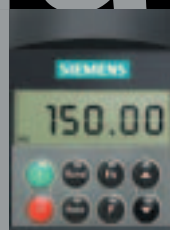




micromaster



MICROMASTER 410/420/430/440
Inverters
0.12 kW to 250 kW



SIEMENS

MICROMASTER 410/420/430/440

Overview

Options

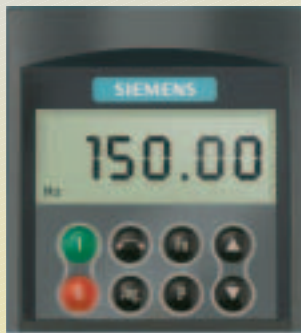
Various options are available for the MICROMASTER:

- Filters
- Chokes
- Operator panels
- PROFIBUS module
- DeviceNet module
- Pulse encoder evaluation module
- Gland plates
- Mounting kits, etc.

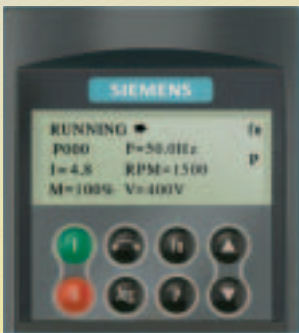
Assignment of operator panels and modules to the converter ranges

Accessories	Order No.	MICROMASTER			
		410	420	430	440
Operator panels					
OP	6SE6400-0SP00-0AA0	●			
BOP	6SE6400-0BP00-0AA0		●		●
AOP	6SE6400-0AP00-0AA1		●		●
BOP-2	6SE6400-0BE00-0AA0			●	
Modules					
PROFIBUS	6SE6400-1PB00-0AA0		●	●	●
DeviceNet	6SE6400-1DN00-0AA0		●	●	●
Pulse encoder evaluation	6SE6400-0EN00-0AA0				●

● Possible combination



BOP/OP



AOP



BOP-2

Operator panels



PROFIBUS



DeviceNet



Pulse encoder evaluation

Modules

Options

Ordering Data for Variant Independent Options

The options listed here are suitable for all MICROMASTER 420 Inverters.

Options	Order No.
Basic Operator Panel (BOP)	6SE6400-0BP00-0AA0
Advanced Operator Panel (AOP)	6SE6400-0AP00-0AA1
PROFIBUS module	6SE6400-1PB00-0AA0
DeviceNet module	6SE6400-1DN00-0AA0
RS485/PROFIBUS bus connector	6GK1500-0FC00
Connection set for PC to inverter	6SE6400-1PC00-0AA0
Connection set for PC to AOP	6SE6400-0PA00-0AA0
Operator panel door mounting kit for single inverter	6SE6400-0PM00-0AA0
AOP-door mounting kit for multiple inverter (USS)	6SE6400-0MD00-0AA0

Technical data of the communications modules

PROFIBUS module
6SE6400-1PB00-0AA0



DeviceNet module
6SE6400-1DN00-0AA0



Size (height x width x depth)	161 mm x 73 mm x 46 mm	
Degree of protection	IP 20	
Degree of pollution	2 to IEC 60 664-1 (DIN VDE 0110/T1), no condensation permitted during operation	
Mechanical strength	to DIN IEC 60 068-2-6 (if module installed correctly)	
• Stationary	Deflection	0.15 mm in the frequency range of 10 Hz to 58 Hz
• Transport	Acceleration	19.6 m/s ² in the frequency range of 58 Hz to 500 Hz
	Deflection	3.5 mm in the frequency range of 5 Hz to 9 Hz
	Acceleration	9.8 m/s ² in the frequency range of 9 Hz to 500 Hz
Climatic category (during operation)	3K3 to DIN IEC 60 721-3-3	
Cooling method	Natural air cooling	
Permissible ambient or cooling agent temperature	–10 °C to +50 °C (14 °F to 122 °F)	
• in operation	–25 °C to +70 °C (–13 °F to 158 °F)	
• during storage and transport		
Relative humidity (permissible humidity rating)	≤ 85% (non-condensing)	
• in operation	≤ 95%	
• during storage and transport		
Electromagnetic compatibility	Emission	to EN 55 011 (1991) Class A
	Interference radiation	to IEC 60 801-3 and EN 61 000-4-3
Supply voltage	6.5 V ± 5%, max. 300 mA, internal from inverter or 24 V ± 10%, max. 350 mA, external	6.5 V ± 5%, max. 300 mA internal from inverter and 24 V, max. 60 mA from DeviceNet bus
Output voltage	5 V ± 10%, max. 100 mA, galvanically isolated supply • for terminating the serial interface bus or • for supplying the OLP (Optical Link Plug)	–
Data transmission rate	max. 12 Mbaud	125, 250 and 500 kbaud

Options

Ordering Data for Variant Independent Options

The options listed here are suitable for all MICROMASTER 430.

Option	Order No.
Basic Operator Panel 2 (BOP-2)	6SE6400-0BE00-0AA0
PROFIBUS module	6SE6400-1PB00-0AA0
DeviceNet module	6SE6400-1DN00-0AA0
RS485/PROFIBUS bus connector	6GK1500-0FC00
Connection set for PC to inverter	6SE6400-1PC00-0AA0
Operator panel door mounting kit for single inverter	6SE6400-0PM00-0AA0

Technical data of the communications modules

PROFIBUS module
6SE6400-1PB00-0AA0



DeviceNet module
6SE6400-1DN00-0AA0



Size (height x width x depth)		161 mm x 73 mm x 46 mm	
Degree of protection		IP 20	
Degree of pollution		2 to IEC 60664-1 (DIN VDE 0110/T1), no condensation permitted during operation	
Mechanical strength		to DIN IEC 60068-2-6 (if module installed correctly)	
• Stationary	Deflection	0.15 mm in the frequency range of 10 Hz to 58 Hz	
	Acceleration	19.6 m/s ² in the frequency range of 58 Hz to 500 Hz	
• Transport	Deflection	3.5 mm in the frequency range of 5 Hz to 9 Hz	
	Acceleration	9.8 m/s ² in the frequency range of 9 Hz to 500 Hz	
Climatic category (during operation)		3K3 to DIN IEC 60721-3-3	
Cooling method		Natural air cooling	
Permissible ambient or cooling agent temperature			
• in operation		–10 °C to +50 °C (14 °F to 122 °F)	
• during storage and transport		–25 °C to +70 °C (–13 °F to 158 °F)	
Relative humidity (permissible humidity rating)			
• in operation		≤85% (non-condensing)	
• during storage and transport		≤95%	
Electromagnetic compatibility	Emission Interference radiation	to EN 55011 (1991) Class A to IEC 60801-3 and EN 61000-4-3	
Supply voltage		6.5 V ± 5%, max. 300 mA, internal from inverter or 24 V ± 10%, max. 350 mA, external	6.5 V ± 5%, max. 300 mA internal from inverter and 24 V, max. 60 mA from DeviceNet bus
Output voltage		5 V ± 10%, max. 100 mA, galvanically isolated supply • for terminating the serial interface bus or • for supplying the OLP (Optical Link Plug)	–
Data transmission rate		max. 12 Mbaud	125, 250 and 500 kbaud

Ordering Data for Variant Independent Options

The options listed here are suitable for all MICROMASTER 440 Inverters.

Options	Order No.
Basic Operator Panel (BOP)	6SE6400-0BP00-0AA0
Advanced Operator Panel (AOP)	6SE6400-0AP00-0AA1
PROFIBUS module	6SE6400-1PB00-0AA0
DeviceNet module	6SE6400-1DN00-0AA0
Pulse encoder evaluation module	6SE6400-0EN00-0AA0
RS485/PROFIBUS bus connector	6GK1500-0FC00
Connection set for PC to inverter	6SE6400-1PC00-0AA0
Connection set for PC to AOP	6SE6400-0PA00-0AA0
Operator panel door mounting kit for single inverter	6SE6400-0PM00-0AA0
AOP-door mounting kit for multiple inverter (USS)	6SE6400-0MD00-0AA0

Technical data of the communications modules

PROFIBUS module
6SE6400-1PB00-0AA0



DeviceNet module
6SE6400-1DN00-0AA0



Size (height x width x depth)	161 mm x 73 mm x 46 mm	
Degree of protection	IP 20	
Degree of pollution	2 to IEC 60664-1 (DIN VDE 0110/T1), no condensation permitted during operation	
Mechanical strength	to DIN IEC 60068-2-6 (if module installed correctly)	
• Stationary	Deflection	0.15 mm in the frequency range of 10 Hz to 58 Hz
• Transport	Acceleration	19.6 m/s ² in the frequency range of 58 Hz to 500 Hz
	Deflection	3.5 mm in the frequency range of 5 Hz to 9 Hz
	Acceleration	9.8 m/s ² in the frequency range of 9 Hz to 500 Hz
Climatic category (during operation)	3K3 to DIN IEC 60721-3-3	
Cooling method	Natural air cooling	
Permissible ambient or cooling agent temperature	–10 °C to +50 °C (14 °F to 122 °F)	
• in operation	–25 °C to +70 °C (–13 °F to 158 °F)	
• during storage and transport		
Relative humidity (permissible humidity rating)	≤ 85 % (non-condensing)	
• in operation	≤ 95 %	
• during storage and transport		
Electromagnetic compatibility	Emission	to EN 55011 (1991) Class A
	Interference radiation	to IEC 60801-3 and EN 61000-4-3
Supply voltage	6.5 V ± 5 %, max. 300 mA, internal from inverter or 24 V ± 10 %, max. 350 mA, external	6.5 V ± 5 %, max. 300 mA internal from inverter or 24 V, max. 60 mA from DeviceNet bus
Output voltage	5 V ± 10 %, max. 100 mA, galvanically isolated supply • for terminating the serial interface bus or • for supplying the OLP (Optical Link Plug)	–
Data transmission rate	max. 12 Mbaud	125, 250 and 500 kbaud