

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

Doesa(HDD)	(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) Apparent output power <sup>2</sup> [kVA]	(6) Indicative motor rated power output [kW]	(7) Rated output current <sup>1</sup> [A]	(8) Max. operating temperature [°C]	(9) Rated supply frequency [Hz]	(10) Rated supply voltage [V]	Power loss measurement method
	Type	Standby [W]	Standby [%]	Partial load <sup>1</sup> (90, 100) [%]	Partial load <sup>1</sup> (50, 100) [%]	Partial load <sup>1</sup> (0, 100) [%]	Partial load <sup>1</sup> (90, 50) [%]	Partial load <sup>1</sup> (50, 50) [%]	Partial load <sup>1</sup> (0, 50) [%]	Partial load <sup>1</sup> (50, 25) [%]										
VF1A-G02AIS4	7.3	0.7%	3.1%	3.0%	2.8%	2.8%	2.7%	2.7%	2.7%	2.7%	IE 2	IDEC CORPORATION 2-6-64, Nishimiyahara, Yodogawa-ku, Osaka 532-0004, Japan	VF1A-G02AIS4	1.1	0.4	1.5	50°C	50Hz, 60Hz	380 to 480	Input-output
VF1A-G04AIS4	6.6	0.3%	2.3%	2.1%	2.1%	1.8%	1.8%	1.8%	1.6%	1.7%	IE 2		VF1A-G04AIS4	1.9	0.75	2.5				
VF1A-G05ASS4	7.7	0.2%	2.1%	1.9%	1.8%	1.6%	1.5%	1.5%	1.4%	1.3%	IE 2		VF1A-G05ASS4	3.2	1.5	4.2				
VF1A-G06A9S4	7.6	0.2%	1.9%	1.7%	1.6%	1.5%	1.4%	1.3%	1.2%	1.2%	IE 2		VF1A-G06A9S4	4.2	2.2	5.5				
VF1A-G12A0S4	7.2	0.1%	1.8%	1.5%	1.4%	1.2%	1.2%	1.1%	1.0%	1.0%	IE 2		VF1A-G12A0S4	6.9	3.7	9				
VF1A-G21ASS4	19.3	0.2%	1.9%	1.7%	1.4%	1.2%	1.1%	1.1%	0.9%	0.9%	IE 2		VF1A-G21ASS4	9.9	5.5	13				
VF1A-G28ASS4	19.6	0.1%	1.8%	1.5%	1.3%	1.1%	1.0%	0.9%	0.8%	0.8%	IE 2		VF1A-G28ASS4	14	7.5	18				
VF1A-G37A0S4	19.8	0.1%	1.9%	1.5%	1.3%	1.1%	1.0%	0.9%	0.8%	0.7%	IE 2		VF1A-G37A0S4	18	11	24				
VF1A-G44A0S4	21.0	0.1%	1.8%	1.5%	1.3%	1.0%	0.9%	0.8%	0.7%	0.6%	IE 2		VF1A-G44A0S4	23	15	30				
VF1A-G59A0S4	21.0	0.1%	1.7%	1.5%	1.4%	1.0%	0.9%	0.8%	0.7%	0.6%	IE 2		VF1A-G59A0S4	30	18.5	39				
VF1A-G72A0S4	20.3	0.1%	1.7%	1.5%	1.4%	1.0%	0.9%	0.9%	0.7%	0.6%	IE 2		VF1A-G72A0S4	34	22	45				
VF1A-G85A0S4	23.6	0.1%	1.7%	1.5%	1.4%	0.9%	0.9%	0.8%	0.7%	0.6%	IE 2		VF1A-G85A0S4	46	30	60				
VF1A-G105AS4	24.2	0.0%	1.6%	1.4%	1.3%	0.9%	0.8%	0.8%	0.6%	0.6%	IE 2		VF1A-G105AS4	57	37	75				
VF1A-G139AS4	32.9	0.0%	1.5%	1.4%	1.2%	0.9%	0.8%	0.7%	0.6%	0.5%	IE 2		VF1A-G139AS4	69	45	91				

Doesa(HND)	(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) Apparent output power <sup>2</sup> [kVA]	(6) Indicative motor rated power output [kW]	(7) Rated output current <sup>1</sup> [A]	(8) Max. operating temperature [°C]	(9) Rated supply frequency [Hz]	(10) Rated supply voltage [V]	Power loss measurement method
	Type	Standby [W]	Standby [%]	Partial load <sup>1</sup> (90, 100) [%]	Partial load <sup>1</sup> (50, 100) [%]	Partial load <sup>1</sup> (0, 100) [%]	Partial load <sup>1</sup> (90, 50) [%]	Partial load <sup>1</sup> (50, 50) [%]	Partial load <sup>1</sup> (0, 50) [%]	Partial load <sup>1</sup> (50, 25) [%]										
VF1A-G02AIS4	7.3	0.5%	2.7%	2.6%	2.6%	2.3%	2.3%	2.4%	2.3%	2.4%	IE 2	IDEC CORPORATION 2-6-64, Nishimiyahara, Yodogawa-ku, Osaka 532-0004, Japan	VF1A-G02AIS4	1.4	0.75	1.8	50°C	50Hz, 60Hz	380 to 480	Input-output
VF1A-G04AIS4	6.6	0.3%	2.0%	2.0%	1.9%	1.6%	1.5%	1.5%	1.5%	1.4%	IE 2		VF1A-G04AIS4	2.6	1.1	3.4				
VF1A-G05ASS4	7.7	0.2%	2.0%	1.8%	1.7%	1.5%	1.4%	1.4%	1.2%	1.2%	IE 2		VF1A-G05ASS4	3.8	2.2	5				
VF1A-G06A9S4	7.6	0.2%	1.8%	1.6%	1.6%	1.5%	1.4%	1.3%	1.3%	1.1%	IE 2		VF1A-G06A9S4	4.8	3	6.3				
VF1A-G12A0S4	7.2	0.1%	1.9%	1.6%	1.4%	1.3%	1.1%	1.1%	0.9%	0.9%	IE 2		VF1A-G12A0S4	8.5	5.5	11.1				
VF1A-G21ASS4	19.3	0.1%	1.9%	1.7%	1.5%	1.2%	1.1%	1.0%	0.8%	0.8%	IE 2		VF1A-G21ASS4	13	7.5	17.5				
VF1A-G28ASS4	19.6	0.1%	1.8%	1.5%	1.3%	1.1%	1.0%	0.9%	0.8%	0.7%	IE 2		VF1A-G28ASS4	18	11	23				
VF1A-G37A0S4	19.8	0.1%	1.9%	1.6%	1.3%	1.1%	0.9%	0.8%	0.7%	0.7%	IE 2		VF1A-G37A0S4	24	15	31				
VF1A-G44A0S4	21.0	0.1%	1.9%	1.5%	1.3%	1.0%	0.9%	0.8%	0.7%	0.6%	IE 2		VF1A-G44A0S4	29	18.5	38				
VF1A-G59A0S4	21.0	0.1%	1.8%	1.4%	1.3%	1.0%	0.9%	0.9%	0.7%	0.7%	IE 2		VF1A-G59A0S4	34	22	45				
VF1A-G72A0S4	20.3	0.0%	1.7%	1.5%	1.3%	0.9%	0.8%	0.8%	0.6%	0.6%	IE 2		VF1A-G72A0S4	46	30	60				
VF1A-G85A0S4	23.6	0.0%	1.5%	1.2%	1.1%	0.8%	0.7%	0.7%	0.5%	0.5%	IE 2		VF1A-G85A0S4	57	37	75				
VF1A-G105AS4	24.2	0.0%	1.5%	1.2%	1.1%	0.8%	0.7%	0.7%	0.5%	0.5%	IE 2		VF1A-G105AS4	69	45	91				
VF1A-G139AS4	32.9	0.0%	1.4%	1.2%	1.1%	0.7%	0.7%	0.6%	0.5%	0.5%	IE 2		VF1A-G139AS4	85	55	112				

1. Operating point (x, y): x - percentage output frequency, y - percentage Torque-producing current.

2. power losses in % of the rated apparent output power[kVA].

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	Type	Standby [W]	Standby [%]	Partial load <sup>1</sup> (90, 100) [%]	Partial load <sup>1</sup> (50, 100) [%]	Partial load <sup>1</sup> (0, 100) [%]	Partial load <sup>1</sup> (90, 50) [%]	Partial load <sup>1</sup> (50, 50) [%]	Partial load <sup>1</sup> (0, 50) [%]	Partial load <sup>1</sup> (50, 25) [%]										
VF1A-G02AIS4	7.3	0.5%	3.3%	3.0%	3.1%	2.9%	2.7%	2.7%	2.7%	2.6%	IE 2	IDEC CORPORATION 2-6-64, Nishimiyahara, Yodogawa-ku, Osaka 532-0004, Japan	VF1A-G02AIS4	1.4	0.8	1.8	50°C	50Hz, 60Hz	380 to 480	Input-output
VF1A-G04AIS4	6.6	0.3%	2.9%	2.8%	3.1%	2.1%	2.0%	2.2%	1.7%	1.8%	IE 2		VF1A-G04AIS4	2.6	1.1	3.4				
VF1A-G05ASS4	7.7	0.2%	2.5%	2.2%	1.8%	1.7%	1.6%	1.5%	1.3%	1.3%	IE 2		VF1A-G05ASS4	3.8	2.2	5				
VF1A-G06A9S4	7.6	0.2%	2.2%	1.8%	1.6%	1.7%	1.4%	1.3%	1.3%	1.2%	IE 2		VF1A-G06A9S4	4.8	3	6.3				
VF1A-G12A0S4	7.2	0.1%	2.1%	1.7%	1.3%	1.4%	1.2%	1.1%	1.0%	1.0%	IE 2		VF1A-G12A0S4	8.5	5.5	11.1				
VF1A-G21ASS4	19.3	0.1%	2.4%	2.1%	1.5%	1.4%	1.3%	1.0%	1.0%	0.9%	IE 2		VF1A-G21ASS4	13	7.5	17.5				
VF1A-G28ASS4	19.6	0.1%	2.4%	1.7%	1.4%	1.4%	1.1%	1.0%	0.9%	0.8%	IE 2		VF1A-G28ASS4	18	11	23				
VF1A-G37A0S4	19.8	0.1%	2.2%	1.7%	1.4%	1.3%	1.1%	0.9%	0.8%	0.7%	IE 2		VF1A-G37A0S4	24	15	31				
VF1A-G44A0S4	21.0	0.1%	2.1%	1.6%	1.4%	1.2%	1.0%	0.9%	0.8%	0.7%	IE 2		VF1A-G44A0S4	29	18.5	38				
VF1A-G59A0S4	21.0	0.1%	2.0%	1.7%	1.5%	1.1%	1.0%	0.9%	0.7%	0.7%	IE 2		VF1A-G59A0S4	34	22	45				
VF1A-G72A0S4	20.3	0.0%	1.9%	1.7%	1.4%	1.1%	1.0%	0.9%	0.7%	0.7%	IE 2		VF1A-G72A0S4	46	30	60				
VF1A-G85A0S4	23.6	0.0%	2.0%	1.7%	1.5%	1.1%	1.0%	0.9%	0.7%	0.6%	IE 2		VF1A-G85A0S4	57	37	75				
VF1A-G105AS4	24.2	0.0%	1.9%	1.6%	1.4%	1.1%	0.9%	0.8%	0.7%	0.6%	IE 2		VF1A-G105AS4	69	45	91				
VF1A-G139AS4	32.9	0.0%	1.7%	1.5%	1.2%	1.0%	0.9%	0.7%	0.6%	0.6%	IE 2		VF1A-G139AS4	85	55	112				

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	Type	Standby [W]	Standby [%]	Partial load <sup>1</sup> (90, 100) [%]	Partial load <sup>1</sup> (50, 100) [%]	Partial load <sup>1</sup> (0, 100) [%]	Partial load <sup>1</sup> (90, 50) [%]	Partial load <sup>1</sup> (50, 50) [%]	Partial load <sup>1</sup> (0, 50) [%]	Partial load <sup>1</sup> (50, 25) [%]										
VF1A-G02AIS4	7.3	0.5%	3.2%	2.9%	3.0%	2.8%	2.5%	2.6%	2.5%	2.6%	IE 2	IDEC CORPORATION 2-6-64, Nishimiyahara, Yodogawa-ku, Osaka 532-0004, Japan	VF1A-G02AIS4	1.6	0.8	2.1	50°C	50Hz, 60Hz	380 to 480	Input-output
VF1A-G04AIS4	6.6	0.2%	2.9%	2.8%	3.2%	2.1%	2.0%	2.2%	1.7%	1.8%	IE 2		VF1A-G04AIS4	3.1	1.5	4.1				
VF1A-G05ASS4	7.7	0.2%	2.5%	2.1%	1.7%	1.7%	1.6%	1.4%	1.3%	1.3%	IE 2		VF1A-G05ASS4	4.2	2.2	5.5				
VF1A-G06A9S4	7.6	0.1%	2.1%	1.8%	1.5%	1.6%	1.4%	1.3%	1.2%	1.1%	IE 2		VF1A-G06A9S4	5.3	3	6.9				
VF1A-G12A0S4	7.2	0.1%	2.1%	1.7%	1.3%	1.4%	1.2%	1.1%	1.0%	0.9%	IE 2		VF1A-G12A0S4	9.1	5.5	12				
VF1A-G21ASS4	19.3	0.1%	2.4%	2.1%	1.4%	1.4%	1.3%	1.0%	1.0%	0.8%	IE 2		VF1A-G21ASS4	16	11	21.5				
VF1A-G28ASS4	19.6	0.1%	2.5%	1.7%	1.4%	1.4%	1.1%	0.9%	0.9%	0.7%	IE 2		VF1A-G28ASS4	22	15	28.5				
VF1A-G37A0S4	19.8	0.1%	2.3%	1.7%	1.4%	1.3%	1.1%	0.9%	0.8%	0.7%	IE 2		VF1A-G37A0S4	28	18.5	37				
VF1A-G44A0S4	21.0	0.1%	2.1%	1.6%	1.3%	1.2%	1.0%	0.8%	0.7%	0.7%	IE 2		VF1A-G44A0S4	34	22	44				
VF1A-G59A0S4	21.0	0.0%	2.0%	1.7%	1.5%	1.2%	1.0%	0.9%	0.8%	0.7%	IE 2		VF1A-G59A0S4	45	30	59				
VF1A-G72A0S4	20.3	0.0%	1.9%	1.7%	1.4%	1.1%	1.0%	0.9%	0.7%	0.7%	IE 2		VF1A-G72A0S4	55	37	72				
VF1A-G85A0S4	23.6	0.0%	2.0%	1.7%	1.5%	1.1%	1.0%	0.9%	0.7%	0.6%	IE 2		VF1A-G85A0S4	65	45	85				
VF1A-G105AS4	24.2	0.0%	1.9%	1.6%	1.4%	1.0%	0.9%	0.8%	0.6%	0.6%	IE 2		VF1A-G105AS4	80	55	105				
VF1A-G139AS4	32.9	0.0%	1.8%	1.6%	1.2%	1.0%	0.9%	0.7%	0.6%	0.5%	IE 2		VF1A-G139AS4	106	75	139				

1. Operating point (x, y): x - percentage output frequency, y - percentage Torque-producing current.

2. power losses in % of the rated apparent output power[kVA].