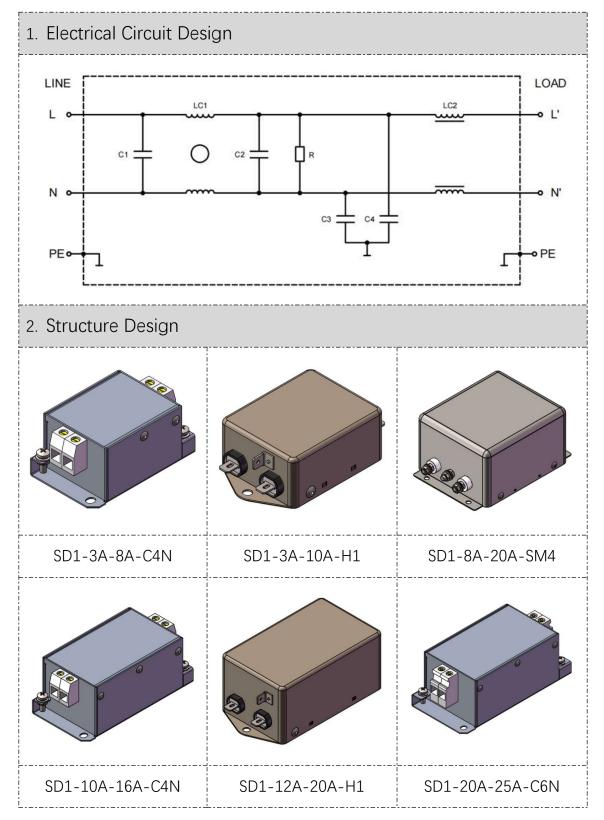


## **DAQI® SD1 Series EMC Filter**

Single Phase Two Stages Enhanced Filter

Customized service is available.





3. Electrical Installation Guide						
The device contains the following terminals:						
[L, N] – Input terminals for main power supply.						
[L', N'] – Output terminals.	[L', N'] – Output terminals.					
[PE] – Protecting earthing.						
4. Electrical Specifications						
Maximum continuous operating voltage	250VAC					
Operating frequency	50/60					
Rated currents	3-20A@40℃					
High potential test voltage	L-N: 1200VDC, 5s;					
	L/N-E: 2000VDC, 5s;					
	L/N-E: 2500VDC, 5s (SD13 types);					
Overload capability	3x rated current at switch on					
	1.4x rated current for 1 minute once					
	per hour					
Temperature range	-25°C to +100°C (25/100/21)					
Design corresponding to	UL 1283, CSA 22.2 No.8 1986,					
	IEC/EN 60939 GB15287					
Flammability corresponding to	UL 94 V-0 or better					
MTBF @40°C/230 V (Mil-HB-217F)	>1,650,000 hours					



#### 5. Advantages

- ♦ Two-stage filtering design, with separate differential mode yoke flow coil.
- ♦ Excellent differential mode and common mode attenuation.
- ♦ Good low frequency attenuation.
- ♦ Optional low leakage current version (SD12) and medical version (SD13).
- The medical version (SD13) conforms to the medical equipment standard IEC
  60601-1.
- ♦ Various terminal connection modes are available.

### 6. Typical Applications

- ♦ Electrical and electronic equipment
- ♦ Single-phase motor driver and servo driver
- ♦ Lighting application equipment
- ♦ Household electrical equipment
- ♦ industrial equipment
- ♦ medical apparatus and instruments
- ♦ Office automation and data control equipment

Please kindly send an inquiry for more details.

We will offer the solution according to the exact uses.

### Contact Us:

Email: sales@daqidevice.com



#### **SD11 Series**

Rated voltage 250VAC

Ordering code	Rated current @45°C	Typical drive power rating (KW)	Leakage current @250VAC, 50Hz (@120VAC, 60Hz)	Typical Power loss @25°C/DC (W)	Approx. weight (Kg)	Input/Output connections
DQ-SD11-0003-02H	3	0.5	≤0.8(0.45)mA	3.8	0.2	H1
DQ-SD11-0005-02H	5	0.85	≤0.8(0.45)mA	6.2	0.25	H1
DQ-SD11-0010-02H	10	1.75	≤0.8(0.45)mA	8.5	0.3	H1
DQ-SD11-0012-02H	12	2.0	≤0.8(0.45)mA	12.5	0.55	H1
DQ-SD11-0015-02H	15	2.5	≤0.8(0.45)mA	10.5	0.55	H1
DQ-SD11-0020-02H	20	3.2	≤0.8(0.45)mA	9.0	0.62	H1
DQ-SD11-0003-02C	3	0.5	≤0.8(0.45)mA	3.8	0.25	C4N
DQ-SD11-0008-02C	8	1.2	≤0.8(0.45)mA	8.3	0.3	C4N
DQ-SD11-0010-02C	10	1.75	≤0.8(0.45)mA	8.5	0.32	C4N
DQ-SD11-0016-02C	16	2.7	≤0.8(0.45)mA	10.5	0.35	C4N
DQ-SD11-0020-02C	20	3.2	≤0.8(0.45)mA	9.0	0.5	C6N
DQ-SD11-0025-02C	25	4.2	≤0.8(0.45)mA	9.6	0.55	C6N
DQ-SD11-0008-02S	8	1.2	≤0.8(0.45)mA	8.3	0.45	SM4
DQ-SD11-0012-02S	12	2.0	≤0.8(0.45)mA	12.5	0.52	SM4
DQ-SD11-0016-02S	16	2.7	≤0.8(0.45)mA	10.5	0.65	SM4
DQ-SD11-0020-02S	20	3.0	≪0.8(0.45)mA	9.0	0.65	SM4

#### SD12 Series

Rated voltage 250VAC

Ordering code	Rated current @45°C	Typical drive power rating (KW)	Leakage current @250VAC, 50Hz (@120VAC, 60Hz)	Typical Power loss @25℃/DC (W)	Approx. weight (Kg)	Input/Output connections
DQ-SD12-0003-02H	3	0.5	≤0.07(0.04)mA	3.8	0.2	H1
DQ-SD12-0005-02H	5	0.85	≤0.07(0.04)mA	6.2	0.25	H1
DQ-SD12-0010-02H	10	1.75	≤0.07(0.04)mA	8.5	0.3	H1
DQ-SD12-0012-02H	12	2.0	≤0.07(0.04)mA	12.5	0.55	H1
DQ-SD12-0015-02H	15	2.5	≤0.07(0.04)mA	10.5	0.55	H1
DQ-SD12-0020-02H	20	3.2	≤0.07(0.04)mA	9.0	0.62	H1
DQ-SD12-0003-02C	3	0.5	≤0.07(0.04)mA	3.8	0.25	C4N
DQ-SD12-0008-02C	8	1.2	≤0.07(0.04)mA	8.3	0.3	C4N
DQ-SD12-0010-02C	10	1.75	≤0.07(0.04)mA	8.5	0.32	C4N
DQ-SD12-0016-02C	16	2.7	≤0.07(0.04)mA	10.5	0.35	C4N
DQ-SD12-0020-02C	20	3.2	≤0.07(0.04)mA	9.0	0.5	C6N
DQ-SD12-0025-02C	25	4.2	≤0.07(0.04)mA	9.6	0.55	C6N
DQ-SD12-0008-02S	8	1.2	≤0.07(0.04)mA	8.3	0.45	SM4
DQ-SD12-0012-02S	12	2.0	≤0.07(0.04)mA	12.5	0.52	SM4
DQ-SD12-0016-02S	16	2.7	≤0.07(0.04)mA	10.5	0.65	SM4
DQ-SD12-0020-02S	20	3.0	≤0.07(0.04)mA	9.0	0.65	SM4



#### SD13 Series

Rated voltage 250VAC

Ordering code	Rated current @45°C	Typical drive power rating (KW)	Leakage current @250VAC, 50Hz (@120VAC, 60Hz)	Typical Power loss @25°C/DC (W)	Approx. weight (Kg)	Input/Output connections
DQ-SD13-0003-02H	3	0.5	0. OOmA	3.8	0.2	H1
DQ-SD13-0005-02H	5	0.85	0. 00mA	6.2	0.25	H1
DQ-SD13-0010-02H	10	1.75	0. 00mA	8.5	0.3	H1
DQ-SD13-0012-02H	12	2.0	0. 00mA	12.5	0.55	H1
DQ-SD13-0015-02H	15	2.5	0. 00mA	10.5	0.55	H1
DQ-SD13-0020-02H	20	3.2	0. 00mA	9.0	0.62	H1
DQ-SD13-0003-02C	3	0.5	0. OOmA	3.8	0.25	C4N
DQ-SD13-0008-02C	8	1.2	0. OOmA	8.3	0.3	C4N
DQ-SD13-0010-02C	10	1.75	0. OOmA	8.5	0.32	C4N
DQ-SD13-0016-02C	16	2.7	0. OOmA	10.5	0.35	C4N
DQ-SD13-0020-02C	20	3.2	0. OOmA	9.0	0.5	C6N
DQ-SD13-0025-02C	25	4.2	0. OOmA	9.6	0.55	C6N
DQ-SD13-0008-02S	8	1.2	0. 00mA	8.3	0.45	SM4
DQ-SD13-0012-02S	12	2.0	0. 00mA	12.5	0.52	SM4
DQ-SD13-0016-02S	16	2.7	0. OOmA	10.5	0.65	SM4
DQ-SD13-0020-02S	20	3.0	0. OOmA	9.0	0.65	SM4

#### Cautions:

1. Typical drive power rating: Calculated at rated current, 220VAC(Rated voltage 250VAC) and Power Factor=0.8.

The exact value depends upon the efficiency of the drive, the motor and the entire application.

2. The filter leakage currents specified in the data book are intended for user

information only. The maximum leakage current of the entire electrical equipment

or appliance has to be limited for safety reasons.

Please obtain the applicable limits for your application from the relevant

regulations, provisions and standards.



Terminal Connection Information					
Input/Output connections	Solid wire	AWG type wire	Screw/Recommended torque		
C4N	0.05-6mm²	30-10AWG	M3/5.3-7lbf.in(0.59-0.79Nm)		
C6N	0.2-10mm <sup>2</sup>	24-8AWG	M4/10.6-13lbf.in(1.2-1.46Nm)		
	Connections	Specifications			
H1	Sheet copper	6.3*0.8m <sup>2</sup>			
SM4	SM4 Screw M4	Recommended torque:			
51714		1.2-1.3 (Nm)			



# **DAQI®** Products Series

- Sine Wave Filter
- Passive Harmonic Filter
- EMC Filter
- Reactors
- Transformers
- Load Banks
- Active Filter

## **Contact Us**



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