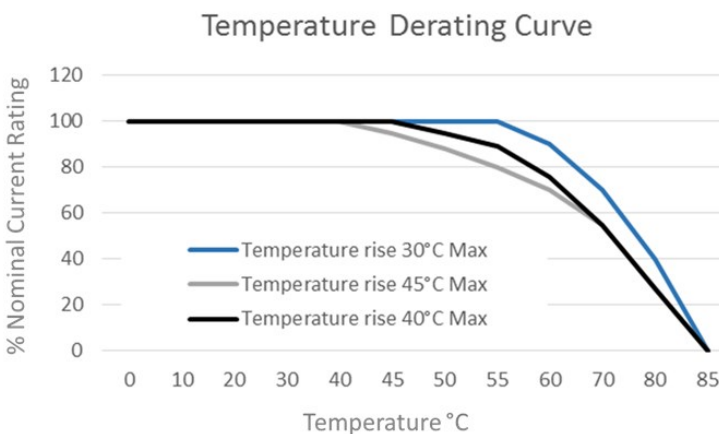


RIR3 Series IEC Inlet Filters with Switch - Screw Fix

The RIR3 series of general purpose IEC inlet filters offers good performance for both common mode and differential mode interface, in a standard compact size.

A standard IEC inlet filter available from Roxburgh EMC with quick and easy mounting.

- Current ratings, 3A, 6A and 10A
- Rated at 250V
- Also available with increased x and y caps for optimum performance
- Customisation services available
- Available from UK stock



See attached data for specific temperature ratings

Meets overvoltage category II of IEC60664
Complies with BS EN 60950

UL Standard: UL1283

IEC Standard: IEC 60939-2:2005

CSA Standard: C22.2

Features:

- UL Approved
- General Purpose
- 3 to 10 Amp Current Ratings
- IEC Inlet with fast-on termination

Application Examples:

- Digital Equipment
- Point-of-sale equipment
- Printers
- Inverters
- Vending and Gaming machines

Benefits:

- Quick and easy mounting
- Safety approvals held
- UK stock

Contact us on:

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DEM Manufacturing
Deltron Emcon House
Hargreaves Way
Sawcliffe Industrial Park
Scunthorpe
DN15 8RF



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Email: sales@dem-uk.com
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A. General Specifications

MODEL	Rated Voltage AC,DC[V]	Rated Current [A]	Leakage Current Max.[mA] at 250VAC	Temperature Rise Max.[℃]
RIR3-03*D(S/H)	250	3	0.1	45
RIR3-03*E(S/H)			0.2	
RIR3-03*2(S/H)			0.35	
RIR3-03*3(S/H)			0.5	
RIR3-06*D(S/H)	250	6	0.1	
RIR3-06*E(S/H)			0.2	
RIR3-06*2(S/H)			0.35	
RIR3-06*3(S/H)			0.5	
RIR3-10*D(S/H)	250	10	0.1	
RIR3-10*E(S/H)			0.2	
RIR3-10*2(S/H)			0.35	
RIR3-10*3(S/H)			0.5	

*Leakage current measuring method

UL 1283(3rd Edition): -26 and Fig 26.1

*Temperature rise measuring method

VDE 0565-3 : - 2.3.3 and - 4.5

B. Operating Temperature Range

-25℃ to +100℃ including temperature rise.

C. Withstand Voltage

1500V AC for 1 minute between line and ground.

1800V DC for 1 minute between line and line (without bleeder resistor.)

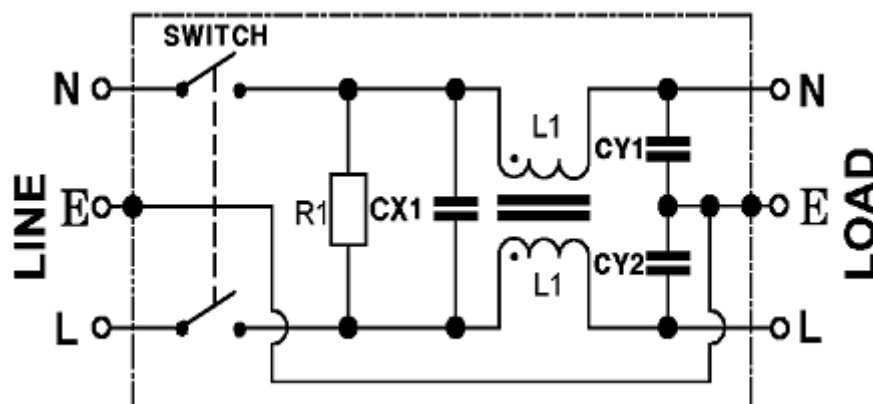
D. Insulation Resistance

300MΩ minimum at 500V DC between line and ground.

E. Voltage Drop

1 volt maximum at rated current.

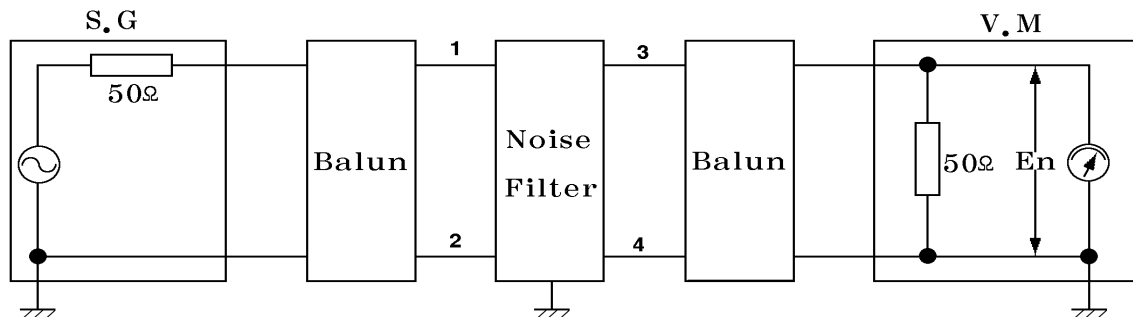
F. Circuit Diagram and Component Value



Model No.	Inductance L1[mH] ,+50,-30%	X-Capacitor CX1[μ F] $\pm$ 20%	Y-Capacitor CY1,2[pF] $\pm$ 20%
RIR3-03**(S/H)	4.0	*	*
RIR3-06**(S/H)	1.1	*	*
RIR3-10**(S/H)	0.16	*	*
RIR3-**A*(S/H)	*	0.1	*
RIR3-**C*(S/H)	*	0.22	*
RIR3-**D*(S/H)	*	0.33	*
RIR3-***D(S/H)	*	*	470
RIR3-***E(S/H)	*	*	1000
RIR3-***2(S/H)	*	*	2200
RIR3-***3(S/H)	*	*	3300
Resistor R1[M Ω] $\pm$ 10% : 1, 1/2Watt (OPTIONAL)			
* NOTE : IR3-**A*-(S/H) Type (Without Resistor)			

※ " * " in the suffix of model number means 'Regardless'.

G. Attenuation Measuring Method



OSC Level : 0dB

$$\text{Insertion loss} = -20\log(E1/E2)[\text{dB}]$$

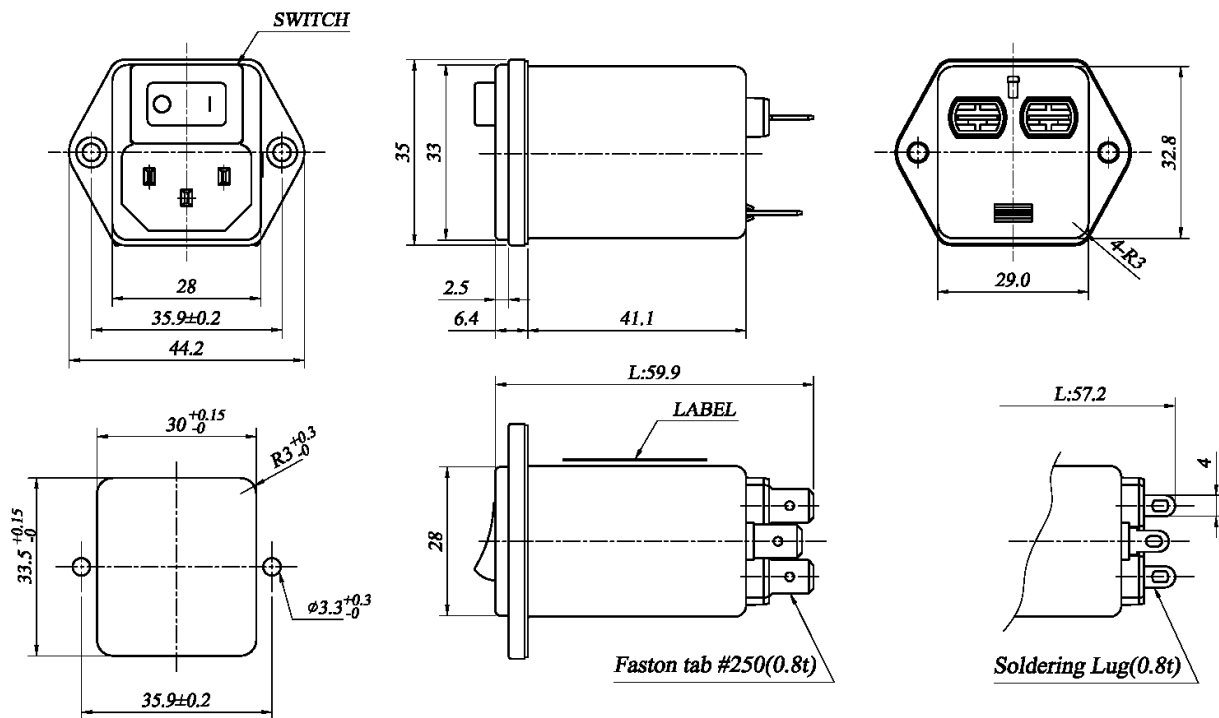
E1 : Level with the Noise Filter in the circuit.

E2 : Level without the Noise Filter in the circuit

H. Guaranteed Minimum Attenuation In [dB]

Model	Common mode [MHz]							Normal mode [MHz]						
	0.15	0.45	1	2	5	10	30	0.15	0.45	1	2	5	10	30
RIR3-03CE-*	24	34	33	30	29	29	17	18	25	37	32	36	46	35
RIR3-06CE-*	12	20	24	26	26	28	29	18	25	33	28	25	36	35
RIR3-10CE-*	0	7	10	15	20	24	28	18	25	33	39	20	23	39

I. Mechanical Dimension Unit : mm



**Panel Cutout dimension
mount from front side.**

*** Alternate terminal for IR3-****H**

*** Alternate terminal for IR3-****S**

※ General Tolerance : ± 0.5 mm

J. Marking

1. Trademark.
2. Model No.
3. Rated voltage and current.
4. Operating temperature range.
5. Circuit diagram and component value.
6. Lot No.
7. UL mark.

L. Packing Specification

1. Quantity & Weight

Packing Case	Q'ty/ 1 Box	Gross Weight(kg)
CARTON BOX	120	10
INNER BOX	60	5

2. Packing Case

Packing Case	Q'ty	Material	Dimension(W×L×H)mm
CARTON BOX	1/120	SK3SA	425×363×243(outside)
INNER BOX	1/60	SKSA B Type	208×335×215(inside)
PACKING CASE	1/12	P.E.T	325.3×201×0.5
TOP PAD	1/60	STYROFOAM(PS)	193×317×8.0
POLY BAG	1/60	PE SHEET	450×550

3. Marking

- 1) Model No.
- 2) Q'ty of products
- 3) Lot No.

