

Features:

- ▣ very compact design
- ▣ fully digital control
- ▣ easy programming
- ▣ max. rotating field frequency 200Hz
- ▣ DC brake
- ▣ integrated mains filter (radio interference suppression level A)
- ▣ degree of protection IP65
 - potentiometer
 - power switch
 - right-left-switch
- ▣ IGBT - power stage
- ▣ 3 fixed frequencies



Frequency Inverters
FUS 020 ... 220/E2/IP65
FUS 075 ... 220/3E2/IP65



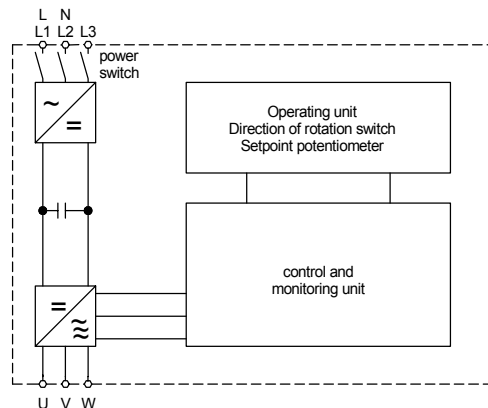
Function:

- ▣ control and setpoint entry via terminals and operating unit
- ▣ PWM clock frequency 4-16kHz
- ▣ DC braking (duration, intensity, operating frequency)
- ▣ potential-free control and signalling contacts
- ▣ restart after voltage dip

Typical Applications:

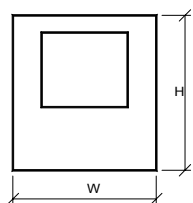
pumps
 ventilators
 conveying systems
 textile machinery
 packaging machinery

centrifuges
 grinding machines
 printing machines
 wood working machines
 vibrators



Technical Data	FUS ... /E2/IP65					FUS ... /3E2/IP65		
	020	037	075	150	220	075	150	220
Motor shaft power / kW	0.2	0.37	0.75	1.5	2.2	0.75	1.5	2.2
Mains voltage according to DIN EN 50160 (IEC 38)	single-phase 200-240V +10%, -15% 50/60Hz ±5%					three-phase 380-460V, +10%, -15% 50/60Hz ±5%		
Output current	1.4A	2.3A	4.2A	7.5A	10.5A	2.3A	3.8A	5.2A
Peak current for 1min.	2.1A	3.4A	6.3A	11.3A	15.8A	3.4A	5.7A	7.8A
Control Functions								
Frequency setting range	1 - 120Hz							
Torque boost	6 U/f - characteristics							
Ramp-up and ramp-down time	0.1 - 999s							
DC brake	operating frequency 1-10Hz, braking time 0-25s, intensity 0 - 20%							
Frequency setpoint	poti 10kΩ, 0-10V, 0-20mA, 4-20mA, keypad							
Ambient / Storage temperature	-10°C ... +50°C / -20°C ... +55°C							
Weight	1.2kg	1.3kg	1.3kg	2.2kg	2.3kg	2.1kg	2.2kg	2.3kg
Order number	24801. 23020	24801. 23037	24801. 23075	24801. 23150	24801. 23220	24801. 40075	24801. 40150	24801. 40220

For line and motor reactors see accessories.

Dimensions:

	W [mm]	H [mm]	D [mm]
FUS 020/E2/IP65	141	216	183
FUS 037/E2/IP65	141	216	183
FUS 075/E2/IP65	141	216	183
FUS 150/E2/IP65	232	295	212
FUS 220/E2/IP65	232	295	212
FUS 075/3E2/IP65	232	295	212
FUS 150/3E2/IP65	232	295	212
FUS 220/3E2/IP65	232	295	212

Connection Diagram: