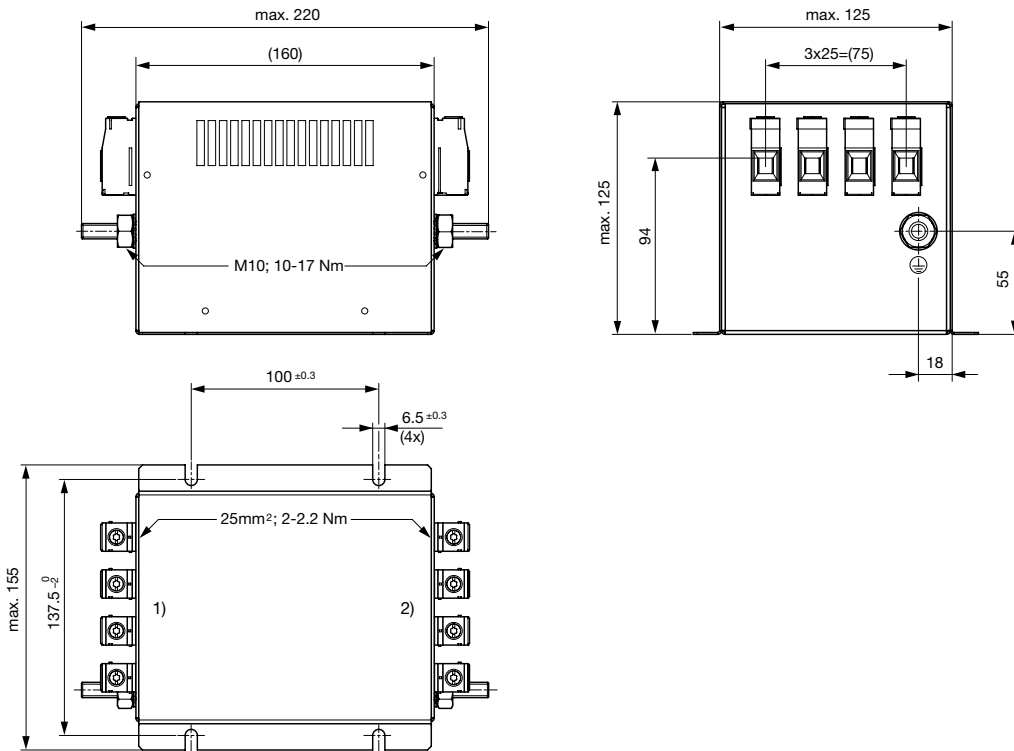


1) Line  
2) Load  
Case 2B

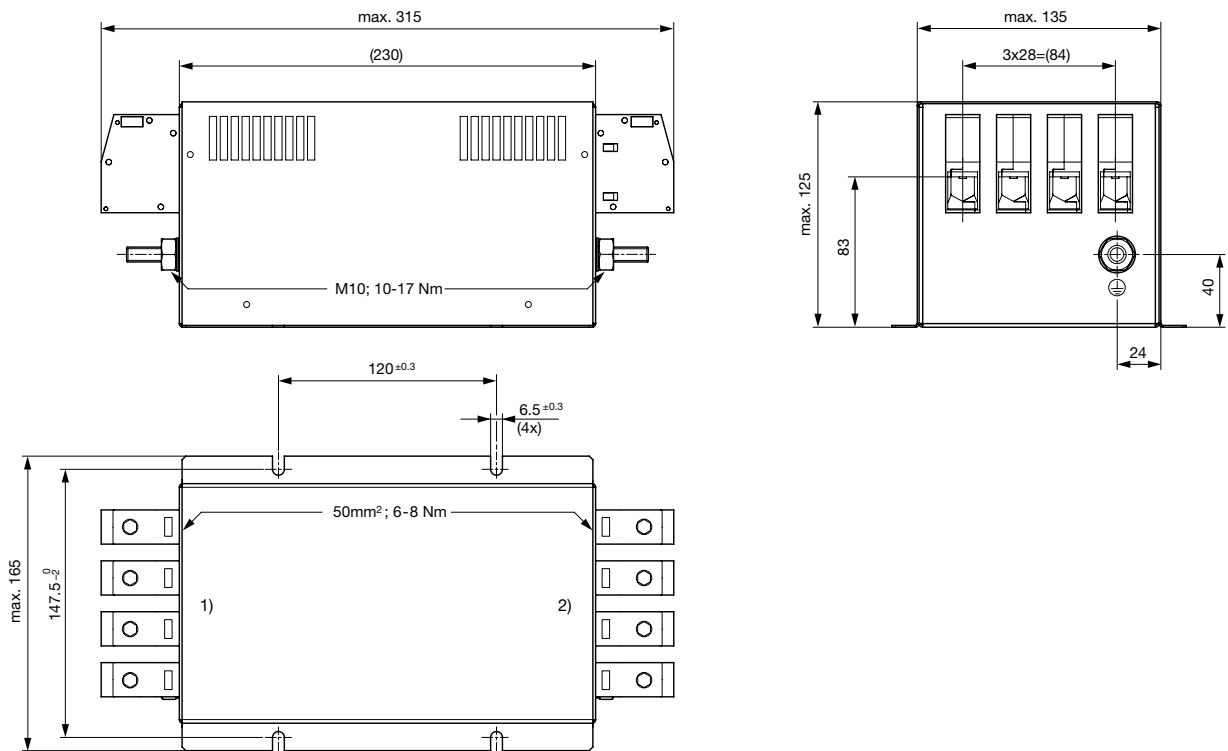


1) Line  
2) Load

Case 2C

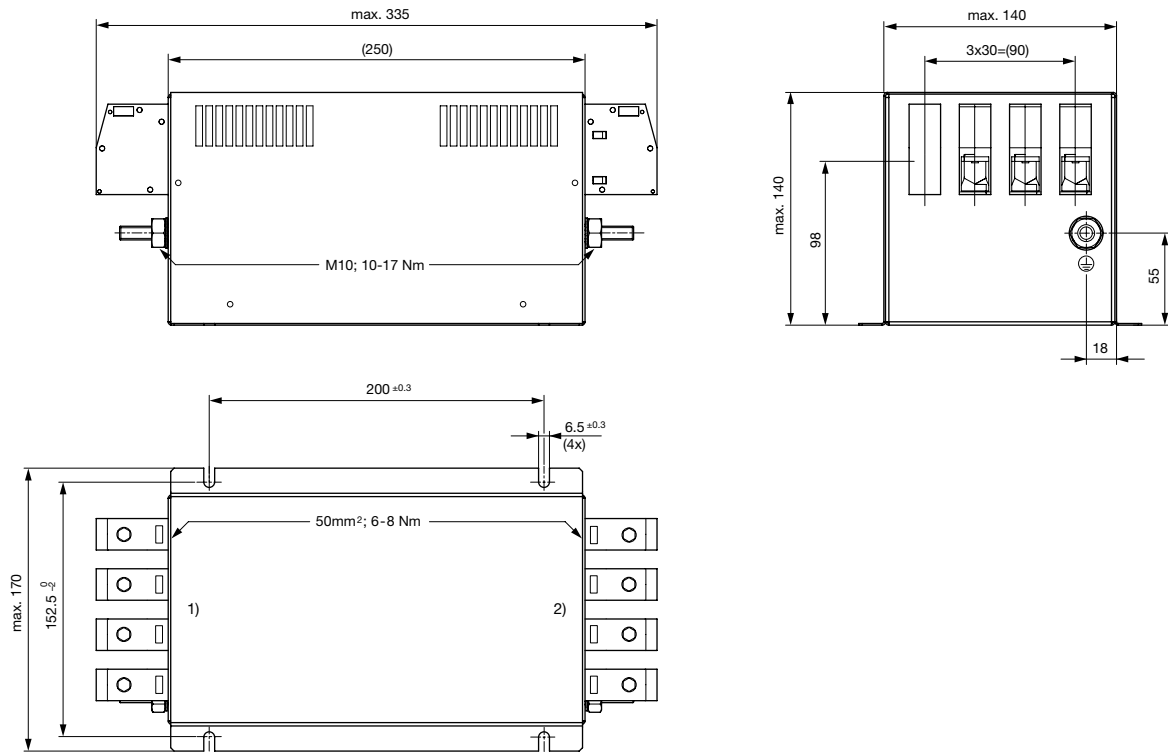


- 1) Line
  - 2) Load
- Case 2D

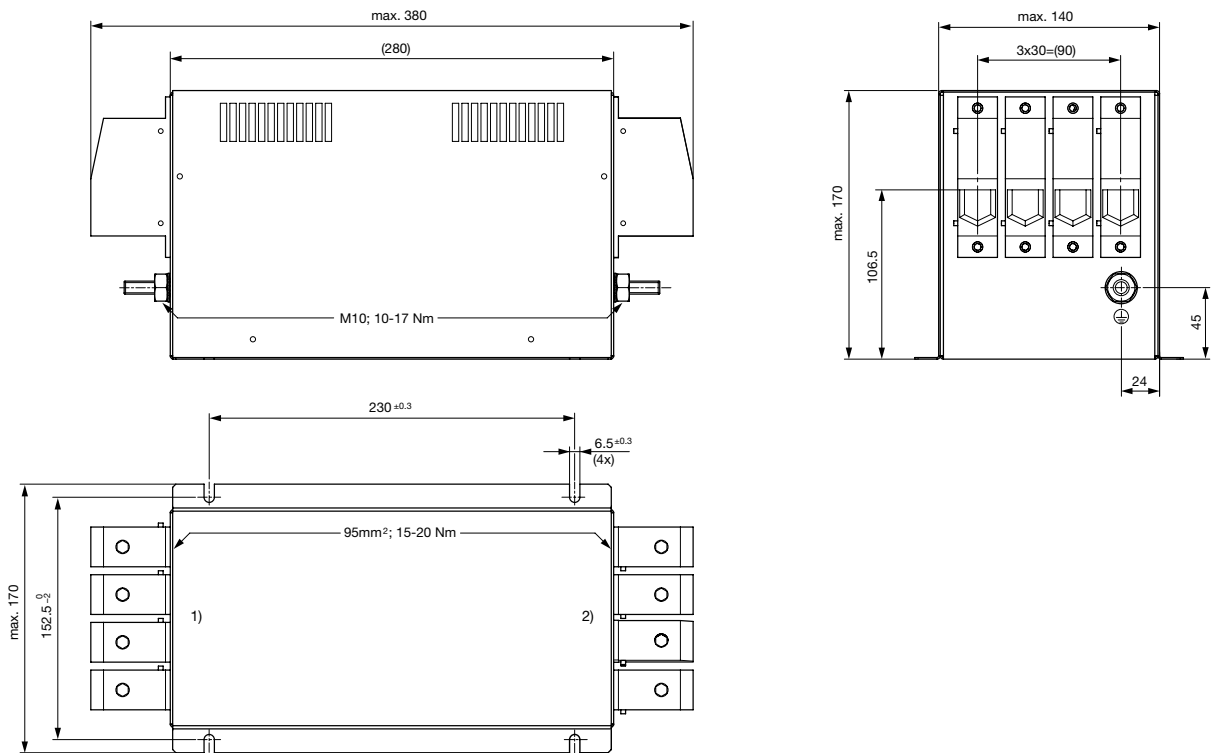


- 1) Line
- 2) Load

Case 2E



- 1) Line
  - 2) Load
- Case 2F

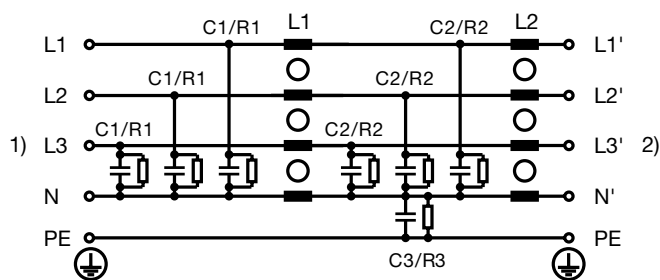


- 1) Line
- 2) Load

Technical data to the filter components

Rated Current @ Ta 50°C (75°C) [A]	L1 [mH]	L2 [μH]	C1 [μF]	C2 [μF]	C3 [μF]	R1 [MΩ]	R2 [MΩ]	R3 [MΩ]
8 (5)	2	4	2.2	2.2	3.4	-	1	2
16 (11)	1.3	12	2.2	2.2	3.4	-	1	2
25 (16)	1.6	12	4.7	4.7	3.4	1	1	2
36 (21)	1	12	4.7	4.7	3.4	1	1	2
64 (40)	0.7	7.5	4.7	4.7	3.4	1	1	2
80 (50)	0.6	9	8.2	8.2	3.4	1	1	2
120 (96)	0.6	9	13.6	13.6	3.4	0.5	0.5	2
160 (100)	0.4	9	13.6	13.6	3.4	0.5	0.5	2
200 (140)	0.3	9	13.6	13.6	3.4	0.5	0.5	2

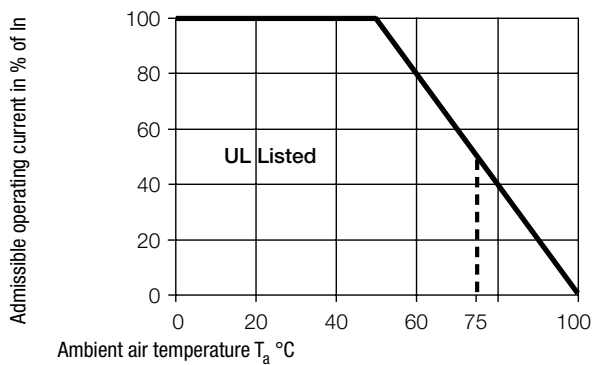
Diagrams



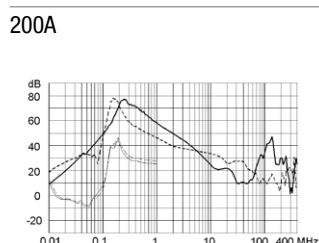
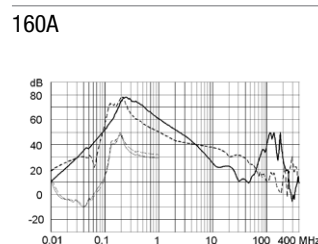
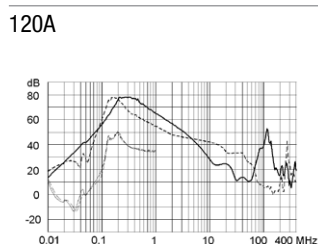
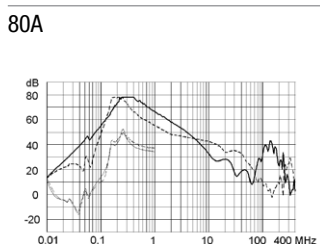
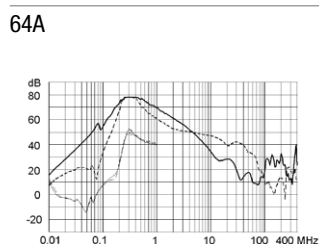
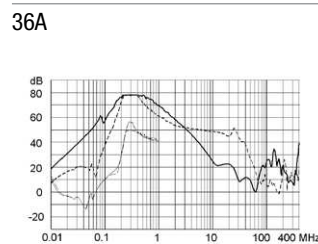
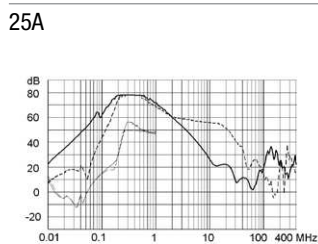
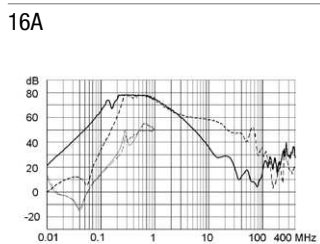
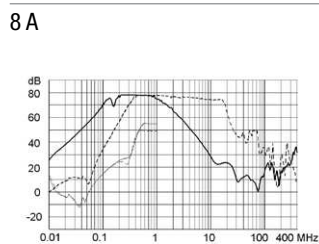
- 1) Line
- 2) Load

Derating Curves

Permissible Working Current as a Function of Ambient Temperature



**Attenuation Loss** . . . 0.1/100Ω differential mode ..... 100/0.1Ω differential mode - - - - 50Ω differential mode \_\_\_\_ 50Ω common mode  
Industrial version



**All Variants**

Rated Current @ Ta 50°C (75°C) [A]	Tripped Power Dissipation [W]	Contact Resistance [mΩ]	Leakage Current [mA] @ 440V, 60Hz <sup>1)</sup>	Weight [kg]	Screw clamps [mm <sup>2</sup> ] <sup>2)</sup>	Housings	Packaging unit [PCS]	Order Number
8 (5)	3.2	12.5	11.1	1.1 kg	4	2A	2	FMBD-B92A-0812
16 (11)	7	6.8	11.1	1.2 kg	4	2A	2	FMBD-B92A-1612
25 (16)	9.5	3.8	12.7	1.8 kg	10	2B	2	FMBD-B92B-2512
36 (21)	12.5	2.4	12.7	2 kg	10	2B	2	FMBD-B92B-3612
64 (40)	21.3	1.3	12.7	2.8 kg	25	2C	1	FMBD-B92C-6412
80 (50)	22.6	0.88	13.2	5.7 kg	50	2D	1	FMBD-B92D-8012
120 (96)	43.2	0.75	13.6	6.3 kg	50	2E	1	FMBD-B92E-J212
160 (100)	37.9	0.37	13.6	8 kg	95	2F	1	FMBD-B92F-J612
200 (140)	41.6	0.26	13.6	8.6 kg	95	2F	1	FMBD-B92F-K012

Most Popular.

Availability for all products can be searched real-time: <http://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

1) Maximum leakage current under normal operating conditions, assuming that all three phases and the neutral conductor are connected to the supply and the consumer.

Under this condition, the current will mainly return through the neutral line, not as earth leakage.

2) Maximum conductor cross section (wire gauge) to be used; a comparative table for AWG and mm<sup>2</sup> values can be found in the general product information [www.schurter.com/emc\\_info](http://www.schurter.com/emc_info)