



FRENIC-Lift



Your Best Choice for Home Lift!

- Dedicated inverter for home lift application
- Friendly to use
- Powerful: 200% of rated current for 3s
- Rescue Operation with UPS or Batteries
- Available in 1 ph 200 V (2,2 kW)
- Economic
- Low Maintenance: Long-Life Design
- Compliance with EN 954-1 Cat 3 (One output contactor can be removed)
- EMC filter to fulfil EN 61800-3:2004 and EN 12015:2004

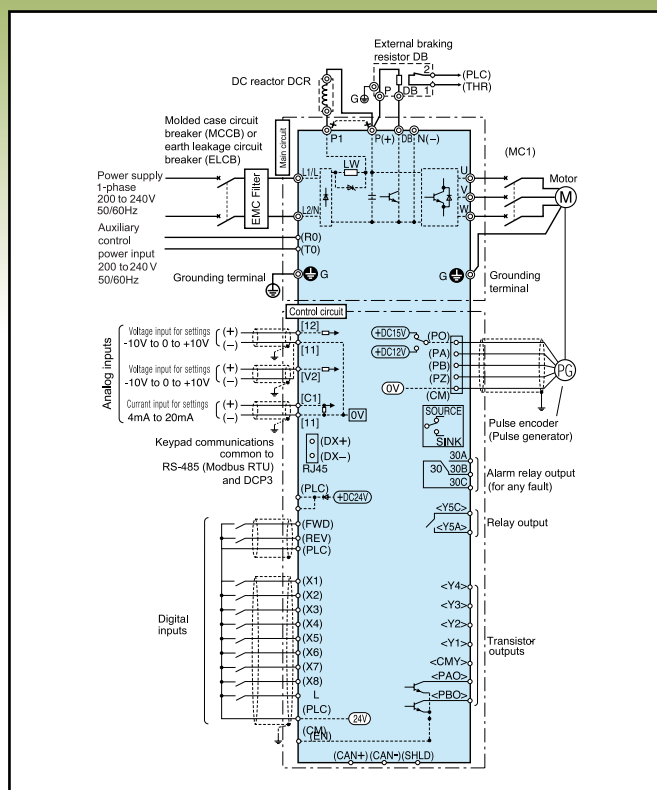


Standard Specifications 1ph 200 V series

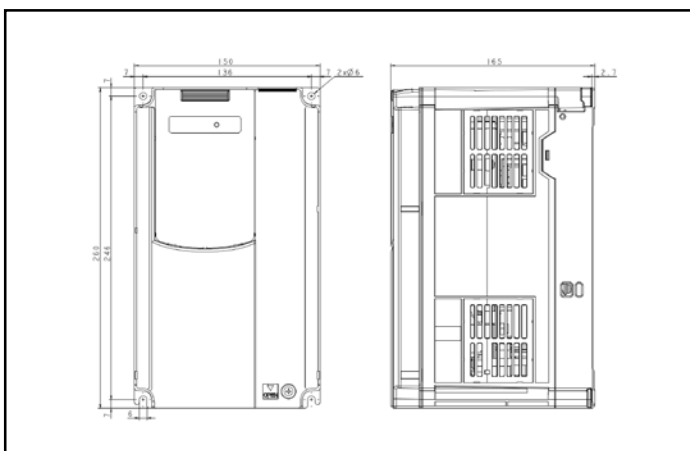
Item		Specifications		
Type FRN	LM1S-7	2.2		
Nominal applied motor [kW]		2.2		
Output ratings	Rated capacity [kVA]	4.1		
	Rated voltage [V]	Three -phase 200V-220V, 50/60Hz		
	Rated current ¹ [A]	11		
	Overload capacity [A] (Permissible energizing time)	22 (3s)		
	Rated frequency [Hz]	50, 60Hz		
	Input ratings	Normal operation	Main power supply Phases, Voltage, Frequency	Single -phase, 200 to 240V, 50/60Hz
Auxiliary control power input Phases, Voltage, Frequency			Single-phase, 200 to 240V, 50/60Hz	
Voltage/frequency variations			Voltage: +10 to -15% Frequency: +5 to -5%	
Rated current [A]			with DCR: 17.5 without DCR: 24	
Required power supply capacity [kVA]			3.5	
Battery operation		Main power supply	24VDC or higher	
		Auxiliary control power input	Phases, Voltage, Frequency	Single-phase, 200 to 240V, 50/60Hz
			Variations	Voltage: +10 to -15% Frequency: +5 to -5%
		Operation time [s]	180	
		Braking	Braking time [s]	60
Braking duty-cycle (%ED) [%]	50			
Rated regenerative power [kW]	1.76			
Minimum resistance which can be connected [Ω]	33			
DC Reactor (DCR)		Option		
Applicable safety standard		EN61800-5-1, EN954-1 Category3		
Enclosure (IEC60529)		IP20		
Cooling method		Fan cooling		
Weight/Mass [kg]		3.0		

¹ Rated current for 10 kHz switching frequency, 45°C ambient temperature and 80% ED.

Basic Connection Diagram



External Dimensions (mm)



Advanced Functions Dedicated to Home Lift Applications

- Static pole tuning for Permanent Magnet Synchronous motor
- Permanent Magnet Synchronous motors can be controlled with incremental encoder without using additional option (Previous Fuji Electric validation of the motor)
- Other encoder types can be used by adding optional cards: Heidenhain EnDat 2.1 encoder, SinCos encoder
- Brake control function
- Main contactors function
- Excellent rollback avoidance
- Short floor operation
- Direct to floor operation
- Anticipated door opening function
- Easy rescue operation with recommended direction signal. Speed and direction can be shown
- 10 different linear acceleration/deceleration ramps
- 14 different S ramps
- Automatic control of the cooling fan: Silent operation and energy saving
- PC loader tool (Loader software free of charge)
- Multifunction keypad with 12 languages is optional
- Ground fault protection
- Input phase lost protection
- Overheat early warning indication signal

Rescue Operation

