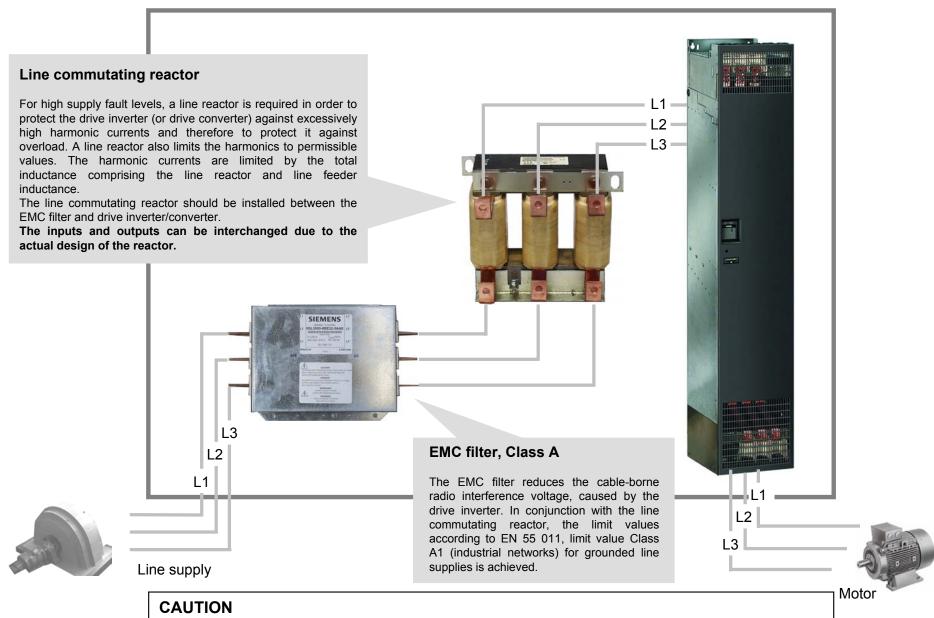
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MICROMASTER 440 Sizes FX / GX Installation Guidelines, Reactor and Filter



All reactors and filters are "stand-alone" units, with degree of protection IP00. The EMC filter, Class A may not be used in conjunction with a line commutating reactor.

The cables between the filter, reactor and drive inverter should be kept as short as possible.

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MICROMASTER 440 Sizes FX / GX

Installation Guidelines, Reactor and Filter

If a line reactor is not used, then the line feeder inductance must be correspondingly higher. This means that $R_{\rm SC}$ (ratio of the system fault level at the line connection point to the apparent drive inverter output) must be sufficiently low.

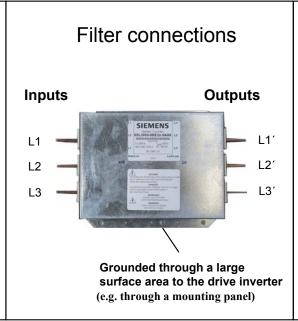
$R_{SC} = S_{k \text{ line}} / \text{ (output of the drive inverter in KW*1.08)}$

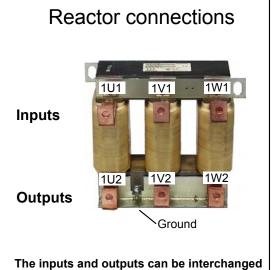
The factor of 1.08 is obtained from the efficiency and the line supply power factor of the drive inverter $Vk_{LINF} = 1/Rsc_{line}*100$

MICROMASTER 440 inverters (90-200kW) are designed for a V_k of at least 2.33%. With the equation

Vk total = Vk _{\text{LINE}} + 2%, generally, it is necessary to use a line commutating reactor.

The power supply company (power utility company) should be contacted for the system fault level. It can also be taken from the rating plate of the upstream transformer. In practice, it is often difficult to determine this data which is the reason that we always recommend that the drive inverter is used with a line reactor.





The inputs and outputs can be interchanged as a result of the reactor design.

Ordering overview

MRPD	Motor output	MRPD	MRPD
MICROMASTER 440	(constant torque)	line commutating reactor	EMC filter, Class A
	III KVV		
6SE6440-2UD38-8FA0	90	6SL3000-0CE32-3AA0	6SL3000-0BE32-5AA0
6SE6440-2UD41-1FA0	110	6SL3000-0CE32-8AA0	6SL3000-0BE34-4AA0
6SE6440-2UD41-3GA0	132	6SL3000-0CE33-3AA0	6SL3000-0BE34-4AA0
6SE6440-2UD41-6GA0	160	6SL3000-0CE35-1AA0	6SL3000-0BE34-4AA0
6SE6440-2UD42-0GA0	200	6SL3000-0CE35-1AA0	6SL3000-0BE36-0AA0