



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

FRENIC-VG(HD) 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 ²	(5) Apparent output power ³ [kVA]	(6) Indicative motor rated power output [kW]	(7) Rated output current ¹ [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) [%]										
FRN3.7VGIS-4*○	26.0	0.4%	2.0%	1.9%	1.8%	1.5%	1.5%	1.4%	1.3%	1.3%	IE 2	Fuji Electric Co., Ltd 5520, Minami Tamagaki-cho, Suzuka-city, Mie 513-8633, Japan	FRN3.7VGIS-4*○	6.8	3.7	9.0	50°C (40°C: In case of 22 kW or lower installed side-by-side without clearance)	50Hz, 60Hz	380 to 480	Input-output
FRN5.5VGIS-4*○	26.5	0.3%	2.0%	1.8%	1.7%	1.5%	1.4%	1.3%	1.2%	1.1%	IE 2		FRN5.5VGIS-4*○	10	5.5	13.5				
FRN7.5VGIS-4*○	26.4	0.2%	2.0%	1.7%	1.6%	1.2%	1.1%	1.1%	0.9%	0.9%	IE 2		FRN7.5VGIS-4*○	14	7.5	18.5				
FRN11VGIS-4*○	31.4	0.2%	1.9%	1.6%	1.4%	1.2%	1.1%	1.0%	0.9%	0.8%	IE 2		FRN11VGIS-4*○	18	11	24.5				
FRN15VGIS-4*○	31.0	0.1%	1.9%	1.6%	1.3%	1.1%	1.0%	0.9%	0.8%	0.7%	IE 2		FRN15VGIS-4*○	24	15	32				
FRN18.5VGIS-4*○	30.4	0.1%	1.8%	1.4%	1.0%	0.9%	0.9%	0.7%	0.7%	0.7%	IE 2		FRN18.5VGIS-4*○	29	18.5	39				
FRN22VGIS-4*○	29.1	0.1%	1.8%	1.6%	1.4%	1.0%	0.9%	0.9%	0.7%	0.7%	IE 2		FRN22VGIS-4*○	34	22	45				
FRN30VGIS-4*○	32.0	0.1%	1.8%	1.6%	1.4%	1.0%	0.9%	0.9%	0.7%	0.6%	IE 2		FRN30VGIS-4*○	45	30	60				
FRN37VGIS-4*○	29.6	0.1%	1.7%	1.5%	1.3%	0.9%	0.9%	0.8%	0.7%	0.6%	IE 2		FRN37VGIS-4*○	57	37	75				
FRN45VGIS-4*○	44.2	0.1%	1.7%	1.5%	1.3%	1.0%	0.9%	0.8%	0.7%	0.7%	IE 2		FRN45VGIS-4*○	69	45	91				
FRN55VGIS-4*○	40.0	0.0%	1.5%	1.4%	1.2%	0.9%	0.8%	0.8%	0.7%	0.6%	IE 2		FRN55VGIS-4*○	85	55	112				
FRN75VGIS-4*○	25.2	0.0%	1.4%	0.7%	1.0%	0.8%	0.7%	0.6%	0.5%	0.5%	IE 2		FRN75VGIS-4*○	114	75	150				
FRN90VGIS-4*○	43.0	0.0%	1.2%	1.3%	1.2%	0.9%	0.9%	0.7%	1.3%	0.6%	IE 2		FRN90VGIS-4*○	134	90	176				
FRN110VGIS-4*○	25.2	0.0%	1.2%	0.7%	0.7%	0.6%	0.4%	0.3%	0.2%	0.2%	IE 2		FRN110VGIS-4*○	160	110	210				
FRN132VGIS-4*○	80.0	0.0%	1.0%	0.8%	0.7%	0.5%	0.4%	0.4%	0.3%	0.3%	IE 2		FRN132VGIS-4*○	192	132	253				
FRN160VGIS-4*○	79.6	0.0%	1.2%	0.9%	0.8%	0.6%	0.5%	0.4%	0.3%	0.3%	IE 2		FRN160VGIS-4*○	231	160	304				
FRN200VGIS-4*○	81.1	0.0%	1.1%	0.9%	0.8%	0.6%	0.4%	0.4%	0.3%	0.3%	IE 2		FRN200VGIS-4*○	287	200	377				
FRN220VGIS-4*○	78.7	0.0%	1.2%	0.9%	0.8%	0.6%	0.4%	0.4%	0.3%	0.3%	IE 2		FRN220VGIS-4*○	316	220	415				
FRN280VGIS-4*○	92.0	0.0%	1.2%	0.9%	0.9%	0.6%	0.4%	0.4%	0.3%	0.3%	IE 2		FRN280VGIS-4*○	396	280	520				
FRN315VGIS-4*○	94.0	0.0%	1.3%	1.0%	0.9%	0.6%	0.5%	0.4%	0.3%	0.3%	IE 2		FRN315VGIS-4*○	445	315	585				
FRN355VGIS-4*○	155.0	0.0%	1.3%	1.0%	1.2%	0.6%	0.5%	0.4%	1.3%	0.3%	IE 2		FRN355VGIS-4*○	495	355	650				
FRN400VGIS-4*○	153.0	0.0%	1.3%	1.1%	1.1%	0.6%	0.5%	0.5%	0.3%	0.3%	IE 2		FRN400VGIS-4*○	563	400	740				
FRN500VGIS-4*○	154.0	0.0%	1.2%	0.9%	0.9%	0.5%	0.4%	0.4%	0.3%	0.2%	IE 2		FRN500VGIS-4*○	731	500	960				
FRN630VGIS-4*○	153.0	0.0%	1.3%	1.0%	1.0%	0.6%	0.4%	0.4%	0.3%	0.3%	IE 2		FRN630VGIS-4*○	891	630	1170				
FRN0.75VGIS-2*○	20.8	1.1%	3.2%	3.2%	2.6%	2.5%	2.5%	2.3%	2.2%	2.1%	IE2		FRN0.75VGIS-2*○	1.9	0.75	5				
FRN1.5VGIS-2*○	21.1	0.7%	2.7%	2.5%	2.2%	2.0%	1.9%	1.8%	1.7%	1.6%	IE2		FRN1.5VGIS-2*○	3.0	1.5	8				
FRN2.2VGIS-2*○	20.9	0.5%	2.6%	2.3%	2.0%	1.9%	1.7%	1.6%	1.5%	1.4%	IE2		FRN2.2VGIS-2*○	4.1	2.2	11				
FRN3.7VGIS-2*○	20.9	0.3%	2.6%	2.1%	1.8%	1.4%	1.5%	1.4%	1.2%	1.1%	IE2		FRN3.7VGIS-2*○	6.8	3.7	18				
FRN5.5VGIS-2*○	20.7	0.2%	2.7%	2.2%	1.8%	1.5%	1.3%	1.1%	0.9%	0.9%	IE2		FRN5.5VGIS-2*○	10	5.5	27				
FRN7.5VGIS-2*○	21.9	0.2%	2.5%	2.0%	1.7%	1.4%	1.2%	1.0%	0.9%	0.8%	IE2		FRN7.5VGIS-2*○	14	7.5	37				
FRN11VGIS-2*○	21.4	0.1%	2.5%	2.0%	1.7%	1.4%	1.2%	1.0%	0.9%	0.8%	IE2		FRN11VGIS-2*○	18	11	49				
FRN15VGIS-2*○	22.0	0.1%	2.4%	2.0%	1.7%	1.3%	1.1%	1.0%	0.8%	0.7%	IE2		FRN15VGIS-2*○	24	15	63				
FRN18.5VGIS-2*○	21.1	0.1%	2.5%	2.0%	1.7%	1.3%	1.1%	1.0%	0.8%	0.7%	IE2		FRN18.5VGIS-2*○	28	19	76				
FRN22VGIS-2*○	22.3	0.1%	2.5%	2.1%	1.8%	1.3%	1.1%	1.0%	0.7%	0.7%	IE2		FRN22VGIS-2*○	34	22	90				
FRN30VGIS-2*○	26.1	0.1%	2.4%	2.0%	1.7%	1.2%	1.1%	1.0%	0.8%	0.7%	IE2		FRN30VGIS-2*○	45	30	119				
FRN37VGIS-2*○	33.9	0.1%	2.0%	1.8%	1.8%	1.1%	1.0%	1.0%	0.7%	0.7%	IE2		FRN37VGIS-2*○	55	37	146				
FRN45VGIS-2*○	35.6	0.1%	2.0%	1.8%	1.6%	1.6%	1.0%	0.9%	0.7%	0.7%	IE2	FRN45VGIS-2*○	68	45	180					
FRN55VGIS-2*○	38.0	0.0%	2.1%	1.9%	1.8%	1.1%	1.2%	1.1%	0.9%	0.8%	IE2	FRN55VGIS-2*○	81	55	215					
FRN75VGIS-2*○	52.0	0.0%	1.6%	1.3%	1.0%	0.8%	0.7%	0.6%	0.5%	0.5%	IE2	FRN75VGIS-2*○	107	75	283					
FRN90VGIS-2*○	50.0	0.0%	1.7%	1.5%	1.3%	0.9%	0.8%	0.7%	0.6%	0.5%	IE2	FRN90VGIS-2*○	131	90	346					

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 / E: English / C: Chinese)
 6. "○" mark represents variations in order code. (letter(s) and/ or number(s), or blank)



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

FRENIC-VG(MD) 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) [%]										
FRN90VG1S-4*○	43.0	0.0%	1.1%	0.8%	0.7%	1.1%	0.7%	0.6%	0.7%	0.5%	IE 2	Fuji Electric Co., Ltd 5520, Minami Tamagaki-cho, Suzuka-city, Mie 513-8633, Japan	FRN90VG1S-4*○	160	110	210	50°C	50Hz, 60Hz	50Hz:380 to 440 60Hz:380 to 480	Input-output
FRN110VG1S-4*○	25.2	0.0%	1.1%	0.6%	0.3%	0.7%	0.4%	0.2%	0.3%	0.2%	IE 2		FRN110VG1S-4*○	192	132	253				
FRN132VG1S-4*○	80.0	0.0%	0.9%	0.5%	0.3%	0.7%	0.4%	0.3%	0.3%	0.2%	IE 2		FRN132VG1S-4*○	231	160	304				
FRN160VG1S-4*○	79.6	0.0%	1.0%	0.6%	0.3%	0.8%	0.4%	0.3%	0.4%	0.2%	IE 2		FRN160VG1S-4*○	287	200	377				
FRN200VG1S-4*○	81.1	0.0%	1.0%	0.5%	0.3%	0.8%	0.4%	0.3%	0.4%	0.2%	IE 2		FRN200VG1S-4*○	316	220	415				
FRN220VG1S-4*○	78.7	0.0%	1.1%	0.6%	0.3%	0.9%	0.4%	0.3%	0.4%	0.2%	IE 2		FRN220VG1S-4*○	356	250	468				
FRN280VG1S-4*○	92.0	0.0%	1.1%	0.5%	0.3%	0.9%	0.4%	0.3%	0.4%	0.2%	IE 2		FRN280VG1S-4*○	445	315	585				
FRN315VG1S-4*○	94.0	0.0%	1.2%	0.6%	0.3%	0.9%	0.4%	0.3%	0.4%	0.3%	IE 2		FRN315VG1S-4*○	495	355	650				
FRN355VG1S-4*○	155.0	0.0%	1.1%	0.6%	0.3%	1.0%	0.4%	0.3%	0.4%	0.3%	IE 2		FRN355VG1S-4*○	563	400	740				
FRN400VG1S-4*○	153.0	0.0%	1.2%	0.6%	0.3%	1.0%	0.5%	0.3%	0.4%	0.3%	IE 2		FRN400VG1S-4*○	640	450	840				

1. Operating point (x, y): x - percentage output frequency, y - percentage Torque-producing current.
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3. power losses in % of the rated apparent output power[kVA].
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FRENIC-VG(LD)

Issued on 29th Jun 2021



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

FRENIC-VG(LD) 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) [%]										
FRN30VG1S-4*○	32.0	0.1%	2.0%	1.7%	1.5%	1.1%	1.0%	0.9%	0.7%	0.6%	IE 2	Fuji Electric Co., Ltd 5520, Minami Tamagaki-cho, Suzuka-city, Mie 513-8633, Japan	FRN30VG1S-4*○	57	37	75	50°C	50Hz, 60Hz	380 to 480	Input-output
FRN37VG1S-4*○	29.6	0.0%	2.0%	1.7%	1.4%	1.1%	1.0%	0.9%	0.7%	0.7%	IE 2		FRN37VG1S-4*○	69	45	91				
FRN45VG1S-4*○	44.2	0.1%	1.9%	1.6%	1.4%	1.1%	1.0%	0.8%	0.7%	0.7%	IE 2		FRN45VG1S-4*○	85	55	112				
FRN55VG1S-4*○	40.0	0.0%	1.8%	1.6%	1.3%	0.9%	0.9%	0.8%	0.6%	0.6%	IE 2		FRN55VG1S-4*○	114	75	150				
FRN75VG1S-4*○	25.2	0.0%	1.7%	0.8%	0.6%	1.2%	0.6%	0.5%	0.6%	0.4%	IE 2		FRN75VG1S-4*○	134	90	176				
FRN90VG1S-4*○	43.0	0.0%	1.1%	0.8%	0.7%	1.1%	0.7%	0.6%	0.7%	0.5%	IE 2		FRN90VG1S-4*○	160	110	210				
FRN110VG1S-4*○	25.2	0.0%	1.1%	0.6%	0.3%	0.7%	0.4%	0.2%	0.3%	0.2%	IE 2		FRN110VG1S-4*○	192	132	253				
FRN132VG1S-4*○	80.0	0.0%	0.9%	0.5%	0.3%	0.7%	0.4%	0.3%	0.3%	0.2%	IE 2		FRN132VG1S-4*○	231	160	304				
FRN160VG1S-4*○	79.6	0.0%	1.0%	0.6%	0.3%	0.8%	0.4%	0.3%	0.4%	0.2%	IE 2		FRN160VG1S-4*○	287	200	377				
FRN200VG1S-4*○	81.1	0.0%	1.0%	0.5%	0.3%	0.8%	0.4%	0.3%	0.4%	0.2%	IE 2		FRN200VG1S-4*○	316	220	415				
FRN220VG1S-4*○	78.7	0.0%	1.1%	0.5%	0.3%	0.8%	0.4%	0.2%	0.3%	0.2%	IE 2		FRN220VG1S-4*○	396	280	520				
FRN280VG1S-4*○	92.0	0.0%	1.0%	0.5%	0.3%	0.8%	0.4%	0.2%	0.4%	0.2%	IE 2		FRN280VG1S-4*○	495	355	650				
FRN315VG1S-4*○	94.0	0.0%	1.1%	0.5%	0.3%	0.9%	0.4%	0.2%	0.4%	0.2%	IE 2		FRN315VG1S-4*○	563	400	740				
FRN355VG1S-4*○	155.0	0.0%	1.0%	0.5%	0.3%	0.9%	0.4%	0.2%	0.4%	0.2%	IE 2		FRN355VG1S-4*○	640	450	840				
FRN400VG1S-4*○	153.0	0.0%	1.1%	0.5%	0.3%	0.9%	0.4%	0.3%	0.4%	0.2%	IE 2		FRN400VG1S-4*○	731	500	960				
FRN500VG1S-4*○	154.0	0.0%	1.0%	0.5%	0.3%	0.8%	0.4%	0.2%	0.3%	0.2%	IE 2		FRN500VG1S-4*○	891	630	1170				
FRN630VG1S-4*○	153.0	0.0%	1.2%	0.5%	0.3%	1.0%	0.4%	0.2%	0.4%	0.2%	IE 2		FRN630VG1S-4*○	1044	710	1370				
FRN30VG1S-2*○	26.1	0.0%	2.7%	2.2%	1.8%	1.4%	1.2%	1.0%	0.8%	0.7%	IE 2		FRN30VG1S-2*○	55	37	146				
FRN37VG1S-2*○	33.9	0.0%	2.3%	2.0%	1.9%	1.3%	1.2%	1.1%	0.8%	0.8%	IE 2		FRN37VG1S-2*○	68	45	180				
FRN45VG1S-2*○	35.6	0.0%	1.9%	2.0%	1.7%	1.5%	1.1%	1.0%	0.7%	0.7%	IE 2		FRN45VG1S-2*○	81	55	215				
FRN55VG1S-2*○	38.0	0.0%	1.7%	0.9%	0.9%	1.5%	0.9%	0.7%	0.9%	0.7%	IE 2		FRN55VG1S-2*○	107	75	283				
FRN75VG1S-2*○	52.0	0.0%	1.4%	0.9%	0.6%	1.3%	0.7%	0.5%	0.7%	0.5%	IE 2		FRN75VG1S-2*○	131	90	346				
FRN90VG1S-2*○	50.0	0.0%	1.6%	0.8%	0.7%	1.3%	0.7%	0.5%	0.6%	0.5%	IE 2		FRN90VG1S-2*○	158	110	415				

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