



Solutions for Drives

FRN C1

FRENIC Mini

Motor capacity between 0.1 and 4.0kW

Simplified torque vector control

High starting torque of 150% and more at 5 Hz

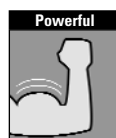
Internal PID control

Breaking chopper included

EMC filter built-in types

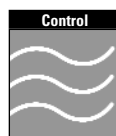
Certified according to world-wide standards

FRN C1E/S-7/4 – the best choice for all-round applications



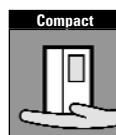
Simplified torque vector

- High starting torque of 150% and more at 5 Hz
- Optimal control of output torque by adding simplified magnetic flux estimator to V/f control
- On-delay compensation for reduced motor instability at low speed



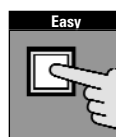
PID control

- Equipped with an integrated PID regulator to control flow and pressure in fans and pumps



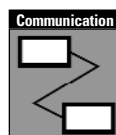
Compact

- Miniaturization to minimum level in the class
- Line-up to 4.0kW/400V (constant torque)



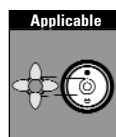
Simple operation

- On-board potentiometer for on site commissioning
- Controller connections for 0-10V, 0-5V and 4-20mA



Series communication

- RS485 - connection option for higher automation levels
- Windows software
- Copy function with an external copy unit



Application

Agitators, separators, conveyor belts, air conditioning systems, fans, pumps, fitness units etc.

Fuji Electric is one of the leading companies in drive and automation technology. Frequency inverters by Fuji Electric have been displaying their high quality standards and extensive performance spectrum for more than 25 years. The manufacturer's "know-how" and the world-wide availability of Fuji Electric guarantee safe implementation in machinery and systems.

FRN C1E/S-7/4 – General specification

Standard motor rating	kW	0.1	0.75	2.2	0.4	1.5	4.0
Rated capacity	kVA	0.3	1.9	4.1	1.1	2.8	6.8
Output voltage	V	3-phase, 0-U _N					
Nominal current	A	0.8	5.0	11.0	1.5	3.7	9.0
Overload capability	A	200% for 0.5s., 150% for 1min.					
Input voltage	V	1-phase, 200V – 240V, 50/60Hz			3-phase, 380V – 480V, 50/60Hz		
Voltage/Frequency tolerance		Voltage +10 to –15%, Frequency +5 to –5%					
Protection type		IP20					
Cooling system		Natural	Natural	Fan	Natural	Fan	Fan
Carrier frequency		0.75 to 15kHz					
Ambient temperature range		–10°C to +50°C (without performance reduction)					
Dimensions *	C1S	120x80x80	120x80x140	180x140x139	130x110x115	130x110x139	180x140x139
LxWxH [mm]	C1E	120x80x100	130x110x139	180x140x182	130x110x158	180x140x182	180x140x182

* C1E with EMC filter built-in

Distributor: