



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

(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
FRENIC-MEGA(HD) Series	Type ^{5, 6, 7}	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) [%]										
FRN0.4G1#-4*○	9.3	0.8%	3.3%	3.2%	3.3%	3.0%	3.0%	3.0%	2.9%	2.9%	IE 2	Fuji Electric Co., Ltd 5520, Minami Tamagaki-cho, Suzuka-city, Mie 513-8633, Japan	FRN0.4G1#-4*○	1.1	0.4	1.5	50°C (40°C: In case of 22 kW or lower installed side-by-side without clearance)	50Hz, 60Hz	380 to 480	Input-output	
FRN0.75G1#-4*○	9.7	0.5%	2.6%	2.4%	2.3%	2.3%	2.1%	2.1%	2.1%	2.0%	IE 2		FRN0.75G1#-4*○	1.9	0.75	2.5					
FRN1.5G1#-4*○	11.8	0.4%	2.3%	2.1%	2.1%	1.7%	1.6%	1.7%	1.5%	1.5%	IE 2		FRN1.5G1#-4*○	2.8	1.5	4					
FRN2.2G1#-4*○	12.5	0.3%	2.2%	1.9%	1.8%	1.6%	1.5%	1.5%	1.3%	1.3%	IE 2		FRN2.2G1#-4*○	4.1	2.2	5.5					
FRN3.74.0G1#-4*○	11.9	0.2%	2.0%	1.7%	1.5%	1.5%	1.4%	1.3%	1.2%	1.1%	IE 2		FRN3.7G1#-4*○	6.8	3.7	9					
FRN5.5G1#-4*○	16.5	0.2%	1.9%	1.6%	1.4%	1.4%	1.2%	1.2%	1.1%	1.0%	IE 2		FRN5.5G1#-4*○	10	5.5	13.5					
FRN7.5G1#-4*○	17.0	0.1%	1.9%	1.6%	1.4%	1.1%	1.0%	1.0%	0.8%	0.8%	IE 2		FRN7.5G1#-4*○	14	7.5	18.5					
FRN11G1#-4*○	17.1	0.1%	1.8%	1.5%	1.4%	1.1%	1.0%	0.9%	0.8%	0.7%	IE 2		FRN11G1#-4*○	18	11	24.5					
FRN15G1#-4*○	20.9	0.1%	1.8%	1.6%	1.4%	1.1%	1.0%	0.9%	0.7%	0.7%	IE 2		FRN15G1#-4*○	24	15	32					
FRN18.5G1#-4*○	21.6	0.1%	1.8%	1.5%	1.4%	1.1%	0.9%	0.9%	0.7%	0.7%	IE 2		FRN18.5G1#-4*○	29	18.5	39					
FRN22G1#-4*○	20.3	0.1%	1.8%	1.5%	1.3%	1.0%	0.9%	0.8%	0.7%	0.7%	IE 2		FRN22G1#-4*○	34	22	45					
FRN30G1#-4*○	26.7	0.1%	1.8%	1.6%	1.4%	1.0%	0.9%	0.8%	0.7%	0.6%	IE 2		FRN30G1#-4*○	45	30	60					
FRN37G1#-4*○	25.3	0.0%	1.7%	1.5%	1.3%	1.0%	0.9%	0.8%	0.6%	0.6%	IE 2		FRN37G1#-4*○	57	37	75					
FRN45G1#-4*○	41.1	0.1%	1.7%	1.5%	1.3%	1.0%	0.9%	0.9%	0.7%	0.7%	IE 2		FRN45G1#-4*○	69	45	91					
FRN55G1#-4*○	30.0	0.0%	1.6%	1.4%	1.2%	0.9%	0.8%	0.7%	0.6%	0.6%	IE 2		FRN55G1#-4*○	85	55	112					
FRN75G1#-4*○	25.2	0.0%	1.4%	1.0%	0.8%	0.7%	0.6%	0.5%	0.5%	0.5%	IE 2		FRN75G1#-4*○	114	75	150					
FRN90G1#-4*○	43.0	0.0%	1.2%	1.3%	1.2%	0.9%	0.9%	0.7%	0.7%	0.6%	IE 2		FRN90G1#-4*○	134	90	176					
FRN110G1#-4*○	25.2	0.0%	1.2%	0.7%	0.7%	0.6%	0.4%	0.3%	0.2%	0.2%	IE 2		FRN110G1#-4*○	160	110	210					
FRN132G1#-4*○	80.0	0.0%	1.0%	0.8%	0.7%	0.5%	0.4%	0.4%	0.3%	0.3%	IE 2		FRN132G1#-4*○	192	132	253					
FRN160G1#-4*○	79.6	0.0%	1.2%	0.8%	0.8%	0.6%	0.5%	0.4%	0.3%	0.3%	IE 2		FRN160G1#-4*○	231	160	304					
FRN200G1#-4*○	79.6	0.0%	0.9%	0.7%	0.7%	0.5%	0.4%	0.3%	0.3%	0.2%	IE 2		FRN200G1#-4*○	287	200	377					
FRN220G1#-4*○	78.7	0.0%	1.2%	0.9%	0.8%	0.6%	0.4%	0.4%	0.3%	0.3%	IE 2		FRN220G1#-4*○	316	220	415					
FRN280G1#-4*○	92.0	0.0%	1.2%	0.9%	0.9%	0.6%	0.4%	0.4%	0.3%	0.3%	IE 2		FRN280G1#-4*○	396	280	520					
FRN315G1#-4*○	94.0	0.0%	1.3%	1.0%	0.9%	0.6%	0.5%	0.4%	0.3%	0.3%	IE 2		FRN315G1#-4*○	445	315	585					
FRN355G1#-4*○	155.0	0.0%	1.3%	1.0%	1.2%	0.6%	0.5%	0.4%	0.3%	0.3%	IE 2		FRN355G1#-4*○	495	355	650					
FRN400G1#-4*○	153.0	0.0%	1.3%	1.1%	1.1%	0.6%	0.5%	0.5%	0.3%	0.3%	IE 2		FRN400G1#-4*○	563	400	740					
FRN500G1#-4*○	154.0	0.0%	1.2%	0.9%	0.9%	0.5%	0.4%	0.4%	0.3%	0.2%	IE 2		FRN500G1#-4*○	731	500	960					
FRN630G1#-4*○	153.0	0.0%	1.2%	0.9%	1.0%	0.6%	0.4%	0.4%	0.3%	0.3%	IE 2		FRN630G1#-4*○	891	630	1170					
FRN0.4G1#-2*○	7.8	0.7%	3.0%	2.7%	2.5%	2.5%	2.3%	2.1%	2.2%	2.1%	IE 2		FRN0.4G1#-2*○	1.1	0.4	3					
FRN0.75G1#-2*○	7.8	0.4%	2.5%	2.2%	2.1%	2.0%	1.6%	1.5%	1.4%	1.3%	IE 2		FRN0.75G1#-2*○	1.9	0.75	5					
FRN1.5G1#-2*○	9.1	0.3%	2.4%	2.1%	1.8%	1.9%	1.5%	1.4%	1.2%	1.2%	IE 2	FRN1.5G1#-2*○	3	1.5	8						
FRN2.2G1#-2*○	9.0	0.2%	2.3%	2.0%	1.9%	1.6%	1.5%	1.4%	1.2%	1.1%	IE 2	FRN2.2G1#-2*○	4.2	2.2	11						
FRN3.7G1#-2*○	9.2	0.1%	2.4%	2.0%	1.7%	1.5%	1.3%	1.2%	1.1%	1.0%	IE 2	FRN3.7G1#-2*○	6.8	3.7	18						
FRN5.5G1#-2*○	13.0	0.1%	2.6%	2.1%	1.7%	1.7%	1.2%	1.0%	0.9%	0.8%	IE 2	FRN5.5G1#-2*○	10	5.5	27						
FRN7.5G1#-2*○	13.3	0.1%	2.4%	1.9%	1.7%	1.6%	1.1%	1.0%	0.8%	0.7%	IE 2	FRN7.5G1#-2*○	14	7.5	37						
FRN11G1#-2*○	14.0	0.1%	2.4%	1.9%	1.7%	1.3%	1.1%	1.0%	0.8%	0.8%	IE 2	FRN11G1#-2*○	18	11	49						
FRN15G1#-2*○	14.7	0.1%	2.4%	1.9%	1.6%	1.3%	1.1%	0.9%	0.8%	0.7%	IE 2	FRN15G1#-2*○	24	15	63						
FRN18.5G1#-2*○	14.3	0.1%	2.6%	2.1%	1.7%	1.3%	1.1%	1.0%	0.8%	0.7%	IE 2	FRN18.5G1#-2*○	28	18.5	76						
FRN22G1#-2*○	14.2	0.0%	2.5%	2.0%	1.7%	1.3%	1.1%	0.9%	0.7%	0.7%	IE 2	FRN22G1#-2*○	34	22	90						
FRN30G1#-2*○	19.5	0.0%	2.5%	2.1%	1.8%	1.2%	1.1%	1.0%	0.8%	0.7%	IE 2	FRN30G1#-2*○	45	30	119						
FRN37G1#-2*○	27.7	0.1%	2.2%	1.8%	1.7%	1.2%	1.0%	1.0%	0.7%	0.7%	IE 2	FRN37G1#-2*○	55	37	146						
FRN45G1#-2*○	29.9	0.0%	2.0%	1.8%	1.5%	1.6%	1.0%	0.9%	0.7%	0.7%	IE 2	FRN45G1#-2*○	68	45	180						
FRN55G1#-2*○	38.0	0.0%	2.1%	1.8%	1.1%	1.2%	1.1%	0.9%	0.8%	0.8%	IE 2	FRN55G1#-2*○	81	55	215						
FRN75G1#-2*○	52.0	0.0%	1.6%	1.6%	1.3%	1.0%	0.8%	0.7%	0.6%	0.5%	IE 2	FRN75G1#-2*○	107	75	283						
FRN90G1#-2*○	50.0	0.0%	1.7%	1.5%	1.3%	0.9%	0.8%	0.7%	0.6%	0.5%	IE 2	FRN90G1#-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 enclosure code. (S: Standard type / E: EMC filter built in type / H: DC reactor built in type)
 6. "*" mark represents the destination code. (J: Japanese / A: Asia / C: China / E: Europe / T: Taiwan)
 7. "○" 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

(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 ^{5,6}	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) [%]											
FRNF50G1#-4U○	9.3	0.8%	3.0%	2.9%	3.0%	2.8%	2.7%	2.7%	2.7%	2.7%	IE2	Fuji Electric Co., Ltd 5520, Minami Tamagaki-cho, Suzuka-city, Mie 513-8633, Japan	FRNF50G1#-4U○	1.2	0.4	1.5	50°C (40°C: In case of 22 kW or lower installed side-by-side without clearance)	50Hz, 60Hz	380 to 480	Input-output	
FRN001G1#-4U○	9.7	0.5%	2.5%	2.3%	2.2%	2.1%	2.0%	2.0%	2.0%	1.9%	IE2		FRN001G1#-4U○	2	0.75	2.5					
FRN002G1#-4U○	11.8	0.4%	2.0%	1.8%	1.8%	1.5%	1.4%	1.5%	1.3%	1.3%	IE2		FRN002G1#-4U○	3.2	1.5	4					
FRN003G1#-4U○	12.5	0.3%	2.1%	1.7%	1.5%	1.4%	1.4%	1.4%	1.2%	1.2%	IE2		FRN003G1#-4U○	4.4	2.2	5.5					
FRN005G1#-4U○	11.9	0.2%	1.9%	1.6%	1.5%	1.4%	1.3%	1.2%	1.1%	1.1%	IE2		FRN005G1#-4U○	7.2	3.7	9					
FRN007G1#-4U○	16.5	0.2%	1.8%	1.5%	1.4%	1.2%	1.1%	1.1%	1.0%	0.9%	IE2		FRN007G1#-4U○	11	5.5	13.5					
FRN010G1#-4U○	16.5	0.2%	1.8%	1.5%	1.4%	1.2%	1.1%	1.1%	1.0%	0.9%	IE2		FRN010G1#-4U○	11	5.5	13.5					
FRN015G1#-4U○	17.0	0.1%	1.7%	1.5%	1.3%	1.0%	1.0%	0.9%	0.8%	0.8%	IE2		FRN015G1#-4U○	15	7.5	18.5					
FRN020G1#-4U○	17.1	0.1%	1.6%	1.4%	1.2%	1.0%	0.9%	0.8%	0.7%	0.6%	IE2		FRN020G1#-4U○	20	11	24.5					
FRN025G1#-4U○	20.9	0.1%	1.8%	1.5%	1.4%	1.0%	0.9%	0.8%	0.7%	0.6%	IE2		FRN025G1#-4U○	25	15	32					
FRN030G1#-4U○	21.6	0.1%	1.7%	1.4%	1.3%	1.0%	0.9%	0.8%	0.7%	0.7%	IE2		FRN030G1#-4U○	31	18.5	39					
FRN040G1#-4U○	20.3	0.1%	1.7%	1.4%	1.3%	1.0%	0.9%	0.8%	0.7%	0.6%	IE2		FRN040G1#-4U○	36	22	45					
FRN050G1#-4U○	26.7	0.1%	1.7%	1.5%	1.3%	0.9%	0.9%	0.8%	0.6%	0.6%	IE2		FRN050G1#-4U○	48	30	60					
FRN060G1#-4U○	25.3	0.0%	1.6%	1.4%	1.2%	0.9%	0.8%	0.7%	0.6%	0.6%	IE2		FRN060G1#-4U○	60	37	75					
FRN075G1#-4U○	41.1	0.1%	1.6%	1.4%	1.2%	1.0%	0.8%	0.8%	0.7%	0.6%	IE2		FRN075G1#-4U○	73	45	91					
FRN100G1#-4U○	30.0	0.0%	1.5%	1.3%	1.1%	0.9%	0.8%	0.7%	0.6%	0.5%	IE2		FRN100G1#-4U○	89	55	112					
FRN125G1#-4U○	25.2	0.0%	1.4%	1.0%	0.7%	0.8%	0.7%	0.6%	0.5%	0.5%	IE2		FRN125G1#-4U○	120	75	150					
FRN150G1#-4U○	43.0	0.0%	1.2%	1.3%	1.1%	0.8%	0.8%	0.7%	0.6%	0.6%	IE2		FRN150G1#-4U○	140	90	176					
FRN200G1#-4U○	25.2	0.0%	1.1%	0.7%	0.7%	0.6%	0.3%	0.3%	0.2%	0.2%	IE2		FRN200G1#-4U○	167	110	210					
FRN250G1#-4U○	80.0	0.0%	1.0%	0.7%	0.7%	0.5%	0.4%	0.4%	0.3%	0.3%	IE2		FRN250G1#-4U○	202	132	253					
FRN300G1#-4U○	79.6	0.0%	1.1%	0.8%	0.8%	0.6%	0.4%	0.4%	0.3%	0.3%	IE2		FRN300G1#-4U○	242	160	304					
FRN350G1#-4U○	81.1	0.0%	1.0%	0.8%	0.8%	0.5%	0.4%	0.4%	0.3%	0.2%	IE2		FRN350G1#-4U○	300	200	377					
FRN450G1#-4U○	78.7	0.0%	1.1%	0.9%	0.8%	0.6%	0.4%	0.4%	0.3%	0.2%	IE2		FRN450G1#-4U○	330	220	415					
FRN500G1#-4U○	92.0	0.0%	1.1%	0.9%	0.9%	0.6%	0.4%	0.4%	0.3%	0.3%	IE2		FRN500G1#-4U○	414	280	520					
FRN600G1#-4U○	94.0	0.0%	1.0%	0.9%	0.6%	0.4%	0.4%	0.3%	0.3%	0.3%	IE2		FRN600G1#-4U○	466	315	585					
FRN700G1#-4U○	155.0	0.0%	1.2%	1.0%	1.2%	0.6%	0.5%	0.4%	0.3%	0.3%	IE2		FRN700G1#-4U○	518	355	650					
FRN800G1#-4U○	153.0	0.0%	1.3%	1.0%	1.0%	0.6%	0.5%	0.4%	0.3%	0.3%	IE2		FRN800G1#-4U○	590	400	740					
FRN900G1#-4U○	154.0	0.0%	1.1%	0.9%	0.9%	0.5%	0.4%	0.4%	0.2%	0.2%	IE2		FRN900G1#-4U○	765	500	960					
FRN1000G1#-4U○	153.0	0.0%	1.2%	1.0%	1.0%	0.6%	0.4%	0.4%	0.3%	0.2%	IE2		FRN1000G1#-4U○	932	630	1170					
FRNF50G1#-2U○	7.8	0.6%	2.8%	2.3%	2.3%	2.1%	1.9%	1.9%	2.0%	1.9%	IE2		FRNF50G1#-2U○	1.2	0.4	3					
FRN001G1#-2U○	7.8	0.4%	2.4%	2.1%	2.0%	1.9%	1.5%	1.5%	1.3%	1.2%	IE2		FRN001G1#-2U○	2	0.75	5					
FRN002G1#-2U○	9.1	0.3%	2.2%	1.9%	1.7%	1.8%	1.4%	1.3%	1.1%	1.1%	IE2		FRN002G1#-2U○	3.2	1.5	8					
FRN003G1#-2U○	9.0	0.2%	2.2%	2.0%	1.8%	1.5%	1.4%	1.3%	1.1%	1.1%	IE2		FRN003G1#-2U○	4.4	2.2	11					
FRN005G1#-2U○	9.2	0.1%	2.2%	1.9%	1.6%	1.5%	1.3%	1.1%	1.0%	0.9%	IE2		FRN005G1#-2U○	7.2	3.7	18					
FRN007G1#-2U○	13.0	0.1%	2.3%	1.9%	1.6%	1.1%	0.9%	0.8%	0.7%	0.7%	IE2		FRN007G1#-2U○	11	5.5	27					
FRN010G1#-2U○	13.0	0.1%	2.3%	1.9%	1.5%	1.6%	1.1%	0.9%	0.8%	0.7%	IE2		FRN010G1#-2U○	11	5.5	27					
FRN015G1#-2U○	13.3	0.1%	2.2%	1.8%	1.5%	1.5%	1.0%	0.9%	0.7%	0.7%	IE2		FRN015G1#-2U○	15	7.5	37					
FRN020G1#-2U○	14.0	0.1%	2.1%	1.7%	1.5%	1.2%	1.0%	0.9%	0.7%	0.7%	IE2		FRN020G1#-2U○	20	11	49					
FRN025G1#-2U○	14.7	0.1%	2.3%	1.8%	1.5%	1.2%	1.0%	0.9%	0.7%	0.6%	IE2		FRN025G1#-2U○	25	15	63					
FRN030G1#-2U○	14.3	0.0%	2.4%	1.9%	1.6%	1.2%	1.0%	0.9%	0.7%	0.6%	IE2		FRN030G1#-2U○	30	18.5	76					
FRN040G1#-2U○	14.2	0.0%	2.4%	1.9%	1.6%	1.2%	1.0%	0.9%	0.7%	0.6%	IE2	FRN040G1#-2U○	36	22	90						
FRN050G1#-2U○	19.5	0.0%	2.4%	2.0%	1.7%	1.2%	1.1%	1.0%	0.8%	0.7%	IE2	FRN050G1#-2U○	47	30	119						
FRN060G1#-2U○	27.7	0.0%	2.1%	1.6%	1.7%	1.1%	1.0%	0.9%	0.7%	0.7%	IE2	FRN060G1#-2U○	58	37	146						
FRN075G1#-2U○	29.9	0.0%	1.9%	1.7%	1.4%	1.5%	0.9%	0.9%	0.7%	0.6%	IE2	FRN075G1#-2U○	72	45	180						
FRN100G1#-2U○	38.0	0.0%	1.9%	1.8%	1.7%	1.1%	1.2%	1.0%	0.8%	0.8%	IE2	FRN100G1#-2U○	86	55	215						
FRN125G1#-2U○	52.0	0.0%	1.6%	1.5%	1.3%	1.0%	0.8%	0.7%	0.6%	0.5%	IE2	FRN125G1#-2U○	113	75	283						
FRN150G1#-2U○	50.0	0.0%	1.6%	1.4%	1.2%	0.8%	0.8%	0.7%	0.6%	0.5%	IE2	FRN150G1#-2U○	138	90	346						

1. Operating point (x, y): x - percentage output frequency, y - percentage Torque-producing current.
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 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 enclosure code. (S: Standard type / E: EMC filter built in type / H: DC reactor built in type)
 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

(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
FRENIC-MEGA(MD) Series	Type ^{5,6,7}	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) [%]										
	FRN90G1#-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	FRN90G1#-4*○	160	110	210	50°C	50Hz, 60Hz	50Hz:380 to 440 60Hz:380 to 480	Input-output
	FRN110G1#-4*○	25.2	0.0%	1.1%	0.6%	0.3%	0.7%	0.4%	0.2%	0.3%	0.2%	IE 2		FRN110G1#-4*○	192	132	253				
	FRN132G1#-4*○	80.0	0.0%	0.9%	0.5%	0.3%	0.7%	0.4%	0.3%	0.3%	0.2%	IE 2		FRN132G1#-4*○	231	160	304				
	FRN160G1#-4*○	79.6	0.0%	1.0%	0.6%	0.3%	0.8%	0.4%	0.3%	0.4%	0.2%	IE 2		FRN160G1#-4*○	287	200	377				
	FRN200G1#-4*○	79.6	0.0%	1.0%	0.5%	0.3%	0.8%	0.4%	0.2%	0.3%	0.2%	IE 2		FRN200G1#-4*○	316	220	415				
	FRN220G1#-4*○	78.7	0.0%	1.1%	0.6%	0.3%	0.9%	0.4%	0.3%	0.4%	0.2%	IE 2		FRN220G1#-4*○	356	250	468				
	FRN280G1#-4*○	92.0	0.0%	1.1%	0.5%	0.3%	0.9%	0.4%	0.3%	0.4%	0.2%	IE 2		FRN280G1#-4*○	445	315	585				
	FRN315G1#-4*○	94.0	0.0%	1.2%	0.6%	0.3%	0.9%	0.4%	0.3%	0.4%	0.3%	IE 2		FRN315G1#-4*○	495	355	650				
	FRN355G1#-4*○	155.0	0.0%	1.1%	0.6%	0.3%	1.0%	0.4%	0.3%	0.4%	0.3%	IE 2		FRN355G1#-4*○	563	400	740				
	FRN400G1#-4*○	153.0	0.0%	1.2%	0.6%	0.3%	1.0%	0.5%	0.3%	0.4%	0.3%	IE 2		FRN400G1#-4*○	640	450	840				

(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
FRENIC-MEGA(MD) Series	Type ^{5,7}	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) [%]										
	FRN150G1#-4U○	43.0	0.0%	1.0%	0.7%	0.7%	1.0%	0.7%	0.6%	0.6%	0.5%	IE2	Fuji Electric Co., Ltd 5520, Minami Tamagaki-cho, Suzuka-city, Mie 513-8633, Japan	FRN150G1#-4U○	167	110	210	50°C	50Hz, 60Hz	50Hz:380 to 440 60Hz:380 to 480	Input-output
	FRN200G1#-4U○	25.2	0.0%	1.0%	0.5%	0.3%	0.7%	0.3%	0.2%	0.3%	0.2%	IE2		FRN200G1#-4U○	202	132	253				
	FRN250G1#-4U○	80.0	0.0%	0.9%	0.5%	0.3%	0.7%	0.4%	0.2%	0.3%	0.2%	IE2		FRN250G1#-4U○	242	160	304				
	FRN300G1#-4U○	79.6	0.0%	1.0%	0.5%	0.3%	0.8%	0.4%	0.3%	0.3%	0.2%	IE2		FRN300G1#-4U○	300	200	377				
	FRN350G1#-4U○	81.1	0.0%	1.0%	0.5%	0.3%	0.8%	0.4%	0.2%	0.3%	0.2%	IE2		FRN350G1#-4U○	331	220	415				
	FRN450G1#-4U○	78.7	0.0%	1.1%	0.5%	0.3%	0.8%	0.4%	0.2%	0.3%	0.2%	IE2		FRN450G1#-4U○	373	250	468				
	FRN500G1#-4U○	92.0	0.0%	1.1%	0.5%	0.3%	0.9%	0.4%	0.3%	0.4%	0.2%	IE2		FRN500G1#-4U○	466	315	585				
	FRN600G1#-4U○	94.0	0.0%	1.1%	0.5%	0.3%	0.9%	0.4%	0.3%	0.4%	0.2%	IE2		FRN600G1#-4U○	518	355	650				
	FRN700G1#-4U○	155.0	0.0%	1.0%	0.5%	0.3%	1.0%	0.4%	0.3%	0.4%	0.2%	IE2		FRN700G1#-4U○	590	400	740				
	FRN800G1#-4U○	153.0	0.0%	1.2%	0.6%	0.3%	1.0%	0.4%	0.3%	0.4%	0.3%	IE2		FRN800G1#-4U○	669	450	840				

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 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 enclosure code. (S: Standard type / E: EMC filter built in type / H: DC reactor built in type)
 6. "*" mark represents the destination code. (J: Japanese / A: Asia / C: China / E: Europe)
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Drive power loss data disclosure pursuant to COMMISSION REGULATION (EU) 2019/1781

FRENIC-MEGA(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) [%]										
FRN5.5G1#-4*○	16.5	0.1%	2.0%	1.6%	1.5%	1.2%	1.1%	1.0%	0.8%	0.8%	IE 2	Fuji Electric Co., Ltd 5520, Minami Tamagaki-cho, Suzuka-city, Mie 513-8633, Japan	FRN5.5G1#-4*○	12	7.5	16.5	50°C (40°C: In case of 22 kW or lower installed side-by-side without clearance)	50Hz, 60Hz	380 to 480	Input-output
FRN7.5G1#-4*○	17.0	0.1%	1.9%	1.6%	1.3%	1.1%	1.0%	0.9%	0.8%	0.8%	IE 2		FRN7.5G1#-4*○	17	11	23				
FRN11G1#-4*○	17.1	0.1%	1.8%	1.5%	1.4%	1.1%	1.0%	0.9%	0.7%	0.7%	IE 2		FRN11G1#-4*○	22	15	30.5				
FRN15G1#-4*○	20.9	0.1%	1.8%	1.5%	1.4%	1.1%	1.0%	0.9%	0.7%	0.7%	IE 2		FRN15G1#-4*○	28	18.5	37				
FRN18.5G1#-4*○	21.6	0.1%	1.9%	1.5%	1.4%	1.1%	1.0%	0.9%	0.7%	0.7%	IE 2		FRN18.5G1#-4*○	33	22	45				
FRN22G1#-4*○	20.3	0.0%	1.8%	1.4%	1.3%	1.1%	0.9%	0.8%	0.7%	0.6%	IE 2		FRN22G1#-4*○	45	30	60				
FRN30G1#-4*○	26.7	0.0%	1.8%	1.4%	1.4%	1.0%	0.9%	0.8%	0.7%	0.6%	IE 2		FRN30G1#-4*○	57	37	75				
FRN37G1#-4*○	25.3	0.0%	1.8%	1.5%	1.3%	1.0%	0.9%	0.8%	0.6%	0.6%	IE 2		FRN37G1#-4*○	69	45	91				
FRN45G1#-4*○	41.1	0.0%	1.7%	1.4%	1.3%	1.0%	0.9%	0.8%	0.6%	0.6%	IE 2		FRN45G1#-4*○	85	55	112				
FRN55G1#-4*○	30.0	0.0%	1.6%	1.3%	1.1%	0.9%	0.8%	0.7%	0.6%	0.5%	IE 2		FRN55G1#-4*○	114	75	150				
FRN75G1#-4*○	25.2	0.0%	1.7%	0.8%	0.6%	1.2%	0.6%	0.5%	0.6%	0.4%	IE 2		FRN75G1#-4*○	134	90	176				
FRN90G1#-4*○	43.0	0.0%	1.1%	0.8%	0.7%	1.1%	0.7%	0.6%	0.7%	0.5%	IE 2		FRN90G1#-4*○	160	110	210				
FRN110G1#-4*○	25.2	0.0%	1.1%	0.6%	0.3%	0.7%	0.4%	0.2%	0.3%	0.2%	IE 2		FRN110G1#-4*○	192	132	253				
FRN132G1#-4*○	80.0	0.0%	0.9%	0.5%	0.3%	0.7%	0.4%	0.3%	0.5%	0.2%	IE 2		FRN132G1#-4*○	231	160	304				
FRN160G1#-4*○	79.6	0.0%	1.0%	0.6%	0.3%	0.8%	0.4%	0.3%	0.4%	0.2%	IE 2		FRN160G1#-4*○	287	200	377				
FRN200G1#-4*○	79.6	0.0%	1.0%	0.5%	0.3%	0.8%	0.4%	0.2%	0.3%	0.2%	IE 2		FRN200G1#-4*○	316	220	415				
FRN220G1#-4*○	78.7	0.0%	1.1%	0.5%	0.3%	0.8%	0.4%	0.2%	0.3%	0.2%	IE 2		FRN220G1#-4*○	396	280	520				
FRN280G1#-4*○	92.0	0.0%	1.0%	0.5%	0.3%	0.8%	0.4%	0.2%	0.4%	0.2%	IE 2		FRN280G1#-4*○	495	355	650				
FRN315G1#-4*○	94.0	0.0%	1.1%	0.5%	0.3%	0.9%	0.4%	0.2%	0.4%	0.2%	IE 2		FRN315G1#-4*○	563	400	740				
FRN355G1#-4*○	155.0	0.0%	1.0%	0.5%	0.3%	0.9%	0.4%	0.2%	0.4%	0.2%	IE 2		FRN355G1#-4*○	640	450	840				
FRN400G1#-4*○	153.0	0.0%	1.1%	0.5%	0.3%	0.9%	0.4%	0.3%	0.4%	0.2%	IE 2		FRN400G1#-4*○	731	500	960				
FRN500G1#-4*○	154.0	0.0%	1.0%	0.5%	0.3%	0.8%	0.4%	0.2%	0.3%	0.2%	IE 2		FRN500G1#-4*○	891	630	1170				
FRN630G1#-4*○	153.0	0.0%	1.2%	0.5%	0.3%	1.0%	0.4%	0.2%	0.4%	0.2%	IE 2		FRN630G1#-4*○	1044	710	1370				
FRN5.5G1#-2*○	13.0	0.1%	3.5%	3.2%	2.1%	2.1%	1.7%	1.3%	1.2%	1.0%	IE2		FRN5.5G1#-2*○	11	7.5	31.8				
FRN7.5G1#-2*○	13.3	0.1%	3.3%	2.9%	2.0%	2.1%	1.6%	1.3%	1.2%	1.0%	IE2		FRN7.5G1#-2*○	16	11	46.2				
FRN11G1#-2*○	14.0	0.1%	3.3%	2.6%	2.1%	1.9%	1.5%	1.3%	1.1%	1.0%	IE2		FRN11G1#-2*○	20	15	59.4				
FRN15G1#-2*○	14.7	0.1%	3.4%	2.6%	1.9%	1.9%	1.5%	1.2%	1.1%	0.9%	IE2		FRN15G1#-2*○	25	18.5	74.8				
FRN18.5G1#-2*○	14.3	0.0%	3.2%	2.5%	1.9%	1.7%	1.4%	1.1%	0.9%	0.8%	IE2		FRN18.5G1#-2*○	30	22	88				
FRN22G1#-2*○	14.2	0.0%	3.1%	2.4%	1.8%	1.6%	1.3%	1.0%	0.9%	0.7%	IE2		FRN22G1#-2*○	43	30	115				
FRN30G1#-2*○	19.5	0.0%	2.9%	2.3%	1.9%	1.4%	1.2%	1.1%	0.8%	0.8%	IE2		FRN30G1#-2*○	55	37	146				
FRN37G1#-2*○	27.7	0.0%	2.4%	2.0%	1.7%	1.3%	1.1%	1.0%	0.8%	0.8%	IE2		FRN37G1#-2*○	68	45	180				
FRN45G1#-2*○	29.9	0.0%	1.9%	2.0%	1.6%	1.5%	1.1%	0.9%	0.7%	0.7%	IE2		FRN45G1#-2*○	81	55	215				
FRN55G1#-2*○	38.0	0.0%	1.7%	0.9%	0.9%	1.5%	0.9%	0.7%	0.9%	0.7%	IE2		FRN55G1#-2*○	107	75	283				
FRN75G1#-2*○	52.0	0.0%	1.4%	0.9%	0.6%	1.3%	0.7%	0.5%	0.7%	0.5%	IE2	FRN75G1#-2*○	131	90	346					
FRN90G1#-2*○	50.0	0.0%	1.6%	0.8%	0.7%	1.3%	0.7%	0.5%	0.6%	0.5%	IE2	FRN90G1#-2*○	158	110	415					

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

(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 ^{5,7}	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) [%]											
FRNF50G1#-4U○	9.3	0.8%	3.0%	2.9%	3.0%	2.8%	2.7%	2.7%	2.7%	2.7%	IE2	Fuji Electric Co., Ltd 5520, Minami Tamagaki-cho, Suzuka-city, Mie 513-8633, Japan	FRNF50G1#-4U○	1.2	0.4	1.5	50°C (40°C: In case of 22 kW or lower installed side-by-side without clearance)	50Hz, 60Hz	380 to 480	Input-output	
FRN001G1#-4U○	9.7	0.5%	2.5%	2.3%	2.2%	2.1%	2.0%	2.0%	2.0%	1.9%	IE2		FRN001G1#-4U○	2	0.75	2.5					
FRN002G1#-4U○	11.8	0.4%	2.0%	1.8%	1.8%	1.5%	1.4%	1.5%	1.3%	1.3%	IE2		FRN002G1#-4U○	3.2	1.5	4					
FRN003G1#-4U○	12.5	0.3%	2.1%	1.7%	1.7%	1.5%	1.4%	1.4%	1.2%	1.2%	IE2		FRN003G1#-4U○	4.4	2.2	5.5					
FRN005G1#-4U○	11.9	0.2%	1.9%	1.6%	1.5%	1.4%	1.3%	1.2%	1.1%	1.1%	IE2		FRN005G1#-4U○	7.2	3.7	9					
FRN007G1#-4U○	16.5	0.2%	1.8%	1.5%	1.4%	1.1%	1.0%	1.0%	0.8%	0.8%	IE2		FRN007G1#-4U○	11	7.5	13.5					
FRN010G1#-4U○	16.5	0.1%	1.8%	1.5%	1.4%	1.1%	1.0%	0.9%	0.8%	0.8%	IE2		FRN010G1#-4U○	13.1	7.5	16.5					
FRN015G1#-4U○	17.0	0.1%	1.8%	1.5%	1.2%	1.1%	0.9%	0.9%	0.7%	0.7%	IE2		FRN015G1#-4U○	18.3	11	23					
FRN020G1#-4U○	17.1	0.1%	1.7%	1.4%	1.3%	1.0%	0.9%	0.8%	0.7%	0.6%	IE2		FRN020G1#-4U○	24	15	30.5					
FRN025G1#-4U○	20.9	0.1%	1.8%	1.5%	1.4%	1.0%	0.9%	0.8%	0.7%	0.6%	IE2		FRN025G1#-4U○	29	18.5	37					
FRN030G1#-4U○	21.6	0.1%	1.7%	1.4%	1.3%	1.0%	0.9%	0.8%	0.7%	0.6%	IE2		FRN030G1#-4U○	36	22	45					
FRN040G1#-4U○	20.3	0.0%	1.7%	1.4%	1.0%	0.8%	0.8%	0.7%	0.6%	0.6%	IE2		FRN040G1#-4U○	48	30	60					
FRN050G1#-4U○	26.7	0.0%	1.7%	1.5%	1.3%	1.0%	0.9%	0.8%	0.6%	0.6%	IE2		FRN050G1#-4U○	60	37	75					
FRN060G1#-4U○	25.3	0.0%	1.7%	1.4%	1.2%	0.9%	0.8%	0.7%	0.6%	0.6%	IE2		FRN060G1#-4U○	73	45	91					
FRN075G1#-4U○	41.1	0.0%	1.6%	1.4%	1.2%	0.9%	0.8%	0.8%	0.6%	0.6%	IE2		FRN075G1#-4U○	89	55	112					
FRN100G1#-4U○	30.0	0.0%	1.5%	1.3%	1.1%	0.9%	0.8%	0.7%	0.6%	0.5%	IE2		FRN100G1#-4U○	120	75	150					
FRN125G1#-4U○	25.2	0.0%	1.7%	0.7%	0.5%	1.1%	0.6%	0.5%	0.5%	0.4%	IE2		FRN125G1#-4U○	140	90	176					
FRN150G1#-4U○	43.0	0.0%	1.0%	0.7%	0.7%	1.0%	0.7%	0.6%	0.6%	0.5%	IE2		FRN150G1#-4U○	167	110	210					
FRN200G1#-4U○	25.2	0.0%	1.0%	0.5%	0.3%	0.7%	0.3%	0.2%	0.3%	0.2%	IE2		FRN200G1#-4U○	202	132	253					
FRN250G1#-4U○	80.0	0.0%	0.9%	0.5%	0.3%	0.7%	0.4%	0.2%	0.3%	0.2%	IE2		FRN250G1#-4U○	242	160	304					
FRN300G1#-4U○	79.6	0.0%	1.0%	0.5%	0.3%	0.8%	0.4%	0.3%	0.3%	0.2%	IE2		FRN300G1#-4U○	300	200	377					
FRN350G1#-4U○	81.1	0.0%	1.0%	0.5%	0.3%	0.8%	0.4%	0.2%	0.3%	0.2%	IE2		FRN350G1#-4U○	331	220	415					
FRN450G1#-4U○	78.7	0.0%	1.0%	0.5%	0.3%	0.8%	0.4%	0.2%	0.3%	0.2%	IE2		FRN450G1#-4U○	414	280	520					
FRN500G1#-4U○	92.0	0.0%	1.0%	0.5%	0.3%	0.8%	0.4%	0.2%	0.3%	0.2%	IE2		FRN500G1#-4U○	518	355	650					
FRN600G1#-4U○	94.0	0.0%	1.0%	0.5%	0.3%	0.8%	0.4%	0.2%	0.3%	0.2%	IE2		FRN600G1#-4U○	590	400	740					
FRN700G1#-4U○	155.0	0.0%	0.9%	0.5%	0.3%	0.9%	0.4%	0.2%	0.3%	0.2%	IE2		FRN700G1#-4U○	669	450	840					
FRN800G1#-4U○	153.0	0.0%	1.1%	0.5%	0.3%	0.9%	0.4%	0.2%	0.4%	0.2%	IE2		FRN800G1#-4U○	765	500	960					
FRN900G1#-4U○	154.0	0.0%	1.0%	0.5%	0.3%	0.8%	0.4%	0.2%	0.3%	0.2%	IE2		FRN900G1#-4U○	932	630	1170					
FRN1000G1#-4U○	153.0	0.0%	1.1%	0.5%	0.3%	0.9%	0.4%	0.2%	0.3%	0.2%	IE2		FRN1000G1#-4U○	1092	710	1370					
FRNF50G1#-2U○	7.8	0.6%	3.8%	3.5%	3.8%	3.1%	2.8%	2.8%	2.7%	2.7%	IE2		FRNF50G1#-2U○	1.2	0.4	3					
FRN001G1#-2U○	7.8	0.4%	3.2%	3.4%	3.3%	2.6%	2.6%	2.5%	2.4%	2.4%	IE2	FRN001G1#-2U○	2	0.75	5						
FRN002G1#-2U○	9.1	0.3%	2.6%	2.4%	1.8%	2.0%	1.7%	1.4%	1.3%	1.3%	IE2	FRN002G1#-2U○	3.2	1.5	8						
FRN003G1#-2U○	9.0	0.2%	2.7%	2.3%	1.9%	1.9%	1.7%	1.5%	1.4%	1.3%	IE2	FRN003G1#-2U○	4.4	2.2	11						
FRN005G1#-2U○	9.2	0.1%	2.7%	2.2%	1.7%	1.8%	1.6%	1.3%	1.2%	1.1%	IE2	FRN005G1#-2U○	7.2	3.7	18						
FRN007G1#-2U○	13.0	0.1%	3.0%	2.6%	1.8%	1.8%	1.4%	1.1%	0.9%	0.9%	IE2	FRN007G1#-2U○	11	7.5	27						
FRN010G1#-2U○	13.0	0.1%	3.0%	2.7%	1.8%	1.8%	1.4%	1.1%	1.0%	0.8%	IE2	FRN010G1#-2U○	13	7.5	31.8						
FRN015G1#-2U○	13.3	0.1%	3.0%	2.6%	1.8%	1.8%	1.5%	1.1%	1.0%	0.9%	IE2	FRN015G1#-2U○	18	11	46.2						
FRN020G1#-2U○	14.0	0.1%	2.7%	2.2%	1.7%	1.6%	1.3%	1.1%	0.9%	0.8%	IE2	FRN020G1#-2U○	24	15	59.4						
FRN025G1#-2U○	14.7	0.0%	2.8%	2.2%	1.6%	1.6%	1.2%	1.0%	0.9%	0.7%	IE2	FRN025G1#-2U○	30	18.5	74.8						
FRN030G1#-2U○	14.3	0.0%	2.7%	2.2%	1.7%	1.4%	1.2%	1.0%	0.8%	0.7%	IE2	FRN030G1#-2U○	35	22	88						
FRN040G1#-2U○	14.2	0.0%	2.9%	2.2%	1.7%	1.4%	1.2%	1.0%	0.8%	0.7%	IE2	FRN040G1#-2U○	46	30	115						
FRN050G1#-2U○	19.5	0.0%	2.7%	2.2%	1.8%	1.4%	1.2%	1.0%	0.8%	0.7%	IE2	FRN050G1#-2U○	58	37	146						
FRN060G1#-2U○	27.7	0.0%	2.3%	1.9%	1.6%	1.2%	1.1%	1.0%	0.8%	0.7%	IE2	FRN060G1#-2U○	72	45	180						
FRN075G1#-2U○	29.9	0.0%	1.8%	1.9%	1.4%	1.0%	0.9%	0.7%	0.7%	0.7%	IE2	FRN075G1#-2U○	86	55	215						
FRN100G1#-2U○	38.0	0.0%	1.6%	0.8%	0.8%	1.4%	0.8%	0.7%	0.8%	0.6%	IE2	FRN100G1#-2U○	113	75	283						
FRN125G1#-2U○	52.0	0.0%	1.4%	0.9%	0.6%	1.2%	0.7%	0.5%	0.6%	0.4%	IE2	FRN125G1#-2U○	138	90	346						
FRN150G1#-2U○	50.0	0.0%	1.5%	0.7%	0.6%	1.2%	0.6%	0.5%	0.6%	0.4%	IE2	FRN150G1#-2U○	165	110	415						

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 enclosure code. (S: Standard type / E: EMC filter built in type / H: DC reactor built in type)
 6. "*" mark represents the destination code. (J: Japanese / A: Asia / C: China / E: Europe)
 7. "○" mark represents variations in order code. (letter(s) and/ or number(s), or blank)