

# EEl MV 1200 SERIES

## CORE DRIVE FOR MV SOLUTIONS

The EEl-MV1200 Series converters offer a competitive drive solution, which can be adapted to specific Customer needs with a wide range of optionally available components and accessories.

EEl-MV1200 series inverters are characterized by:

- Compact design with single heatsink
- Keypad interface for setup drive parameters for easy commissioning.
- Easy access for service operations.
- Liquid cooled

EEl-MV1200 Series are suitable for use in a wide variety of activity fields, for applications in both 2Q and 4Q.

### PRODUCT RANGE

Range of output power available

- 0,25 - 1,25 MVA 1,2kV

### SYSTEM ARCHITECTURE 2 LEVEL

- Solution 2Q - 6 Pulse Inverter
- Solution 4Q - Afe/ Inverter

### MOTOR CONTROL

- Close loop FOC
- Sensorless FOC
- V/F control

### ADDITIONAL COMPONENTS

- Capacitor bank
- Braking unit
- Transformer
- dV/dt or sinus filters generator side
- LCL Filters grid side
- Common mode filter



#### MODULAR

Compact design with single heatsink



#### ADVANCED

Flexible software configuration allow wide functionalities



#### READY

Drives designed for easy and fast integration in cabinet

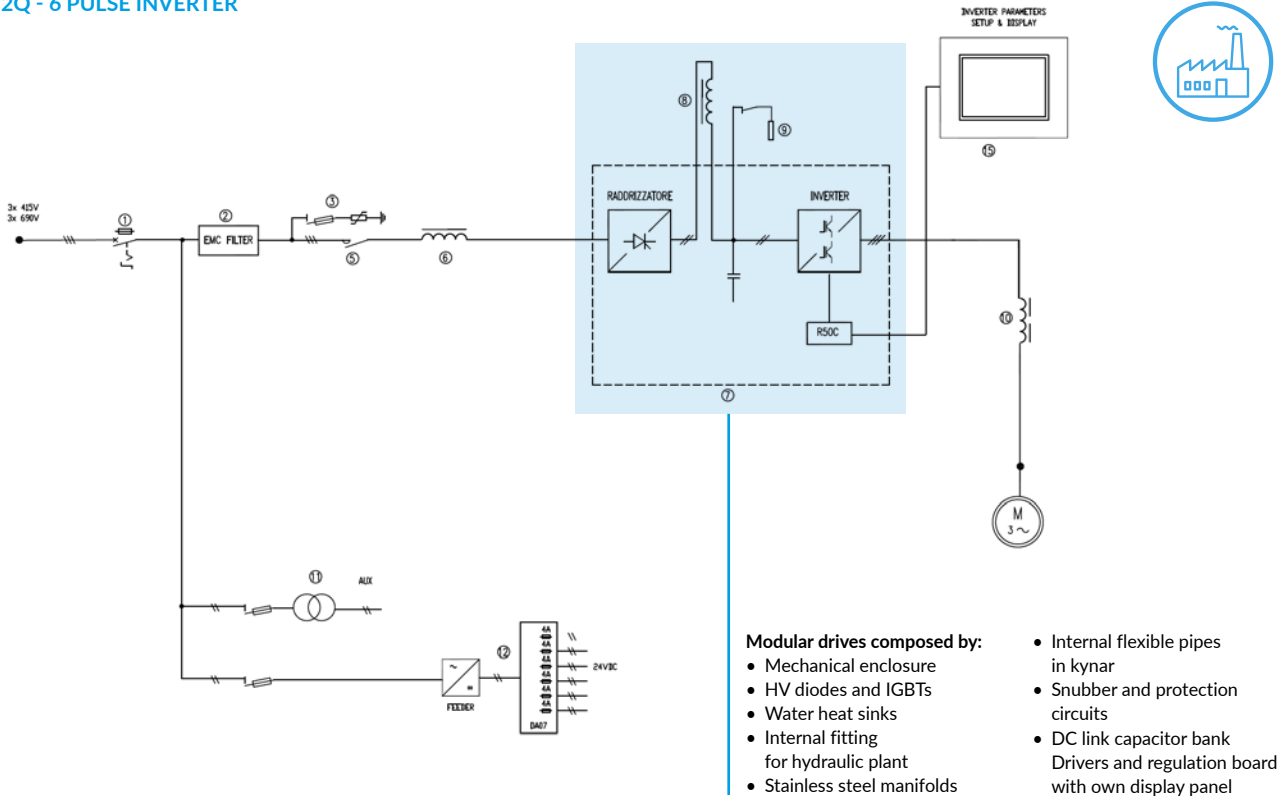


#### RELIABLE & EFFICIENT

Equipped with latest power technology, robust design and energy saving



2Q - 6 PULSE INVERTER



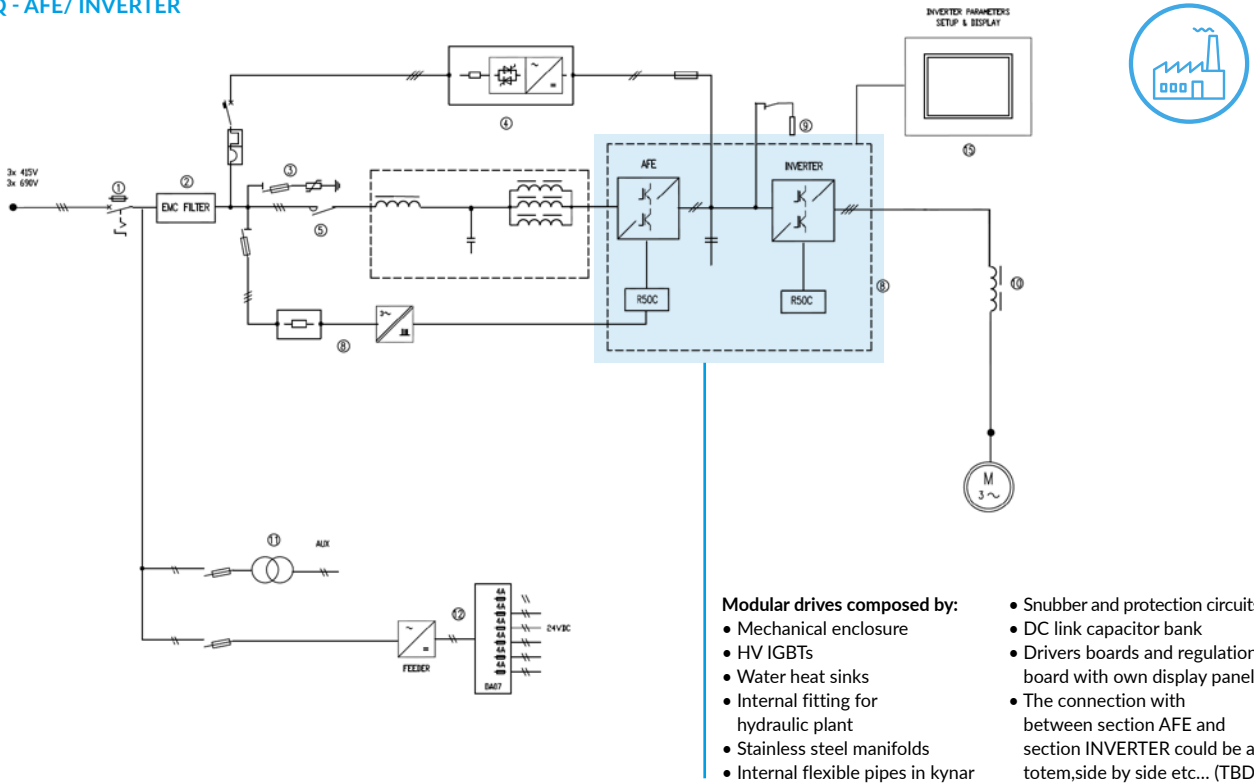
MODEL	9MV122Q-25	9MV122Q-31	9MV122Q-63	9MV122Q-80	9MV122Q-125
<b>GENERAL SPECIFICATION</b>					
Rated Power	250 kW	315 kW	630 kW	800 kW	1250 kW
Rated current	160 A	250 A	400 A	500 A	800 A
Rated Input Voltage	1,2KVac +10%/-15% 3Ph IT or TN				
Rated input frequency	50/60 Hz ±5%	50/60 Hz ±5%	50/60 Hz ±5%	50/60 Hz ±5%	50/60 Hz ±5%
Auxiliares voltage	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
Topology	2 level	2 level	2 level	2 level	2 level
System Architecture	2Q- 6P DIODE RECTIFIER + INVERTER				
Overload	110% for 1 every 10				
Motor Power factor	0,87	0,87	0,87	0,87	0,87
Dimensions (WxHxD)	375x810x315 mm	375x810x315 mm	650x1050x375 mm	650x1050x375 mm	800x1050x400 mm

<b>INSTALLATION</b>					
Operating temperature	-5°C ÷ +50 °C	-5°C ÷ +50 °C	-5°C ÷ +50 °C	-5°C ÷ +50 °C	-5°C ÷ +50 °C
Storage temperature	-10 °C ÷ +55 °C	-10 °C ÷ +55 °C	-10 °C ÷ +55 °C	-10 °C ÷ +55 °C	-10 °C ÷ +55 °C
Relative Humidity	90% @ 20°C no condensing				
Altitude	< 1000 m a.s.l.	< 1000 m a.s.l.	< 1000 m a.s.l.	< 1000 m a.s.l.	< 1000 m a.s.l.
Protection Degree	IP 00	IP 00	IP 00	IP 00	IP 00
Cooling method	Water cooling system				

<b>COMMUNICATION</b>	
Communication interfaces	CAN Bus and RS485 built in communication or Ethernet connection through Modbus TCP or Profibus (TBD)

<b>PROTECTIONS</b>	
Self-diagnostic	Over current, Short circuit, Ground Fault, Phase loss detection, Over Voltage, Under Voltage, Over temperature. Others upon request.

## 4Q - AFE/ INVERTER



MODEL	9MV124Q-25	9MV124Q-31	9MV124Q-63	9MV124Q-80	9MV124Q-125
<b>GENERAL SPECIFICATION</b>					
Rated Power	250 kW	315 kW	630 kW	800 kW	1250 kW
Rated current	160 A	250 A	400 A	500 A	800 A
Rated Input Voltage	1,2KVac +10%/-15% 3Ph IT or TN				
Rated input frequency	50/60 Hz ±5%	50/60 Hz ±5%	50/60 Hz ±5%	50/60 Hz ±5%	50/60 Hz ±5%
Auxiliares voltage	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
Topology	2 level	2 level	2 level	2 level	2 level
System Architecture	4Q HV IGBT AFE +INVERTER				
THDI (grid side)	< 3%	< 3%	< 3%	< 3%	< 3%
Overload	110% for 1 every 10				
Motor Power factor	0,87	0,87	0,87	0,87	0,87
Dimensions (WxHxD)	375x1210x315 mm	375x1210x315 mm	650x1500x375 mm	650x1500x375 mm	800x1500x400 mm

### INSTALLATION

Operating temperature	-5°C ÷ +50 °C	-5°C ÷ +50 °C	-5°C ÷ +50 °C	-5°C ÷ +50 °C	-5°C ÷ +50 °C
Storage temperature	-10 °C ÷ +55 °C	-10 °C ÷ +55 °C	-10 °C ÷ +55 °C	-10 °C ÷ +55 °C	-10 °C ÷ +55 °C
Relative Humidity	90% @ 20°C no condensing				
Altitude	< 1000 m a.s.l.	< 1000 m a.s.l.	< 1000 m a.s.l.	< 1000 m a.s.l.	< 1000 m a.s.l.
Protection Degree	IP 00	IP 00	IP 00	IP 00	IP 00
Cooling method	Water cooling system				

### COMMUNICATION

Communication interfaces	CAN Bus and RS485 built in communication or Ethernet connection through Modbus TCP or Profibus (TBD)
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### PROTECTIONS

Self-diagnostic	Over current, Short circuit, Ground Fault, Phase loss detection, Over Voltage, Under Voltage, Over temperature. Others upon request.
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