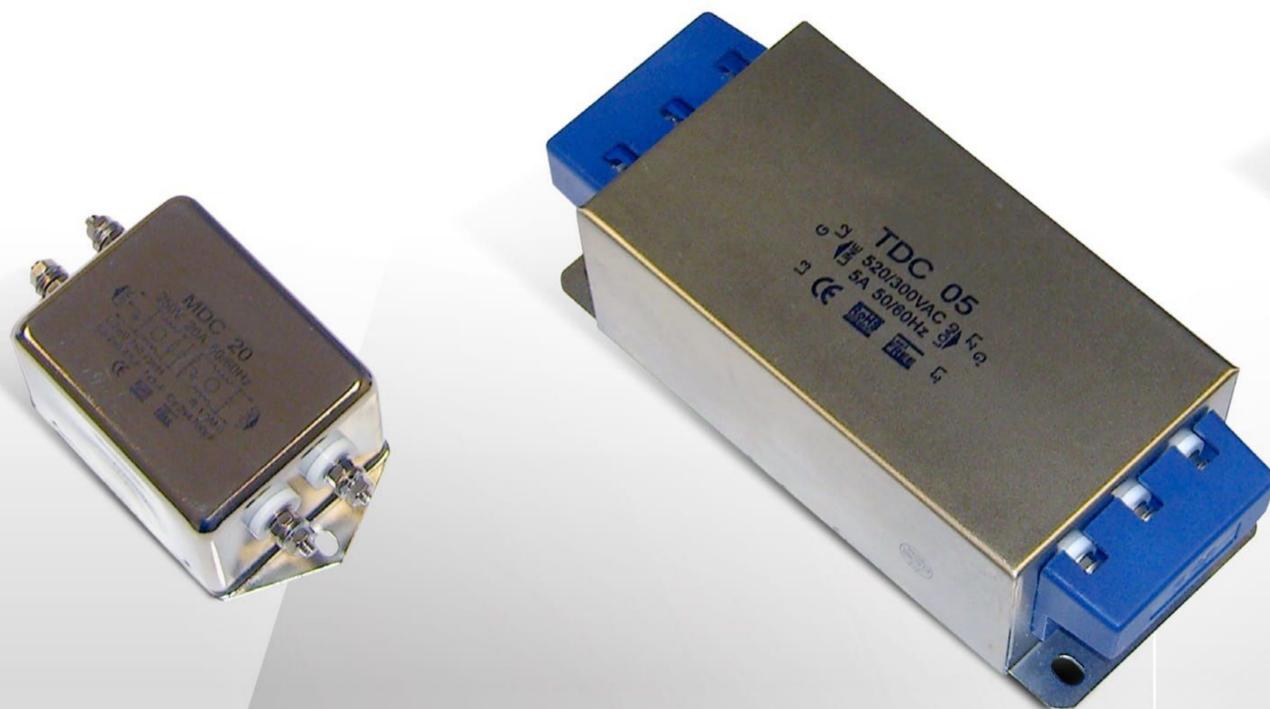


## 🇮🇹 A1 - FILTRI DI RETE EMC, DA MONTARE IN INGRESSO AGLI INVERTERS

Tutti gli inverter Electroil presentano un filtro di rete integrato sulla scheda elettronica, in ingresso al circuito, che attenua nettamente la propagazione, sulla linea di alimentazione, dei disturbi elettromagnetici condotti (solitamente a bassa frequenza), e limita anche i disturbi radiati in aria (solitamente ad alta frequenza). Nonostante questa importante attenuazione, per motivi circuitali dell'inverter e dell'impianto nel quale è montato (in particolare in presenza di cavi di collegamento lunghi più di 20 metri tra inverter e motore) a volte possono essere presenti apparecchiature in rete molto suscettibili ai disturbi residui, dopo l'attenuazione data dal filtro, propagati in rete dall'inverter, pertanto in taluni casi è necessario ricorrere ad un filtro di rete supplementare in ingresso all'inverter. I filtri di rete da noi proposti sono di qualità elevata (sempre prodotti in Italia o in Germania), per alimentazione monofase o trifase, a doppio o triplo stadio, con carcassa in lamiera di schermatura, che, per massimizzare l'efficienza del filtro, raccomandiamo di collegare sempre a terra, con collegamento a bassa resistenza oppure con avvvitamento diretto della carcassa del filtro a parti metalliche dell'impianto messe a terra.

Per l'efficacia del filtro, questo deve essere posto il più vicino possibile all'involucro metallico dell'inverter collegando a terra, con collegamento a bassa resistenza, sia la carcassa dell'inverter che quella del filtro, possibilmente collegate tra loro con un buon contatto elettrico (in assenza quindi di zone di contatto plastiche, verniciate o comunque isolanti).

Tutti i filtri di rete proposti da Electroil sono stati testati in abbinamento agli inverter Electroil, e sono state eseguite le prove di compatibilità elettromagnetica presso laboratorio dotato di camera semi-anechoica; consigliamo pertanto l'utilizzo dei nostri filtri di rete addizionali al fine di ottenere i migliori risultati in quanto a soppressione dei disturbi.



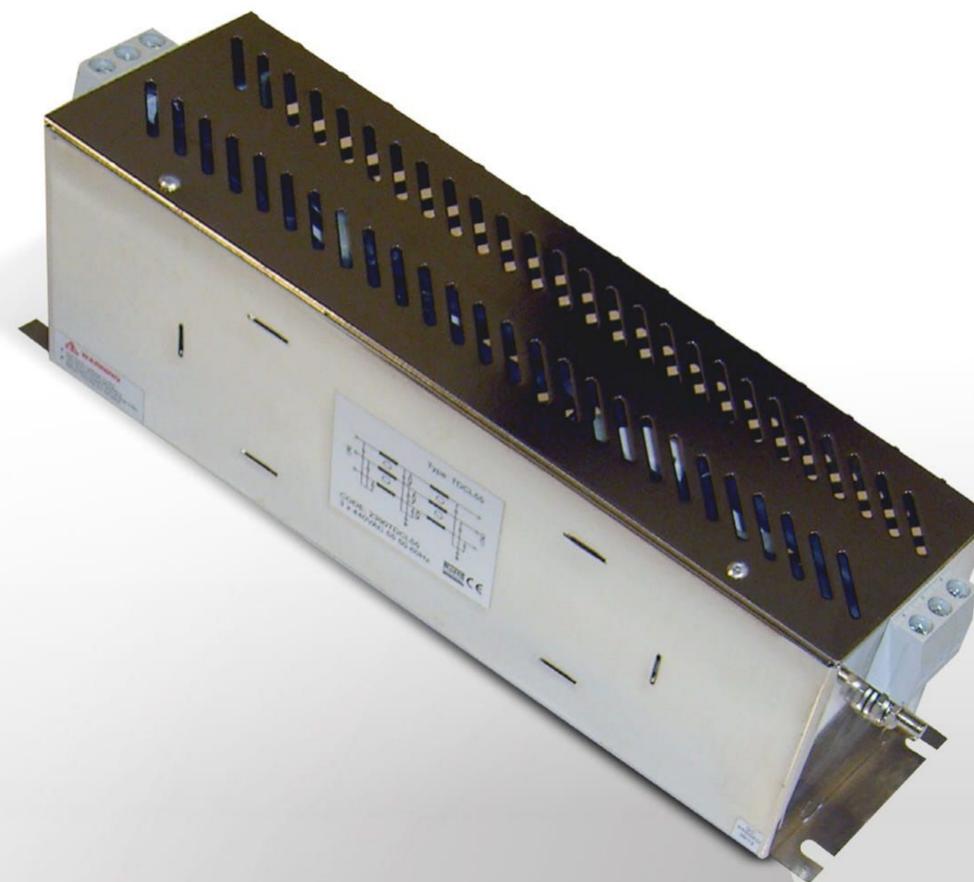
## 🇬🇧 A1 - EMC FILTERS, TO BE FITTED ON THE INPUT SIDE OF THE INVERTERS

All Electroil inverters have an integrated input line EMC filter on the electronic board, on the input side of the circuit, that considerably attenuates the noise diffusion on the supply line, of duct electromagnetic noises (usually at low frequency), and also limits air radial noise (usually at high frequency). Although this important attenuation, for circuitual reasons of the inverter and the system on which the drive is installed (in particular in presence of connection cable between inverter and motor that are longer than 20 mts) can sometimes be present on the electric power line any devices very susceptible to the residual noises, after the attenuation given from the filter, propagated in the electric network from the inverter. Therefore in such a cases it's necessary to use an additional EMC filter on the input of the drive.

The EMC filters we propose are of high quality (always manufactured in Italy or Germany), with single phase or three-phase supply, at double or triple stage, with shielding plate frame, that in order to maximize the efficiency of the filter, we always recommend to connect to the ground, with a low resistance connection or with direct screwing of the filter frame with metallic parts of the system that are grounded.

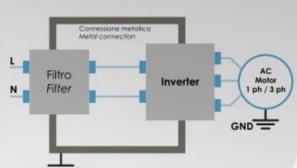
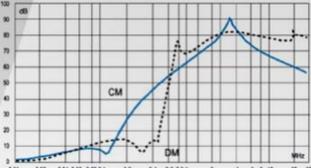
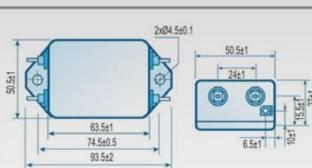
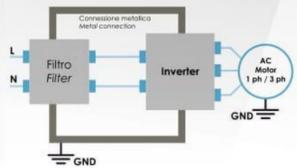
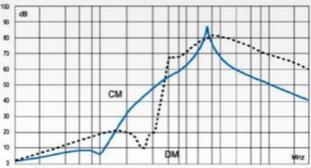
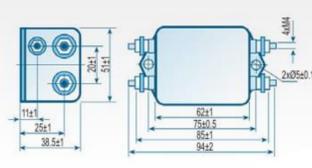
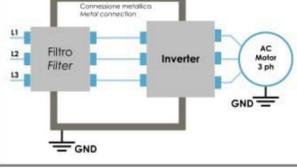
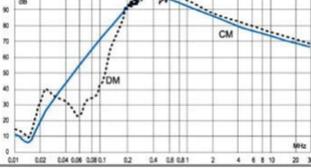
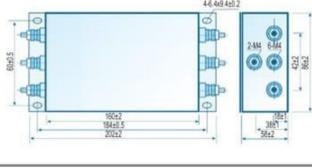
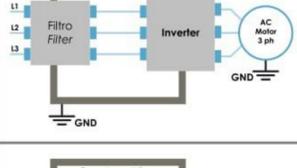
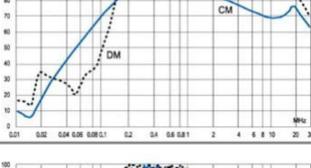
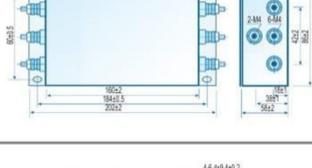
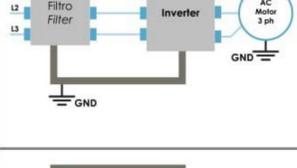
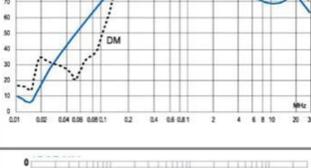
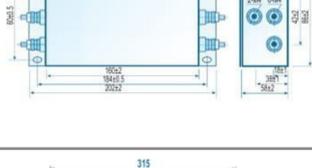
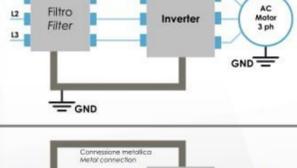
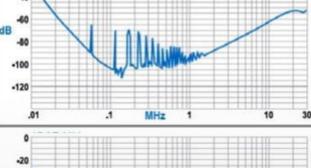
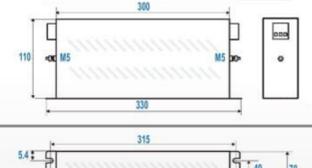
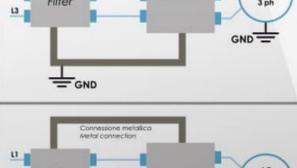
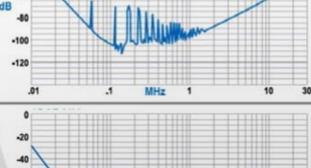
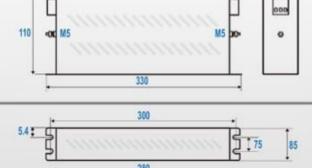
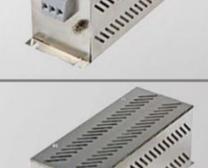
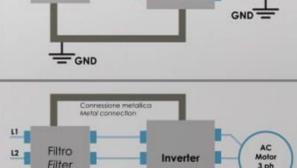
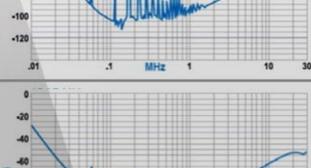
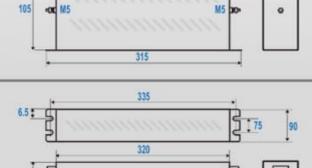
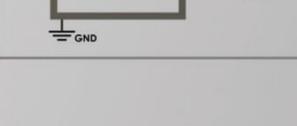
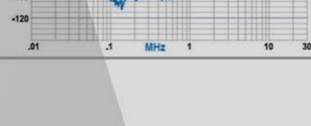
For the efficiency of the filter, it must be placed as close as possible to the metallic cover of the inverter by grounding, with a low resistance connection, both the inverter and filter frames, possibly connected each other with a good electrical contact (therefore in absence of plastic contact areas, painted or in any case insulating).

All the EMC filter proposed by Electroil have been tested combined with Electroil inverters, and all the electromagnetic compatibility tests have been made into a laboratory provided with semi-anechoic room; therefore we suggest the utilization of our additional EMC filter in order to get the best results in terms of interferences suppression.



# FILTRI EMC ANTIDISTURBO ADDIZIONALI DI ENTRATA INVERTER

## ADDITIONAL EMC NOISE-LESS INPUT FILTERS

Modello / Model	Codice / Code	Immagine / Picture	Schema di collegamento / Wiring scheme	Attenuazione disturbi / Noise attenuating	Dimensioni / Dimensions	Peso / Weight	Tipo / Type	Tensione / Voltage	Corrente nominale / Rated current	Adatto per inverter tipo / Suitable for Inverter type
MDC10	EF.825.004					0,16	Monofase / Single-phase	115-250Vac 50-60Hz	10	IMMP1.1W IMMP1.1W-BC
MDC20	EF.825.005					0,25	Monofase / Single-phase	115-250Vac 50-60Hz	20	IMMP1.5W (BC) IMTP1.5W (BC) IMT11.5M IMMP1.8W-BC IMTP2.2W-BC IMTP2.2M-RS IMTPD2.2M/W-RS IMT12.2M
TDC05	EF.825.006					1,60	Trifase / Three-phases	3x(300-520)Vac 50-60Hz	5	ITTP1.5W-BC
TDC10	EF.825.007					1,60	Trifase / Three-phases	3x(300-520)Vac 50-60Hz	10	ITTP2.2W-BC ITTP2.2M-RS ITTPD2.2M-RS ITTP2.2M ITTP3.0W-BC ITTP3.0M-NEO
TDC20	EF.825.008					1,80	Trifase / Three-phases	3x(300-520)Vac 50-60Hz	20	ITTP4.0M/W-RS ITTPD4.0M/W-RS ITTP4.0M ITTP5.5M/W-RS ITTPD5.5M/W-RS ITTP5.5M ITTP7.5M-NEO ITTP7.5W-RS ITTPD7.5W-RS ITTP7.5W
TDCL30	EF.825.009					2,30	Trifase / Three-phases	3x(380-440)Vac 50-60Hz	30	ITTP11W ITTP11M-NEO ITTP11W-RS-BC ITTPD11W-RS
TDCL42	EF.825.010					2,40	Trifase / Three-phases	3x(380-440)Vac 50-60Hz	42	ITTPD15W-RS ITTP15W-RS-BC ITTP15W
TDCL55	EF.825.011					3,00	Trifase / Three-phases	3x(380-440)Vac 50-60Hz	55	ITTPD22W-RS ITTP22W-RS-BC ITTP22W
TDCL75	EF.825.012					4,00	Trifase / Three-phases	3x(380-440)Vac 50-60Hz	75	ITTP30W-RS-BC ITTPD30W-RS