

Innovating Energy Technology

smaller smarter

Finest drives specialized in lift applications



9 Fuji Electric

- O Contactor-less solution compliant to EN 81-1 + A3
- Customizable logic capability (PLC function)
- Built-in advanced fieldbuses dedicated to lift applications (CANopen CiA DSP 402 & 417 and DCP 3 & 4)
- O Built-in EMC filter
- O Different energy saving levels according to Draft ISO 25745 & VDI 4707

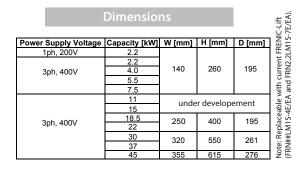
FRENIC-Lift

In 2005, Fuji Electric designed the first FRENIC-Lift inverter to fulfill the requirements of lift applications. FRENIC-Lift is nowadays the most preferred inverter for lift application in the market.

By using the experiences in market, we have now developed the upgraded version of FRENIC-Lift: smaller but smarter.

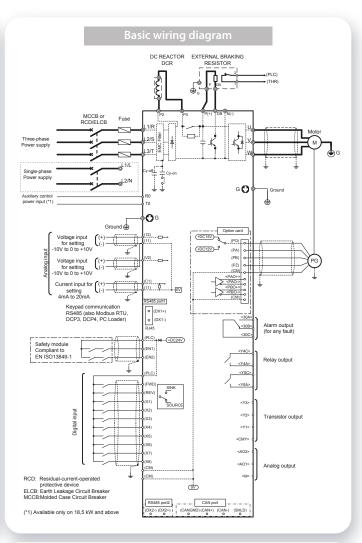
Further advanced functions

- Faster speed and current control loop for easier and faster comfort adjustment
- Two new motor control modes: Vector control with peripheral PG and Sensor-less vector control for rescue operation (PMSM)
- Removable control terminals
- Easier rescue operation with 24 VDC power supply for control board
- Several certified functions for safety operation
- New software functions to make easier setup
- Product range of 1ph 200 V 2.2 kW and 3ph 400 V 2.2 kW 45 kW



Standard Specifications: Single-phase 200 V & Three-phase 400 V Serie

		ltem			Specifications												
Ser	ies				Single-phase 200 V	200 V Three-phase 400 V											
Type Name					FRN_LM2G-7_	FRN_LM2G-4_											
тур	e Name				2.2	2.2	4	5.5	7.5	11	15	18.5	22	30	37	45	
Nor	ninal ap	plied moto	r [k	W]	2.2	2.2	4	5.5	7.5	11	15	18.5	22	30	37	45	
	Rated capacity [kVA]				4.1	4.1	6.8	10	14	18	24	29	34	45	57	69	
Output ratings	Rated voltage [V]				Three-phase 200 to 240 V, 50/60 Hz	Three-phase 380 to 480 V, 50/60 Hz											
	Rated current [A]				11	5.5	9	13.5	18.5	24.5	32	39	45	60	75	91	
f		ad capacity	• •		22	11	18	27	37	49	64	78	90	120	150	182	
0	(Permissible energizing time)				(3s)	(3S)	(3s)	(3s)	(3s)	(3s)	(3s)	(3s)	(3s)	(3s)	(3s)	(3s)	
	Rated frequency [Hz]				50, 60 Hz												
Input ratings		Main power supply, Phases, Voltage, Frequency			Single-phase 200 to 240 V, 50/60 Hz												
	Normal operation	Auxiliary control power input voltage			Option fo	Option for 24 VDC (+10 to -15%)							24 VDC or Single- phase 220 to 480 VAC		24 VDC (+10 to -15%) or Single- phase 380 to 480 VAC		
		Voltage/frequency variations			Voltage: +10 to -15% (Voltage unbalance: 2% or less), Frequency: +5 to -5%												
		Rated curre [A]	ent	with DCR	-	4.5	7.5	10.6	14.4	21.1	28.8	35.5	42.2	57	68.5	83.2	
		Required power supply capacity (with DCR) [kVA]			3.5	3.2	5.2	7.4	10	15	20	25	30	40	48	58	
	uc	Main power supply, Phases, Voltage, Frequency			Single-phase 200 Single-phase 220 to 480V, 50/60Hz to 240V, 50/60 Hz Single-phase 220 to 480V, 50/60Hz												
	UPS Operation	Auxiliary control power input voltage			Option fo	Option for 24 VDC (+10 to -15%)							DC or gle- 220 0 VAC	24 VDC (+10 to -15%) or Single- phase 380 to 480 VAC			
	ß	Voltage/frequency variations			Voltage: +10 to -10%, Frequency: +5 to -5%												
		Operation time [s]			180												
	uo	Main power supply			24 VDC or more in the direct current voltage conversion												
	attery operation	Auxiliary control power input		Phases, /oltage	Option for 24 VDC (+10% to -15%)												
	Ba	Operation time [s]			180												
g	Brakin	g time [s]			60												
Braking	Braking duty-cycle (%ED) [%]				50												
EMC filter (IEC/EN 61800-3:2004)													standards compliance: Category C3 emission) / 2nd Env. (Immunity)				
Applicable safety standard					CSA B44.1-11/ASME A17.5-2011, EN 61800-5-1:2007, ISO 13849-1(STO PLe Cat. 4), EN61800-5-2 (SIL 3)												
Enclosure (IEC60529)					IP20 (IP54 heat sink) IP20 IP00												
Cooling method					Fan cooling												



Options

Two types of keypad available:

- Multifunction LED keypad
 - USB port

Customizable LCD keypad

- User friendly
- Possible to display real system values
- with preferable indications
- Multi language support: 19 different
- languages + user customized language

Option board for main market encoders

- Option for line driver encoders
- Option for open collector encoders
- Option for SinCos absolute encoders
- Option for serial communication encoders
- (EnDat 2.1 & 2.2, Hiperface, SSI, Biss)

Encoder pulses feedback built-in in options: Line driver with frequency divider





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