Specifications of the FAS 4000

Power loss data in accordance with EN 61800-9-2

Type	Nominal current $I_{2N,PU}$	Apparent power	Operating points[1]									IE class[2]
			(0/25)	(0/50)	(0/100)	(50/25)	(50/50)	(50/100)	(90/50)	(90/100)	(90/100)	
			Relative losses								Nominal efficiency	
	[A]	[kVA]	[%]								[%]	
FAS 4014	2.1	1.5	2.59	2.77	3.29	2.53	3.01	3.72	3.31	4.09	94.6	IE2
FAS 4016	4	1.6	2.59	2.77	3.29	2.53	3.01	3.72	3.31	4.09	94.6	IE2
FAS 4028	4	2.8	1.56	1.81	2.31	1.62	2.00	2.70	2.27	3.25	95.6	IE2

Tab. 1: Relative losses of FAS 4000 inverters in accordance with EN 61800-9-2

[1] Operating points for relative motor stator frequency in % and relative torque current in %
[2] IE class in accordance with EN 61800-9-2

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Type	Nominal current $I_{2N,PU}$	Apparent power	Operating points[3]									IE class[4]	Comparison[5]
			(0/25)	(0/50)	(0/100)	(50/25)	(50/50)	(50/100)	(90/50)	(90/100)	(90/100)		
			Absolute losses P_V								Nominal efficiency		
	[A]	[kVA]	[W]								[%]		[%]
FAS 4014	2.1	1.5	37.7	40.3	47.9	36.8	43.9	54.2	48.1	59.5	94.6	IE2	36.6
FAS 4016	4	1.6	41.3	44.2	52.5	40.3	48.0	59.3	52.7	65.1	94.6	IE2	40.0
FAS 4028	4	2.8	43.1	50.2	64.1	44.8	55.5	74.7	63.0	90.1	95.6	IE2	37.9

Tab. 2: Absolute losses of FAS 4000 inverters in accordance with EN 61800-9-2

General conditions

The loss data applies to inverters without accessories.

The power loss calculation is based on a three-phase supply voltage with 400 V_{AC}/50 Hz.

The calculated data includes a supplement of 10% in accordance with EN 61800-9-2.

The power loss specifications refer to a clock frequency of 4 kHz.

EMC specifications

Radio interference suppression

Integrated line filter in accordance with EN 61800-3

- Interference emission class C3
- Interference emission class C2 with reduced motor cable length (on request)

[3] Operating points for relative motor stator frequency in % and relative torque current in %
[4] IE class in accordance with EN 61800-9-2
[5] Comparison of the losses for the reference inverter related to IE2 in the nominal point (90, 100)

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