

1-phase filters FN 352Z

Multi-stage EMI filter

I III SCHAFFNEC energy efficiency and reliability



- Rated currents from 6 to 30A
- Surge pulse protection up to 2kA
- Solder or screw connection



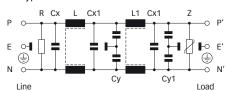


Technical specifications

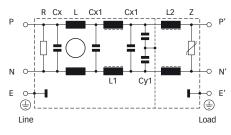
Maximum continuous operating voltage:	250VAC, 50/60Hz
Operating frequency:	dc to 400Hz
Rated currents:	6 to 30A @ 40°C max.
High potential test voltage:	P -> E 2000VAC for 2 sec
	P -> N 350VDC for 2 sec
Energy absorption:	40J
Temperature range (operation and storage):	-25°C to +85°C (25/85/21)
Flammability corresponding to:	UL 94V-2 or better
Design corresponding to:	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939
MTBF @ 40°C/230V (Mil-HB-217F):	230,000 hours

Typical electrical schematic









Features and benefits

- FN 352Z series is developed to meet high filter attenuation requirements by using multi-stage filter design.
- Additional high surge pulse voltage protection up to 2kA is integrated to protect sensitive equipment.
- Choosing FN 352Z product line brings you the rapid availability of a standard filter associated with the necessary safety acceptances.
- Standard filters are a practical solution helping you to pass EMI system approval in a short time.
- Exceptional conducted attenuation performance, based on multi-stage design and chokes with high saturation resistance and excellent thermal behavior.
- Various connection options.
- Custom-specific versions on request.

Typical applications

- Facility management
- Industrial
- Telecommunication
- Data processing
- Electrical and electronic equipment

Filter selection table

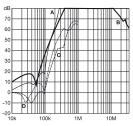
Filter		Leakage current*		Indu	ictance					Resistance	0,	Input/C		Weight
	@ 40°C (25°C)	@ 230VAC/50Hz	L	L1	L2	Сх	Cx1	Су	Cy1	R	absorption	conne	ctions	
	[A]	[µA]	[mH]	[mH]	[mH]	[nF]	[nF]	[nF]	[nF]	[MΩ]	[1]			[g]
FN 352Z-6-06	6 (7.2)	420	3	3		470	220	3.3	1.5	0.47	40	-06		575
FN 352Z-10-29	10 (12)	1300	5	0.06	0.003	220	220	15	15	0.47	40		-29	1320
FN 352Z-20-29	20	1300	3.5	0.06	0.0035	220	220	15	15	0.47	40		-29	2950
FN 353Z-30-33	24 (30)	1300	2.3	0.025	0.035	470	220	15	15	0.23	40		-33	3100

* Maximum leakage under normal operating conditions. Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

Typical filter attenuation

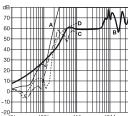
Per CISPR 17; A = $50\Omega/50\Omega$ sym; B = $50\Omega/50\Omega$ asym; C = $0.1\Omega/100\Omega$ sym; D = $100\Omega/0.1\Omega$ sym

6A types

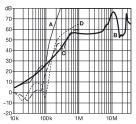




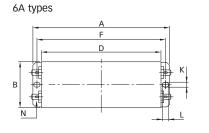


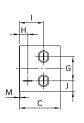


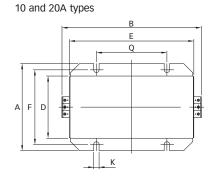
30A types

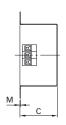


Mechanical data









30A types

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Dimensions

	6A	10A	20A	30A	Tolerances
-					
4	152	126	150	150	±0.5
В	51	172.3	221.8	250	±0.5
С	45	55.25	65	65	±0.5
D	133	100.5	119.5	119.5	±0.5
E		150.5	200	200	±0.5
F	143	112	135	135	±0.5
G	27				±0.5
н	9.5				±0.5
	27				±0.5
J	12				±0.5
к	5.3	6.4	6.4	6.4	
L	7				
М	0.5				
N	6.3 x 0.8				
Q		85	115	115	±0.1

All dimensions in mm; 1 inch = 25.4mm

Tolerances according: ISO 2768-m / EN 22768-m

Filter input/output connector cross sections

	-06	-29	-33
Solid wire	n/a	6mm ²	16mm ²
Flex wire	n/a	4mm ²	10mm ²
AWG type wire	n/a	AWG 10	AWG 6
Recommended torqu	e n/a	0.6 - 0.8Nm	1.5 - 1.8Nm

Please visit www.schaffner.com to find more details on filter connectors.