



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

FRENIC-eHVAC 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
	Type ⁴	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) [%]										
FRN0002F2E-4G○	7.3	0.6%	3.5%	3.2%	3.3%	3.1%	2.9%	2.9%	2.9%	2.8%	IE 2	Fuji Electric Co., Ltd 5520, Minami Tamagaki-cho, Suzuka-city, Mie 513-8633, Japan	FRN0002F2E-4G○	1.3	0.75	1.8	50°C	50Hz, 60Hz	380 to 480	Input-output
FRN0003F2E-4G○	6.6	0.3%	3.0%	2.9%	3.3%	2.2%	2.1%	2.3%	1.8%	1.8%	IE 2		FRN0003F2E-4G○	2.5	1.1	3.4				
FRN0005F2E-4G○	7.7	0.2%	2.5%	2.2%	1.8%	1.7%	1.6%	1.5%	1.3%	1.3%	IE 2		FRN0005F2E-4G○	3.8	2.2	5				
FRN0006F2E-4G○	7.6	0.2%	2.2%	1.8%	1.6%	1.7%	1.4%	1.3%	1.3%	1.2%	IE 2		FRN0006F2E-4G○	4.8	3	6.3				
FRN0011F2E-4G○	7.2	0.1%	2.1%	1.7%	1.4%	1.4%	1.3%	1.1%	1.0%	1.0%	IE 2		FRN0011F2E-4G○	8.4	5.5	11.1				
FRN0018F2E-4G○	19.3	0.1%	2.4%	2.1%	1.5%	1.4%	1.3%	1.0%	1.0%	0.9%	IE 2		FRN0018F2E-4G○	13	7.5	17.5				
FRN0023F2E-4G○	19.6	0.1%	2.6%	1.8%	1.5%	1.5%	1.2%	1.0%	0.9%	0.8%	IE 2		FRN0023F2E-4G○	17	11	23				
FRN0031F2E-4G○	19.8	0.1%	2.3%	1.8%	1.4%	1.4%	1.1%	1.0%	0.9%	0.8%	IE 2		FRN0031F2E-4G○	23	15	31				
FRN0038F2E-4G○	21.0	0.1%	2.2%	1.7%	1.4%	1.2%	1.0%	0.9%	0.8%	0.7%	IE 2		FRN0038F2E-4G○	28	18.5	38				
FRN0045F2E-4G○	21.0	0.1%	2.0%	1.7%	1.5%	1.1%	1.0%	0.9%	0.7%	0.7%	IE 2		FRN0045F2E-4G○	34	22	45				
FRN0060F2E-4G○	20.3	0.0%	2.0%	1.7%	1.5%	1.1%	1.0%	0.9%	0.7%	0.7%	IE 2		FRN0060F2E-4G○	45	30	60				
FRN0075F2E-4G○	23.6	0.0%	2.0%	1.7%	1.5%	1.1%	1.0%	0.9%	0.7%	0.6%	IE 2		FRN0075F2E-4G○	57	37	75				
FRN0091F2E-4G○	24.2	0.0%	1.9%	1.6%	1.4%	1.1%	0.9%	0.8%	0.7%	0.6%	IE 2		FRN0091F2E-4G○	69	45	91				
FRN0112F2E-4G○	32.9	0.0%	1.7%	1.5%	1.2%	1.0%	0.9%	0.7%	0.6%	0.6%	IE 2		FRN0112F2E-4G○	85	55	112				
FRN0150F2E-4G○	20.0	0.0%	1.8%	1.5%	1.3%	0.9%	0.8%	0.7%	0.5%	0.5%	IE 2		FRN0150F2E-4G○	114	75	150				
FRN0176F2E-4G○	57.0	0.0%	1.6%	1.0%	0.8%	1.2%	0.8%	0.6%	0.7%	0.5%	IE 2		FRN0176F2E-4G○	134	90	176				
FRN0210F2E-4G○	43.0	0.0%	1.6%	1.1%	1.1%	0.9%	0.7%	0.6%	0.5%	0.4%	IE 2		FRN0210F2E-4G○	160	110	210				
FRN0253F2E-4G○	63.0	0.0%	1.6%	1.1%	1.1%	0.9%	0.6%	0.6%	0.5%	0.4%	IE 2		FRN0253F2E-4G○	192	132	253				
FRN0304F2E-4G○	80.0	0.0%	1.5%	1.0%	1.0%	0.8%	0.6%	0.6%	0.4%	0.4%	IE 2		FRN0304F2E-4G○	231	160	304				
FRN0377F2E-4G○	81.1	0.0%	1.5%	1.0%	1.0%	0.8%	0.6%	0.5%	0.4%	0.4%	IE 2		FRN0377F2E-4G○	287	200	377				
FRN0415F2E-4G○	81.1	0.0%	1.5%	1.0%	1.0%	0.8%	0.6%	0.5%	0.4%	0.3%	IE 2	FRN0415F2E-4G○	316	220	415					
FRN0520F2E-4G○	78.7	0.0%	1.8%	1.2%	1.2%	1.0%	0.7%	0.7%	0.5%	0.4%	IE 2	FRN0520F2E-4G○	396	280	520					

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.
 3. Power losses in % of the rated apparent output power[kVA].
 4. "○" mark represents variations in order code. (letter(s) and/ or number(s), or blank)