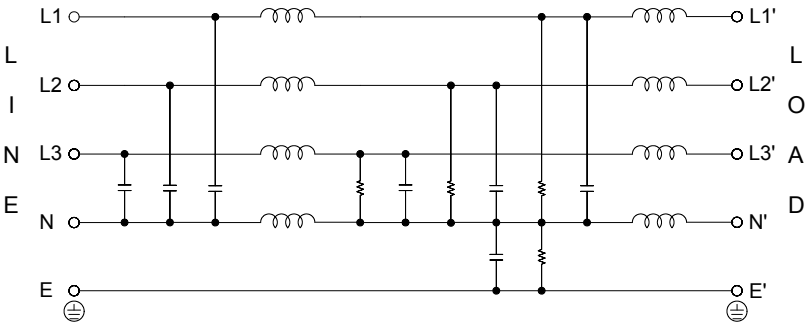
3 PHASE FILTER
With Neutral Wire

SCB80H

Technical data and measuring conditions

- Rated current: 8~400A@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: 2750 VDC
  P to P: 2250 VDC
  P to N: 1300 VDC
- Protection category: IP20
- Flammability corresponding to: UL 94V-2 or better
- MTBF@50°C/400V(Mill-HB-217F): 360,000 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



Marketing applications

- Automation & Process Control
- High power office equipment
- Renewable energy applications

Features

- Exceptional attenuation
- Current rating 8~400A
- 2-stage circuit is ideal for noisy environments
- Suitable for devices require minimal mounting space
- Alternative performance grade
- Optimized for industrial machinery

Filter selection table

Filter PRJ No.	Rated Current @50°C [A]	Leakage Current* @600VAC/50Hz [mA]	Power Loss @25°C/50Hz [W]
08SCB80H	8	10.7	14.8
16SCB80H	16	10.7	11.6
25SCB80H	25	10.7	2
36SCB80H	36	10.7	6
64SCB80H	64	10.7	18.4
80SCB80H	80	10.7	18.9
120SCB80H	120	10.7	28.5
160SCB80H	160	10.7	30.7
200SCB80H	200	10.7	46.8
300SCB80HQ	300	42.1	20.3
400SCB80HQ	400	42.1	36

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

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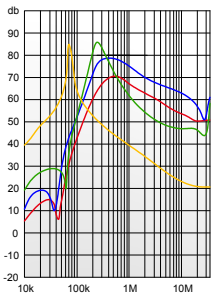
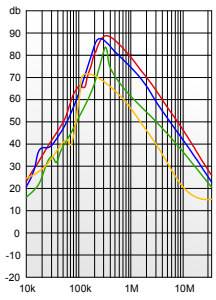
Filter attenuation *Insertion loss (dB) in 50Ω system CISPR 17*

Common mode / Asymmetrical (P-E)



Differential mode / Symmetrical (P-P)



8A~16A
25A~36A
64A~200A
300A~400A

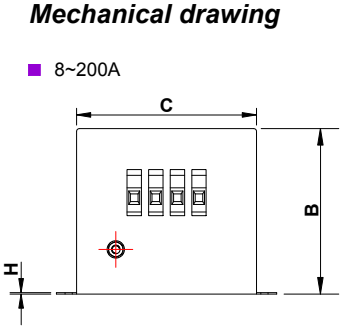
Dimensions (unit: mm)

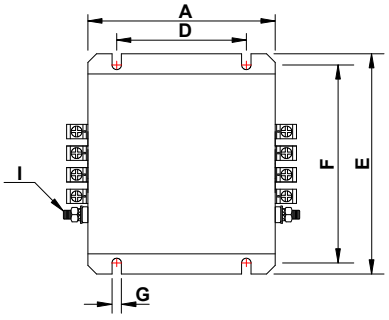
Tolerances according to ISO 2768-m / EN 22768-m

Code	8~16A	25~36A	64A	80A	120A	160 ~200A	300 ~400A
A	120	130	160	230	250	280	325
B	80	115	125	125	140	170	150
C	115	125	125	135	140	140	170
D	80	90	100	120	200	230	120
E	143	153	153	163	170	220	220
F	127.5	137.5	137.5	147.5	153.5	153.5	195
G	6.5	6.5	6.5	6.5	6.5	6.5	Ø12
H	1	1	1.2	1.2	1.2	1.2	1.5
I	M6	M6	M10	M10	M10	M10	M10
L	-	-	-	-	-	25	25
M	-	-	-	-	-	6	6
N	-	-	-	-	-	15	15
O	-	-	-	-	-	58	58
P	-	-	-	-	-	Ø10.5	Ø10.5

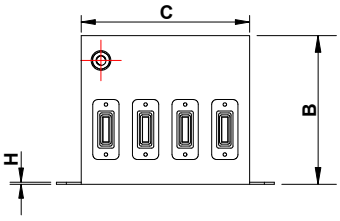
Mechanical drawing

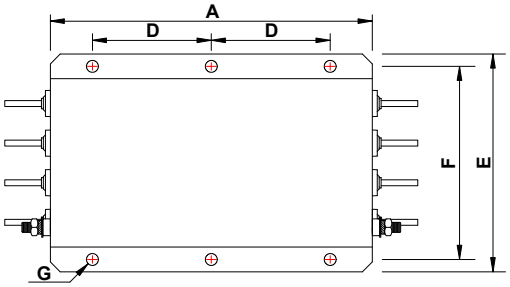
■ 8~200A



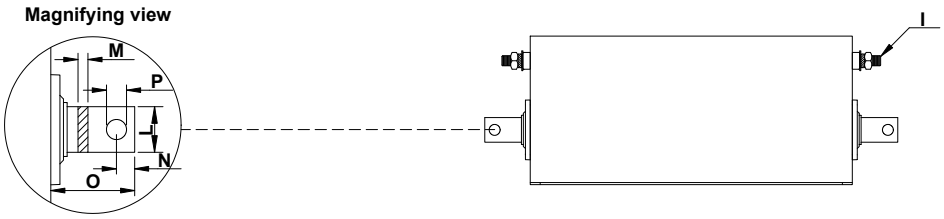


■ 300~400A





Magnifying view



Input / Output connectors cross sections

Input / Output connectors	8~16A	25~36A	64A	80~120A	160~200A
Solid wire	10mm²	16mm²	35mm²	50mm²	95mm²
Flex wire	6mm²	10mm²	25mm²	50mm²	95mm²
AWG type wire	AWG 8	AWG 6	AWG 2	AWG 1/0	AWG 4/0
Recom. torque	1~1.2Nm	1~1.2Nm	1.8~2Nm	2.3~2.5Nm	17~20Nm