

## Ranges Covered

<b>Inverters</b>	<b>200V Single Phase</b>	<b>200V Three Phase</b>	<b>400V Three Phase</b>
Dinverter	0.25 to 2.2kW	0.75 to 2.2kW	0.75 to 4.0kW
Unidrive			0.75 to 37kW
Commander SE	0.25 to 2.2kW	0.75 to 2.2kW	0.75 to 15kW

Footprint RFI filters for

**CONTROL  
TECHNIQUES**

Dinverter, Unidrive and Commander SE  
motor inverters

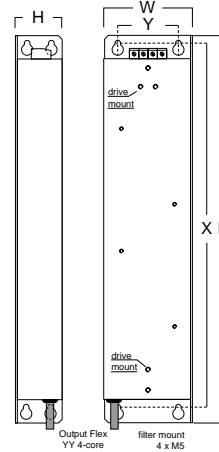


# Dinverter Unidrive

- The **CT-DIN and CT-UNI** ranges, especially for Control Techniques Dinverter and Unidrive Series inverters.
- Help to ensure EMC compliance of machinery and installations using Inverters or Unidrives.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets.
- All filters are CE marked.

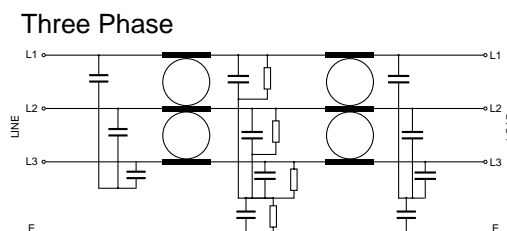
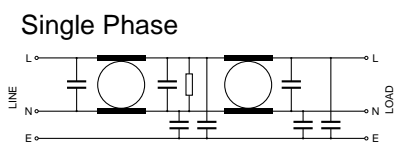


## Dimensions



Applied Inverter	Applied Unidrive	Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Inverter Fixing	EMC Tested
DIN1220025A DIN1220037A DIN1220055A DIN1220075A		CT 1012 DIN A	12A	1ph, 250V	14mA	210 x 82 x 50	195 x 48	2 x M5	✓
DIN1220075B DIN1220150B DIN1220220B		CT 1026 DIN B	26A	1ph, 250V	26mA	415 x 95 x 50	390 x 65	5 x M5	✓
DIN3220075B DIN3220150B DIN3220220B DIN3380075B DIN3380110B DIN3380150B DIN3380220B DIN3380300B DIN3380400B	UNI-1401 UNI-1402 UNI-1403 UNI-1404 UNI-1405	CT 3015 UNI-1	15A	3ph, 480V	1.3 / 120mA	415 x 95 x 50	390 x 65	5 x M5	✓
	UNI-2401 UNI-2402 UNI-2403	CT 3030-UNI 2	30A	3ph, 480V	0.3 / 40mA	415 x 190 x 50	390 x 140	4 x M5	✓
	UNI-3401 UNI-3402 UNI-3403 UNI-3404 UNI-3405	CT 3060-UNI 3	60A	3ph, 480V	0.3 / 40mA	424 x 375 x 60	404 x 300	4 x M6	✓

## Typical Circuit Schematics

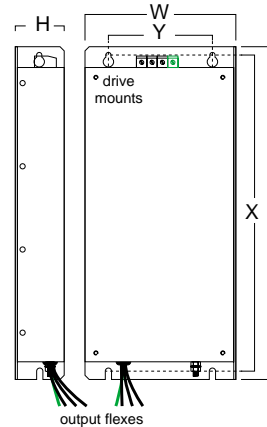


# Commander SE



- The **SE RFI** range, especially for Control Techniques Commander SE Series inverters.
- Help to ensure EMC compliance of machinery and installations using Commander SE drives.
- Footprint filters mount between the inverter and the panel, saving valuable space inside wiring cabinets.
- All filters are designed and manufactured to UL requirements and are CE marked.

Dimensions



Applied Inverter	Single Phase Filter Part No	Three Phase Filter Part No	Rated Current	Max Rated Voltage	Leakage current Nom / Max	External L x W x H (mm)	Mount Dims X x Y (mm)	Filter Fixing	EMC Tested	UL
SE11200025 SE11200037 SE11200055 SE11200075	SE RFI 1012	n/a	12A	1ph, 250V	1.7mA	227 x 101 x 35	216 x 64	4 x M4	✓	●
SE2D200075 SE2D200110 SE2D200150 SE2D200220	SE RFI 1026	SE RFI 3015	26A 15A	1ph, 250V 3ph, 480V	24mA 0.5 / 34mA	320 x 145 x 47 320 x 145 x 47	304 x 100 304 x 100	4 x M4 4 x M4	✓	●
SE23400075 SE23400110 SE23400150 SE23400220 SE23400300 SE23400400	n/a	SE RFI 3015	15A	3ph, 480V	0.8 / 65mA	320 x 145 x 47	304 x 100	4 x M4	✓	●
SE33400550 SE33400750	n/a	SE RFI 3020	20A	3ph, 480V	0.8 / 650mA	375 x 190 x 50	360 x 140	4 x M4	✓	●
SE43401100 SE43401500	n/a	SE RFI 3035	35A	3ph, 480V	0.3 / 40mA	453 x 250 x 55	438 x 200	4 x M5	✓	●

UL Approval Status - ✓ Complete, ● Pending

## Earth Leakage Measurements

In single phase applications, the earth leakage current is present all of the time.

For three phase applications - under normal conditions, with the three phases balanced, earth leakage currents are extremely small - the max values stated are worst possible values such as would occur momentarily during switch on or failure of one or two phases.

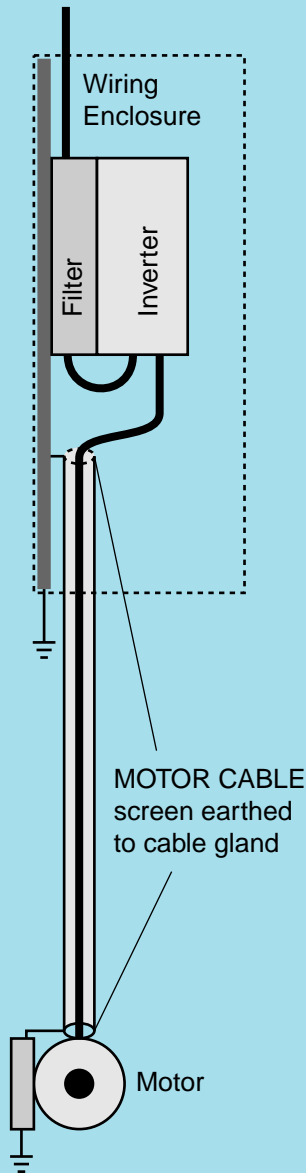
## Design and Test Criteria

Generally with motor drive systems the emission levels are greatly affected by the length of the cable between the drive itself and the motor - longer cables will cause considerably higher emissions.

The inverter / filter combinations here have been designed and tested to achieve compliance to :-

EN 55022:1994, Class B for use in domestic / light industrial environments (equivalent to the RF emissions tests of Power Drive Standard EN 61800-3:1996 for drives with <25A input current) when fitted with up to 25m motor output cable and to EN 55011:1991 Group 1, Class A for use in industrial environments (equivalent to the RF emissions tests of Power Drive Standard EN 61800-3:1996 for drives with >25A input current) when fitted with up to 50m motor output cable.

## UL approval documentation and EMC Test Certificates from Independent Test House



### Filter Installation Notes

To conform to EMC directives, it is essential that good wiring practice is observed and that all installation recommendations are followed.

- ◆ The usual safety procedures when working with electrical equipment must be followed and all electrical connections to the filter, inverter & motor must be made by a qualified electrical technician.
- ◆ Filters should be fitted as closely as possible to the incoming mains supply of the wiring enclosure, usually directly after the enclosures circuit breaker or supply switch.
- ◆ Care should be taken to remove any paint etc. from filter and inverter mounting holes and face area of the panel to ensure the best possible earthing of the units.
- ◆ All lead lengths should be kept as short as possible and incoming mains, outgoing motor cables and control cables should be kept well separated. Cable earth screens should only be stripped back as far as necessary to make connections - screens should be securely earth bonded to the wiring panel.

DUE TO CONTINUAL PRODUCT DEVELOPMENT, SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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