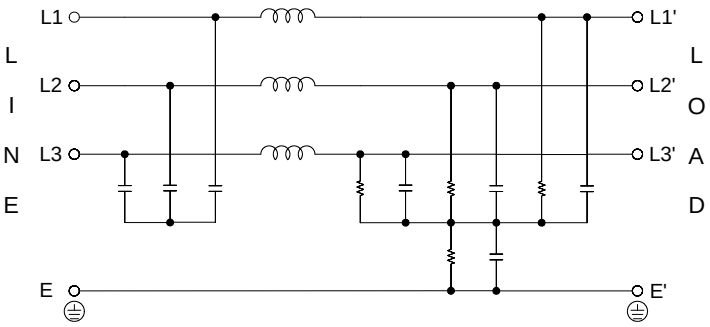
3 PHASE FILTER

SCB70H

Technical data and measuring conditions

- Rated current: 10~100A@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 to E: 2750 VDC
  P to P: 2250 VDC
- Protection category: IP20
- Flammability corresponding to: UL 94V-2 or better
- MTBF@50°C/400V(Mill-HB-217F): 320,000 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

- Motor drive
- Process control system
- Power management system
- Robotics

Features

- Superior conducted attenuation performance
- Current rating 10~100A
- Widely used in motor drive
- Compact and lightweight
- Easy to install
- Touch-safe connections with hinged safety covers

Filter selection table

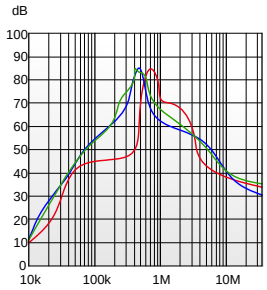
Filter PRJ No.	Rated Current @50°C [A]	Typical Drive* Power Rating [kW]	Leakage Current** @600VAC/50Hz [mA]	Power Loss @25°C/50Hz [W]
10SCB70H	10	5.5	3.1	2.4
20SCB70H	20	11	3.1	4.1
35SCB70H	35	22	3.4	6.8
50SCB70H	50	30	3.4	12.8
65SCB70H	65	37	3.4	13.5
80SCB70H	80	45	3.4	13.5
100SCB70H	100	55	3.4	17.1

*Calculated at rated current, 600 VAC and cos phi = 0.8. The exact value depends upon the efficiency of the drive, the motor and the entire application.
**Standardized calculated leakage current acc. IEC60939 under normal operating conditions.

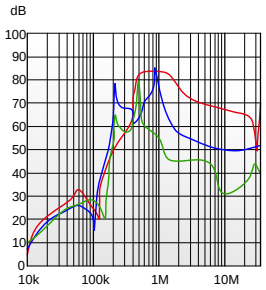
力征實業股份有限公司 +886 (2) 8978 1800 service@hal.com.tw www.hal.com.tw

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

Common mode / Asymmetrical (P-E)

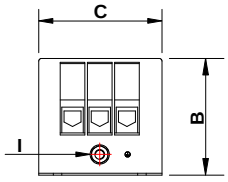


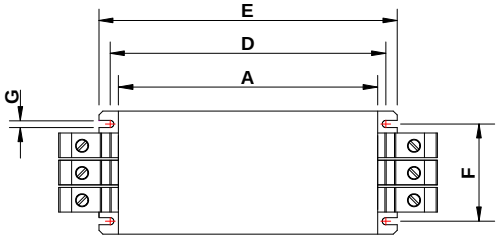
Differential mode / Symmetrical (P-P)



10A~20A
35A~65A
80A~100A

Mechanical drawing





Dimensions (unit: mm) *Tolerances according to ISO 2768-m / EN 22768-m*

Code	10~20A	35A	50~65A	80A	100A
A	120	130	140	170	200
B	58	68	80	90	90
C	58	70	85	95	95
D	132.5	142.5	152.5	182.5	212.5
E	150	160	170	200	230
F	42	50	65	75	75
G	4.5	5.5	5.5	5.5	5.5
H	1	1	1	1.5	1.5
I	M4	M5	M6	M8	M8

Input / Output connectors cross sections

Input / Output connectors	10~20A	35A	50~65A	80~100A
Solid wire	10mm²	16mm²	35mm²	50mm²
Flex wire	6mm²	10mm²	25mm²	50mm²
AWG type wire	AWG 8	AWG 6	AWG 2	AWG 1/0
Recom. torque	1~1.2Nm	1~1.2Nm	1.8~2Nm	2.3~2.5Nm