

FRENIC-Lift(LM1)

Issued on 29th Jun 2021



Drive power loss data disclosure pursuant to COMMISSION REGULATION (EU) 2019/1781

FRENIC-Lift(LM1) Series	(1) Power loss data at operating points according to Commission Regulation (EU) 2019/1781										(2) IE class	(3) Manufacturer, commercial registration number and address	(4) Product's model identifier ⁵	(5) Apparent output power ² [kVA]	(6) Indicative motor rated power output [kW]	(7) Rated output current ³ [A]	(8) Max. operating temperature [°C]	(9) Rated supply frequency [Hz]	(10) Rated supply voltage [V]	Power loss measurement method
	Standby [W]	Standby [%]	Partial load ¹ (90, 100) [%]	Partial load ¹ (50, 100) [%]	Partial load ¹ (0, 100) [%]	Partial load ¹ (90, 50) [%]	Partial load ¹ (50, 50) [%]	Partial load ¹ (0, 50) [%]	Partial load ¹ (50, 25) [%]	Partial load ¹ (0, 25) [%]										
FRN4.0LM1S-4*○	15.0	0.2%	2.1%	1.9%	1.8%	1.6%	1.5%	1.5%	1.3%	1.3%	IE 2	Fuji Electric Co., Ltd 5520, Minami Tamagaki-cho, Suzuka-city, Mie 513-8633, Japan	FRN4.0LM1S-4*○	6.8	3.7	9	45°C	50Hz, 60Hz	380 to 480	Input-output
FRN5.5LM1S-4*○	14.7	0.1%	1.9%	1.8%	1.7%	1.2%	1.2%	1.1%	1.0%	0.9%	IE 2		FRN5.5LM1S-4*○	10.2	5.5	13.5				
FRN7.5LM1S-4*○	14.9	0.1%	2.1%	1.8%	1.7%	1.2%	1.1%	1.1%	0.9%	0.9%	IE 2		FRN7.5LM1S-4*○	14	7.5	18.5				
FRN11LM1S-4*○	15.1	0.1%	2.1%	1.8%	1.7%	1.3%	1.3%	1.2%	0.8%	0.9%	IE 2		FRN11LM1S-4*○	18	11	24.5				
FRN15LM1S-4*○	15.0	0.1%	2.0%	1.8%	1.7%	1.3%	1.2%	1.1%	0.9%	0.9%	IE 2		FRN15LM1S-4*○	24	15	32				
FRN18.5LM1S-4*○	15.0	0.1%	2.0%	1.8%	1.7%	1.2%	1.1%	1.1%	0.9%	0.9%	IE 2		FRN18.5LM1S-4*○	29	18.5	39				
FRN22LM1S-4*○	14.7	0.0%	1.9%	1.8%	1.6%	1.2%	1.0%	1.0%	0.8%	0.8%	IE 2		FRN22LM1S-4*○	34	22	45				
FRN30LM1S-4*○	22.4	0.0%	2.0%	1.8%	1.6%	1.1%	1.1%	1.0%	0.8%	0.8%	IE 2		FRN30LM1S-4*○	45	30	60				
FRN37LM1S-4*○	30.2	0.1%	1.7%	1.6%	1.5%	1.0%	0.9%	0.9%	0.7%	0.7%	IE 2		FRN37LM1S-4*○	57	37	75				
FRN45LM1S-4*○	30.5	0.0%	1.6%	1.5%	1.4%	0.9%	0.9%	0.9%	0.7%	0.7%	IE 2		FRN45LM1S-4*○	69	45	91				
FRN5.5LM1S-2*○	13.2	0.1%	2.4%	2.0%	1.8%	1.3%	1.2%	1.1%	0.9%	0.8%	IE 2		FRN5.5LM1S-2*○	10.2	5.5	27				
FRN7.5LM1S-2*○	12.7	0.1%	2.5%	2.1%	1.8%	1.3%	1.2%	1.1%	0.8%	0.8%	IE 2		FRN7.5LM1S-2*○	14	7.5	37				
FRN11LM1S-2*○	13.7	0.1%	2.3%	1.9%	1.6%	1.3%	1.1%	1.0%	0.8%	0.7%	IE 2		FRN11LM1S-2*○	18	11	49				
FRN15LM1S-2*○	13.4	0.1%	2.2%	1.8%	1.6%	1.2%	1.0%	0.9%	0.7%	0.7%	IE 2		FRN15LM1S-2*○	24	15	63				
FRN18.5LM1S-2*○	12.5	0.0%	2.2%	1.8%	1.6%	1.2%	1.0%	0.9%	0.7%	0.7%	IE 2		FRN18.5LM1S-2*○	28	18.5	74				
FRN22LM1S-2*○	13.2	0.0%	2.3%	1.9%	1.7%	1.2%	1.0%	0.9%	0.7%	0.7%	IE 2		FRN22LM1S-2*○	34	22	90				

1. Operating point (x, y): x - percentage output frequency, y - percentage Torque-producing current.
2. Apparent output power is calculated by assuming the output rated voltage as 440 V(-4).
3. Apparent output power is calculated by assuming the output rated voltage as 220 V(-2).
4. power losses in % of the rated apparent output power[kVA].
5. "*" mark represents the destination code. (J: Japanese / A: Asia / C: China / E: Europe)
6. "○" mark represents variations in order code. (letter(s) and/ or number(s), or blank)