

MICROMASTER 420

Options

Variant dependent options

Selection and ordering data

The options listed here (filters, chokes, gland plates, fuses, and circuit-breakers) must be selected to match the inverter.


The inverter and the associated options have the same voltage ratings. Alternatively fuses and circuit-breakers can be

provided. Both provide short circuit protection of the inverter supply line and the inverter. A semiconductor protection of


the inverter with the suggested 3NA... fuses and the 3RV... circuit-breakers is not envisaged.

Mains voltage	Output		Inverter without filter	Order No. of the options			
	kW	hp		EMC filter Class A	EMC filter Class B	Additional EMC filter, Class B	
1 AC 200 V to 240 V	0.12	0.16	6SE6420-2UC11-2AA1	–	6SE6400-2FL01-0AB0 with low leakage currents	–	
	0.25	0.33	6SE6420-2UC12-5AA1	–		–	
	0.37	0.50	6SE6420-2UC13-7AA1	–		–	
	0.55	0.75	6SE6420-2UC15-5AA1	–		–	
	0.75	1.0	6SE6420-2UC17-5AA1	–		–	
	1.1	1.5	6SE6420-2UC21-1BA1	–	6SE6400-2FL02-6BB0 with low leakage currents	–	
	1.5	2.0	6SE6420-2UC21-5BA1	–		–	
	2.2	3.0	6SE6420-2UC22-2BA1	–		–	
	3.0	4.0	6SE6420-2UC23-0CA1	–		–	
3 AC 200 V to 240 V	0.12	0.16	6SE6420-2UC11-2AA1	6SE6400-2FA00-6AD0	6SE6400-2FB00-6AD0	–	
	0.25	0.33	6SE6420-2UC12-5AA1	–	–	–	
	0.37	0.50	6SE6420-2UC13-7AA1	–	–	–	
	0.55	0.75	6SE6420-2UC15-5AA1	–	–	–	
	0.75	1.0	6SE6420-2UC17-5AA1	–	–	–	
	1.1	1.5	6SE6420-2UC21-1BA1	6SE6400-2FA01-4BC0	6SE6400-2FB01-4BC0	–	
	1.5	2.0	6SE6420-2UC21-5BA1	–	–	–	
	2.2	3.0	6SE6420-2UC22-2BA1	–	–	–	
	3.0	4.0	6SE6420-2UC23-0CA1	–	–	–	
	4.0	5.0	6SE6420-2UC24-0CA1	–	–	–	
3 AC 380 V to 480 V	0.37	0.50	6SE6420-2UD13-7AA1	6SE6400-2FA00-6AD0	6SE6400-2FB00-6AD0	–	
	0.55	0.75	6SE6420-2UD15-5AA1	–	–	–	
	0.75	1.0	6SE6420-2UD17-5AA1	–	–	–	
	1.1	1.5	6SE6420-2UD21-1AA1	–	–	–	
	1.5	2.0	6SE6420-2UD21-5AA1	–	–	–	
	2.2	3.0	6SE6420-2UD22-2BA1	–	–	–	
	3.0	4.0	6SE6420-2UD23-0BA1	–	–	–	
	4.0	5.0	6SE6420-2UD24-0BA1	–	–	–	
	5.5	7.5	6SE6420-2UD25-5CA1	–	–	–	
	7.5	10.0	6SE6420-2UD27-5CA1	–	–	–	
1 AC 200 V to 240 V			Inverter with internal filter Class A				
	0.12	0.16	6SE6420-2AB11-2AA1	–	–	6SE6400-2FS01-0AB0	
	0.25	0.33	6SE6420-2AB12-5AA1	–	–	–	
	0.37	0.50	6SE6420-2AB13-7AA1	–	–	–	
	0.55	0.75	6SE6420-2AB15-5AA1	–	–	–	
	0.75	1.0	6SE6420-2AB17-5AA1	–	–	–	
	1.1	1.5	6SE6420-2AB21-1BA1	–	–	6SE6400-2FS02-6BB0	
	1.5	2.0	6SE6420-2AB21-5BA1	–	–	–	
	2.2	3.0	6SE6420-2AB22-2BA1	–	–	–	
	3.0	4.0	6SE6420-2AB23-0CA1	–	–	6SE6400-2FS03-5CB0	
	3 AC 200 V to 240 V	3.0	4.0	6SE6420-2AC23-0CA1	–	–	6SE6400-2FS03-8CD0
		4.0	5.0	6SE6420-2AC24-0CA1	–	–	–
		5.5	7.5	6SE6420-2AC25-5CA1	–	–	–
3 AC 380 V to 480 V	2.2	3.0	6SE6420-2AD22-2BA1	–	–	6SE6400-2FS01-6BD0	
	3.0	4.0	6SE6420-2AD23-0BA1	–	–	–	
	4.0	5.0	6SE6420-2AD24-0BA1	–	–	–	
	5.5	7.5	6SE6420-2AD25-5CA1	–	–	6SE6400-2FS03-8CD0	
	7.5	10.0	6SE6420-2AD27-5CA1	–	–	–	
	11	15.0	6SE6420-2AD31-1CA1	–	–	–	

Selection and ordering data (continued)

All options are certified to , except fuses. The fuses of Type 3NA3 are recommended for Europe.

Additional information on the listed fuses and circuit-breakers can be found in Catalogs LV 1 and LV 1 T.

Use in America requires -listed fuses such as the Class NON/NOS range from Bussmann.

Mains voltage	Output		Inverter without filter	Order No. of the options			
	kW	hp		Line commutating choke	LC filter	Output choke	
1 AC 200 V to 240 V	0.12	0.16	6SE6420-2UC11-2AA1	6SE6400-3CC00-4AB3	–	6SE6400-3TC00-4AD3	
	0.25	0.33	6SE6420-2UC12-5AA1	–	–	–	
	0.37	0.50	6SE6420-2UC13-7AA1	6SE6400-3CC01-0AB3	–	–	
	0.55	0.75	6SE6420-2UC15-5AA1	–	–	–	
	0.75	1.0	6SE6420-2UC17-5AA1	–	–	–	
	1.1	1.5	6SE6420-2UC21-1BA1	6SE6400-3CC02-6BB3	–	6SE6400-3TC01-0BD3	
	1.5	2.0	6SE6420-2UC21-5BA1	–	–	–	
	2.2	3.0	6SE6420-2UC22-2BA1	–	–	–	
	3.0	4.0	6SE6420-2UC23-0CA1	6SE6400-3CC03-5CB3	–	6SE6400-3TC03-2CD3	
3 AC 200 V to 240 V	0.12	0.16	6SE6420-2UC11-2AA1	6SE6400-3CC00-3AC3	–	6SE6400-3TC00-4AD3	
	0.25	0.33	6SE6420-2UC12-5AA1	–	–	–	
	0.37	0.50	6SE6420-2UC13-7AA1	6SE6400-3CC00-5AC3	–	–	
	0.55	0.75	6SE6420-2UC15-5AA1	–	–	–	
	0.75	1.0	6SE6420-2UC17-5AA1	–	–	–	
	1.1	1.5	6SE6420-2UC21-1BA1	6SE6400-3CC00-8BC3	–	6SE6400-3TC01-0BD3	
	1.5	2.0	6SE6420-2UC21-5BA1	6SE6400-3CC01-4BD3	–	–	
	2.2	3.0	6SE6420-2UC22-2BA1	–	–	–	
	3.0	4.0	6SE6420-2UC23-0CA1	6SE6400-3CC01-7CC3	–	6SE6400-3TC03-2CD3	
3 AC 200 V to 240 V	4.0	5.0	6SE6420-2UC24-0CA1	6SE6400-3CC03-5CD3	–	–	
	5.5	7.5	6SE6420-2UC25-5CA1	–	–	–	
	3 AC 380 V to 480 V	0.37	0.50	6SE6420-2UD13-7AA1	6SE6400-3CC00-2AD3	6SE6400-3TD00-4AD0	6SE6400-3TC00-4AD2
		0.55	0.75	6SE6420-2UD15-5AA1	–	–	–
		0.75	1.0	6SE6420-2UD17-5AA1	6SE6400-3CC00-4AD3	–	–
		1.1	1.5	6SE6420-2UD21-1AA1	–	–	–
		1.5	2.0	6SE6420-2UD21-5AA1	6SE6400-3CC00-6AD3	–	–
		2.2	3.0	6SE6420-2UD22-2BA1	6SE6400-3CC01-0BD3	6SE6400-3TD01-0BD0	6SE6400-3TC01-0BD3
		3.0	4.0	6SE6420-2UD23-0BA1	–	–	–
4.0		5.0	6SE6420-2UD24-0BA1	6SE6400-3CC01-4BD3	–	–	
5.5		7.5	6SE6420-2UD25-5CA1	6SE6400-3CC02-2CD3	6SE6400-3TD03-2CD0	6SE6400-3TC03-2CD3	
3 AC 380 V to 480 V	7.5	10.0	6SE6420-2UD27-5CA1	–	–	–	
	11	15.0	6SE6420-2UD31-1CA1	6SE6400-3CC03-5CD3	–	–	
	Inverter with internal filter Class A						
	1 AC 200 V to 240 V	0.12	0.16	6SE6420-2AB11-2AA1	6SE6400-3CC00-4AB3	–	6SE6400-3TC00-4AD3
		0.25	0.33	6SE6420-2AB12-5AA1	–	–	–
		0.37	0.50	6SE6420-2AB13-7AA1	6SE6400-3CC01-0AB3	–	–
		0.55	0.75	6SE6420-2AB15-5AA1	–	–	–
		0.75	1.0	6SE6420-2AB17-5AA1	–	–	–
		1.1	1.5	6SE6420-2AB21-1BA1	6SE6400-3CC02-6BB3	–	6SE6400-3TC01-0BD3
1.5		2.0	6SE6420-2AB21-5BA1	–	–	–	
2.2		3.0	6SE6420-2AB22-2BA1	–	–	–	
3.0		4.0	6SE6420-2AB23-0CA1	6SE6400-3CC03-5CB3	–	6SE6400-3TC03-2CD3	
3 AC 200 V to 240 V	3.0	4.0	6SE6420-2AC23-0CA1	6SE6400-3CC01-7CC3	–	6SE6400-3TC03-2CD3	
	4.0	5.0	6SE6420-2AC24-0CA1	6SE6400-3CC03-5CD3	–	–	
	5.5	7.5	6SE6420-2AC25-5CA1	–	–	–	
3 AC 380 V to 480 V	2.2	3.0	6SE6420-2AD22-2BA1	6SE6400-3CC01-0BD3	6SE6400-3TD01-0BD0	6SE6400-3TC01-0BD3	
	3.0	4.0	6SE6420-2AD23-0BA1	–	–	–	
	4.0	5.0	6SE6420-2AD24-0BA1	6SE6400-3CC01-4BD3	–	–	
	5.5	7.5	6SE6420-2AD25-5CA1	6SE6400-3CC02-2CD3	6SE6400-3TD03-2CD0	6SE6400-3TC03-2CD3	
	7.5	10.0	6SE6420-2AD27-5CA1	–	–	–	
	11	15.0	6SE6420-2AD31-1CA1	6SE6400-3CC03-5CD3	–	–	

MICROMASTER 420

Options

Variant dependent options

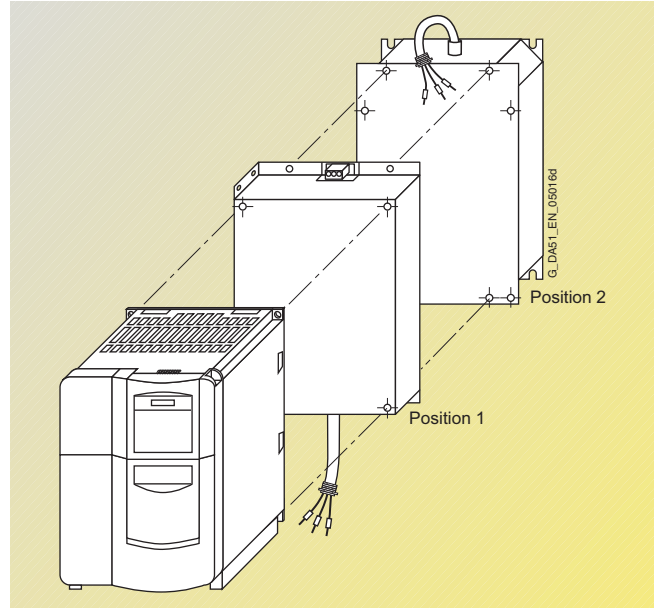
Selection and ordering data (continued)

Mains voltage	Output		Inverter without filter	Order No. of the options		
	kW	hp		Gland plate	Fuse (see Catalog LV 1)	Circuit-breaker (see Catalog LV 1)
1 AC 200 V to 240 V	0.12	0.16	6SE6420-2UC11-2AA1	6SE6400-0GP00-0AA0	3NA3803	3RV1021-1DA10
	0.25	0.33	6SE6420-2UC12-5AA1			3RV1021-1GA10
	0.37	0.50	6SE6420-2UC13-7AA1			3RV1021-1HA10
	0.55	0.75	6SE6420-2UC15-5AA1			3RV1021-1JA10
	0.75	1.0	6SE6420-2UC17-5AA1		3NA3805	3RV1021-4AA10
	1.1	1.5	6SE6420-2UC21-1BA1	6SE6400-0GP00-0BA0	3NA3807	3RV1021-4BA10
	1.5	2.0	6SE6420-2UC21-5BA1			3RV1021-4DA10
	2.2	3.0	6SE6420-2UC22-2BA1		3NA3812	3RV1031-4FA10
	3.0	4.0	6SE6420-2UC23-0CA1	6SE6400-0GP00-0CA0	3NA3817	3RV1031-4HA10
3 AC 200 V to 240 V	0.12	0.16	6SE6420-2UC11-2AA1	6SE6400-0GP00-0AA0	3NA3803	3RV1021-1AA10
	0.25	0.33	6SE6420-2UC12-5AA1			3RV1021-1DA10
	0.37	0.50	6SE6420-2UC13-7AA1			3RV1021-1EA10
	0.55	0.75	6SE6420-2UC15-5AA1			3RV1021-1GA10
	0.75	1.0	6SE6420-2UC17-5AA1			3RV1021-1HA10
	1.1	1.5	6SE6420-2UC21-1BA1	6SE6400-0GP00-0BA0	3NA3805	3RV1021-1KA10
	1.5	2.0	6SE6420-2UC21-5BA1			3RV1021-4AA10
	2.2	3.0	6SE6420-2UC22-2BA1		3NA3807	3RV1021-4BA10
	3.0	4.0	6SE6420-2UC23-0CA1	6SE6400-0GP00-0CA0	3NA3810	3RV1021-4CA10
4.0	5.0	6SE6420-2UC24-0CA1		3NA3812	3RV1031-4EA10	
5.5	7.5	6SE6420-2UC25-5CA1		3NA3814	3RV1031-4FA10	
3 AC 380 V to 480 V	0.37	0.50	6SE6420-2UD13-7AA1	6SE6400-0GP00-0AA0	3NA3803	3RV1021-1CA10
	0.55	0.75	6SE6420-2UD15-5AA1			3RV1021-1DA10
	0.75	1.0	6SE6420-2UD17-5AA1			3RV1021-1EA10
	1.1	1.5	6SE6420-2UD21-1AA1			3RV1021-1GA10
	1.5	2.0	6SE6420-2UD21-5AA1			3RV1021-1HA10
	2.2	3.0	6SE6420-2UD22-2BA1	6SE6400-0GP00-0BA0	3NA3805	3RV1021-1JA10
	3.0	4.0	6SE6420-2UD23-0BA1			3RV1021-1KA10
	4.0	5.0	6SE6420-2UD24-0BA1		3NA3807	3RV1021-4AA10
	5.5	7.5	6SE6420-2UD25-5CA1	6SE6400-0GP00-0CA0		3RV1021-4CA10
7.5	10.0	6SE6420-2UD27-5CA1		3NA3810	3RV1031-4EA10	
11	15.0	6SE6420-2UD31-1CA1		3NA3814	3RV1031-4GA10	
			Inverter with internal filter Class A			
1 AC 200 V to 240 V	0.12	0.16	6SE6420-2AB11-2AA1	6SE6400-0GP00-0AA0	3NA3803	3RV1021-1DA10
	0.25	0.33	6SE6420-2AB12-5AA1			3RV1021-1GA10
	0.37	0.50	6SE6420-2AB13-7AA1			3RV1021-1HA10
	0.55	0.75	6SE6420-2AB15-5AA1			3RV1021-1JA10
	0.75	1.0	6SE6420-2AB17-5AA1		3NA3805	3RV1021-4AA10
	1.1	1.5	6SE6420-2AB21-1BA1	6SE6400-0GP00-0BA0	3NA3807	3RV1021-4BA10
	1.5	2.0	6SE6420-2AB21-5BA1			3RV1021-4DA10
	2.2	3.0	6SE6420-2AB22-2BA1		3NA3812	3RV1031-4FA10
	3.0	4.0	6SE6420-2AB23-0CA1	6SE6400-0GP00-0CA0	3NA3817	3RV1031-4HA10
3 AC 200 V to 240 V	3.0	4.0	6SE6420-2AC23-0CA1	6SE6400-0GP00-0CA0	3NA3810	3RV1021-4CA10
	4.0	5.0	6SE6420-2AC24-0CA1		3NA3812	3RV1031-4EA10
	5.5	7.5	6SE6420-2AC25-5CA1		3NA3814	3RV1031-4FA10
3 AC 380 V to 480 V	2.2	3.0	6SE6420-2AD22-2BA1	6SE6400-0GP00-0BA0	3NA3805	3RV1021-1JA10
	3.0	4.0	6SE6420-2AD23-0BA1			3RV1021-1KA10
	4.0	5.0	6SE6420-2AD24-0BA1			3RV1021-4AA10
	5.5	7.5	6SE6420-2AD25-5CA1	6SE6400-0GP00-0CA0		3RV1021-4CA10
	7.5	10.0	6SE6420-2AD27-5CA1		3NA3810	3RV1031-4EA10
	11	15.0	6SE6420-2AD31-1CA1		3NA3814	3RV1031-4GA10

Design

General installation instructions

- A maximum of two footprint components plus inverter are permissible.
- If an LC filter is used, it must be mounted directly on the wall of the control cabinet due to weight reasons. If an LC filter of frame size C is used, therefore, only one footprint component is permissible. If a line choke and LC filter are used, the line choke must be located on the left of the inverter. Required distance between line choke and inverter: 75 mm.
- The EMC filter must be mounted directly below the frequency inverter if possible.
- If mounted on the side, the line-side components are to be mounted to the left of the frequency inverter whereas the output-side components are to be mounted to the right of the frequency inverter.



Example of installation with frequency inverter, EMC filter (position 1) and line choke (position 2)

Availability of the options as footprint components

	Frame size		
	A	B	C
Line commutating choke	✓	✓	✓
EMC filter	✓	✓	✓
LC filter	✓	✓	✓
Output choke	✓	✓	✓

Recommended combinations of inverters and options

Frequency inverter Frame size	Footprint		Mounted on side	
	Position 1	Position 2	To the left of the inverter (for line-side components)	To the right of the inverter (for output-side components)
A and B	EMC filter	Line commutating choke	–	Output choke
	EMC filter <u>or</u> Line commutating choke	Output choke <u>or</u> LC filter	–	–
C	EMC filter	Line commutating choke	–	Output choke
	EMC filter <u>or</u> Line commutating choke	Output choke	–	–
	LC filter	–	EMC filter <u>and/or</u> Line commutating choke	–