

Features:

- ❑ fully digital control
- ❑ adjustable fixed frequencies
- ❑ detachable operating unit
- ❑ torque vector control
- ❑ slip compensation
- ❑ automatic adaptation to motor characteristics
- ❑ max. rotating field frequency 400Hz
- ❑ DC brake
- ❑ integrated PID-controller
- ❑ RS 485 integrated
- ❑ Options (Profibus, Interbus-S, CAN open)
- ❑ Self-optimization-system
- ❑ degree of protection IP40



Frequency Inverters
FUS 010 ... 220/E11S
FUS 037 ... 750/3E11S



Function:

- ❑ Control and setpoint entry via terminals and operating unit
- ❑ PWM clock frequency 1-15kHz
- ❑ DC-braking (duration, intensity, operating frequency)
- ❑ potential-free control and signalling contacts
- ❑ integrated braking chopper
- ❑ automatic restart after voltage dip

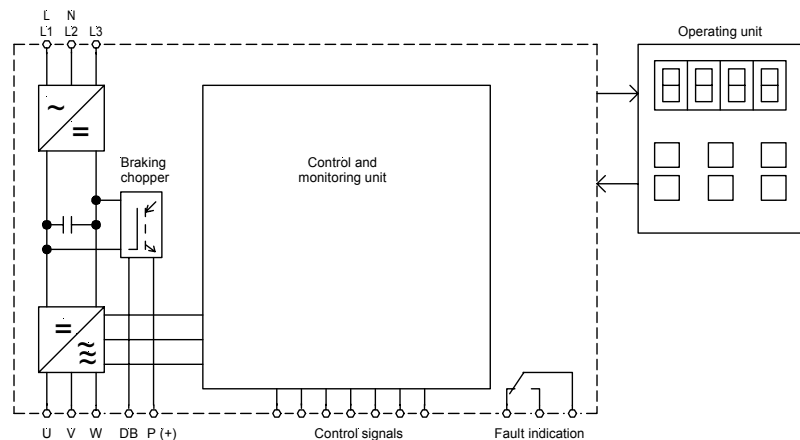
Typical Applications:

pumps
ventilators
conveying systems
textile machines
packaging machinery

centrifuges
grinding machines
printing machines
wood working machines
vibrators

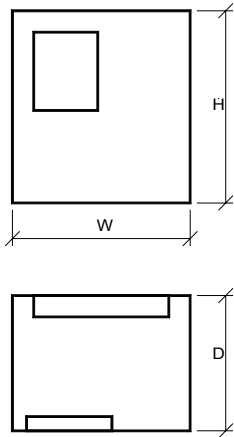
Upon Request:

- ❑ Customized Enclosures



Technical Data	FUS .../E11S						FUS .../3E11S							
	010	020	037	075	150	220	037	075	150	220	400	550	750	
Motor shaft power / kW	0.1	0.2	0.37	0.75	1.5	2.2	0.37	0.75	1.5	2.2	4.0	5.5	7.5	
Mains voltage	single-phase 200-240V, 50/60Hz						three-pahse 380-480V, 50/60Hz							
Output current / A	0.7	1.4	2.5	4.0	7.0	10.0	1.4	2.1	3.7	5.3	8.7	12.0	16.0	
Peak current for 1min. / A	1.05	2.1	3.75	6.0	10.5	15.0	2.1	3.2	5.5	8.0	13.0	18.0	24.0	
Control functions														
Frequency setting range	0 - 400Hz													
Torque boost	U/f - characteristic: square or linear													
Ramp-up and ramp-down time	0.01 . 3600s													
DC brake	operating frequency 0.2-60Hz, braking time 0.01-30s, intensity 0 - 100%													
Frequency setpoint	poti 1-5kΩ, 0-±10V, 4-20mA, keypad, fixed frequencies, motor poti													
Ambient / Storage temperature	-10°C ... +50°C / -20°C ... +65°C													
Weight / kg	0.6	0.7	0.7	1.2	1.8	1.9	1.1	1.2	1.3	1.4	1.9	4.5	4.5	
Order number	25000. 22010	25000. 22020	25000. 22037	25000. 22075	25000. 22150	25000. 22220	25100. 38037	25100. 38075	25100. 38150	25100. 38220	25100. 38400	25100. 38550	25100. 38750	
recommended mains filter	27002. 24006		27002. 24018		27002. 24029		27002. 48005		27002. 48010		27002. 48015		27002. 48030	

For line and motor reactors see accessories.

Dimensions:

	W [mm]	H [mm]	D [mm]
FUS 010/E11S	70	130	96
FUS 020/E11S	70	130	101
FUS 037/E11S	70	130	118
FUS 075/E11S	106	130	126
FUS 150/E11S	170	130	158
FUS 220/E11S	170	130	158
FUS 037/3E11S	106	130	126
FUS 075/3E11S	106	130	150
FUS 150/3E11S	106	130	170
FUS 220/3E11S	106	130	170
FUS 400/3E11S	170	130	158
FUS 550/3E11S	180	220	158
FUS 750/3E11S	180	220	158

Connection Diagram: