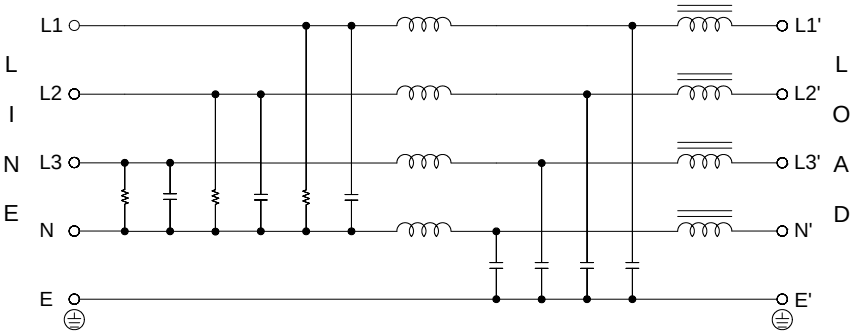
3 PHASE FILTER
With Neutral Wire

SC54

Technical data and measuring conditions

- Rated current: 4~25A@50°C
- Max. continuous operating voltage: 3x600 / 347VAC
- Operating frequency: dc to 60Hz
- Operating temp. : -25°~ + 100° (25/100/21)
- Hi-pot. test voltage (for 2 sec.):
  P/N - E: 2000 VDC
  P to P: 1900 VDC
  P to N: 1100 VDC
- Protection category: IP20
- Flammability corresponding to: UL 94V-2 or better
- MTBF@50°C/400V(Mill-HB-217F): 500,000 hours
- Design corresponding to: UL1283, UL60939, CSA 22.2 No.8-13, IEC/EN60939
- Overload capability: 4 x rated current at switch on; 1.5 x rated current for 1 min., once per hour

Electrical schematic



Features

- High attenuation performance up to 300MHz
- Current rating 4~25A
- 2-stage circuit is ideal for noisy environments
- Compact four-wire filter for applications with limited space
- Metal chassis mounted
- Space-saving solution

Marketing applications

- Process control systems (PCS)
- Power management system
- High power office equipment

Filter selection table

Filter PRJ No.	Rated Current @50°C [A]	Leakage Current* @600VAC/50Hz [mA]	Power Loss @25°C/50Hz [W]
04SC54Q	4	0.1	2
06SC54Q	6	0.1	3.9
12SC54Q	12	0.1	7.8
15SC54	15	0.1	10.8
25SC54	25	0.2	16.9

*Standardized calculated leakage current acc. IEC60939 under normal operating conditions.

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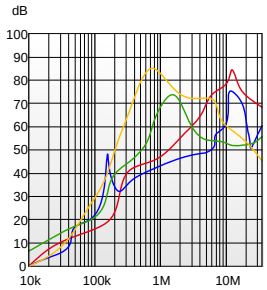
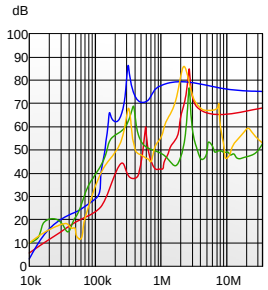
Filter attenuation *Insertion loss (dB) in 50Ω system CISPR 17*

Common mode / Asymmetrical (P-E)



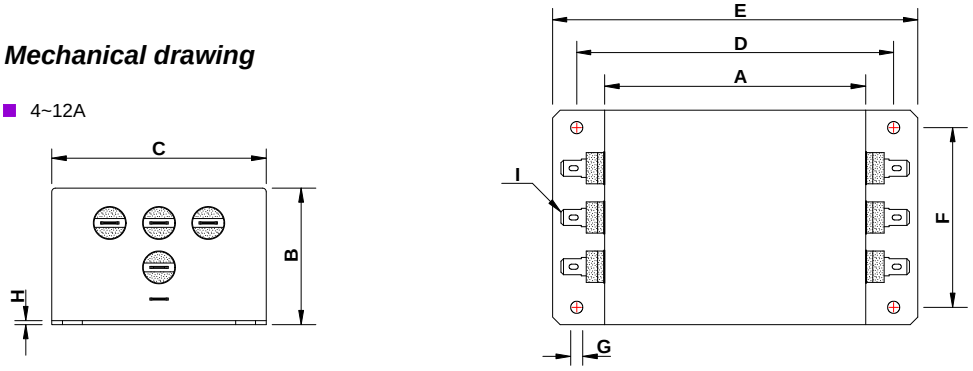
Differential mode / Symmetrical (P-P)



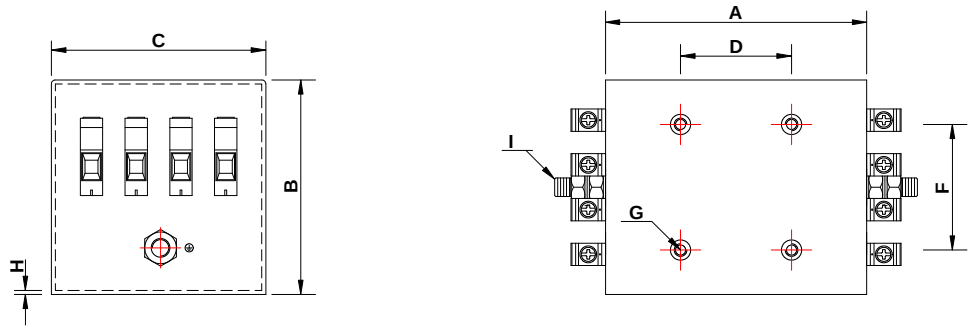
4A~6A
12A
15A
25A

Mechanical drawing

■ 4~12A



■ 15~25A

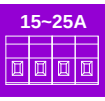


Dimensions (unit: mm)

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

Code	4A	6A	12A	15~25A
A	80	90	125	273.6
B	40.5	50.5	60	107
C	43	55	65	158.6
D	95	110	140	230
E	103	120	150	-
F	35	45	55	115
G	Ø3.8	Ø3.8	7.5x4.4	M8
H	1	1	1	1
I	6.3x0.8	6.3x0.8	6.3x0.8	M4

Input / Output connectors cross sections

Input / Output connectors	15~25A 
Solid wire	16mm²
Flex wire	10mm²
AWG type wire	AWG 6
Recom. torque	1.5~1.8Nm