

SINAMICS S120 drive system

Power Modules

Power Modules in blocksize format

Line filters

Overview



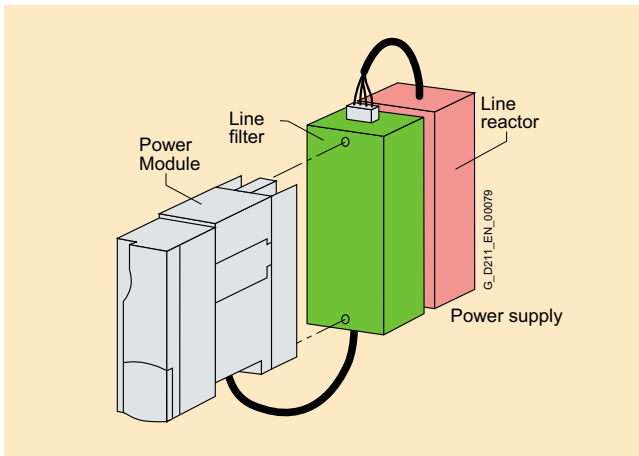
In plants with strict EMC requirements, the line filter for frame size FSA restricts the conducted interference emanating from the PM340 Power Module to the limit values of Class A1 as defined in EN 55011 and Category C2 as defined in EN 61800-3. The line filter is suited only for direct connection to TN systems.

Note:

The line filter is designed only for PM340 Power Modules of frame size FSA and a line voltage of 380 V to 480 V 3 AC. All other PM340 Power Modules are available with integrated line filter.

Integration

Line filter, line reactor and Power Module can be mounted in front of one another.



Technical specifications

Order No.	6SE6400-2FA00-6AD0
Product name	Line filter
Line voltage	380 ... 480 V 3 AC
Rated current	6 A
Power loss	< 5 W
Line connection	2.5 mm screw-type terminals ² L1, L2, L3
PE connection	On housing with M4 bolt
Load connection	Shielded cable 3 x 2.5 mm ² 0.4 m (1.31 ft) long
Degree of protection	IP20 (with correctly connected load connection cable)
Dimensions	
• Width	73.5 mm (2.89 in)
• Height	200 mm (7.87 in)
• Depth	44 mm (1.73 in)
Weight, approx.	0.5 kg (1.10 lb)
Approvals	cURus

Selection and Ordering Data

Suitable for PM340 Power Module Frame size FSA	Line filter
Type	Order No.
Line voltage 380 ... 480 V 3 AC	
6SL3210-1SE11-...	6SE6400-2FA00-6AD0
6SL3210-1SE12-...	
6SL3210-1SE13-...	
6SL3210-1SE14-...	

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Power Modules in blocksize format Recommended line-side components

Overview

Suitable line-side power components are assigned depending on the power rating of the Power Modules.

The following tables list recommended components and apply for ambient temperatures up to 40 °C (104 °F).

Further information about the main contactors, switch disconnectors, fuses and circuit-breakers specified in the tables can be found in the Catalogs LV 1, LV 1 T and ET B1.

Assignment of line-side power components to Power Modules in blocksize format

Rated output current	Rated power	Suitable for PM340 Power Module	Main contactor	Miniature circuit breakers	Fuse switch disconnecter	Fuse
A	kW (HP)	Type ...	Type	Order No.	Order No.	Order No.
Line voltage 200 ... 240 V 1 AC						
0.9	0.12 (0.2)	6SL3210-1SB11-0...	5TT57...	5SY6110-7	3NC1091	3NW6003-1
2.3	0.37 (0.5)	6SL3210-1SB12-3...	5TT57...	5SY6110-7	3NC1091	3NW6003-1
3.9	0.75 (0.75)	6SL3210-1SB14-0...	5TT57...	5SY6116-7	3NC1091	3NW6005-1

Rated output current	Rated power	Suitable for PM340 Power Module	Main contactor	Circuit-breaker	Main switch	Fuse switch disconnecter	Switch disconnecter with fuse holders	Fuse
A	kW (HP)	Type	Type	Order No.	Order No.	Order No.	Order No.	Order No.
Line voltage 380 ... 480 V 3 AC								
1.3	0.37 (0.5)	6SL3210-1SE11-3UA0	3RT1015-...	3RV1021-1CA10	3LD2003-1TP51	3NP4010-0CH01	3KL5030-1EB01	3NA3803
1.7	0.55 (0.75)	6SL3210-1SE11-7UA0	3RT1015-...	3RV1021-1DA10	3LD2003-1TP51	3NP4010-0CH01	3KL5030-1EB01	3NA3803
2.2	0.75 (1)	6SL3210-1SE12-2UA0	3RT1015-...	3RV1021-1FA10	3LD2003-1TP51	3NP4010-0CH01	3KL5030-1EB01	3NA3803
3.1	1.1 (1.5)	6SL3210-1SE13-1UA0	3RT1015-...	3RV1021-1GA10	3LD2003-1TP51	3NP4010-0CH01	3KL5030-1EB01	3NA3803
4.1	1.5 (2)	6SL3210-1SE14-1UA0	3RT1015-...	3RV1021-1HA10	3LD2003-1TP51	3NP4010-0CH01	3KL5030-1EB01	3NA3803
5.9	2.2 (3)	6SL3210-1SE16-0...	3RT1015-...	3RV1021-1KA10	3LD2003-1TP51	3NP4010-0CH01	3KL5030-1EB01	3NA3805
7.7	3 (5)	6SL3210-1SE17-7...	3RT1015-...	3RV1021-4AA10	3LD2003-1TP51	3NP4010-0CH01	3KL5030-1EB01	3NA3805
10	4 (5)	6SL3210-1SE21-0...	3RT1016-...	3RV1021-4BA10	3LD2103-1TP51	3NP4010-0CH01	3KL5030-1EB01	3NA3807
18	7.5 (10)	6SL3210-1SE21-8...	3RT1025-...	3RV1031-4EA10	3LD2203-0TK51	3NP4010-0CH01	3KL5030-1EB01	3NA3807
25	11 (15)	6SL3210-1SE22-5...	3RT1026-...	3RV1031-4FA10	3LD2504-0TK51	3NP4010-0CH01	3KL5030-1EB01	3NA3812
32	15 (20)	6SL3210-1SE23-2...	3RT1034-...	3RV1031-4HA10	3LD2504-0TK51	3NP4010-0CH01	3KL5030-1EB01	3NA3814
38	18.5 (25)	6SL3210-1SE23-8...	3RT1035-...	3RV1042-4JA10	3LD2504-0TK51	3NP4010-0CH01	3KL5030-1EB01	3NA3820
45	22 (30)	6SL3210-1SE24-5...	3RT1036-...	3RV1042-4KA10	3LD2504-0TK51	3NP4010-0CH01	3KL5030-1EB01	3NA3822
60	30 (40)	6SL3210-1SE26-0...	3RT1044-...	3RV1042-4MA10	3LD2704-0TK51	3NP4010-0CH01	3KL5230-1EB01	3NA3824
75	37 (50)	6SL3210-1SE27-5...	3RT1045-...	3VL1712-1DD33-0AA0	3LD2704-0TK51	3NP4010-0CH01	3KL5230-1EB01	3NA3830
90	45 (60)	6SL3210-1SE31-0...	3RT1046-...	3VL1716-1DD33-0AA0	3LD2804-0TK51	3NP4070-0CH01	3KL5230-1EB01	3NA3832
110	55 (75)	6SL3210-1SE31-1...	3RT1054-...	3VL3720-1DC36-0AA0	3KA5330-1EE01	3NP4070-0CH01	3KL5330-1EB01	3NA3836
145	75 (100)	6SL3210-1SE31-5...	3RT1056-...	3VL3725-1DC36-0AA0	3KA5530-1EE01	3NP4270-0CA01	3KL5530-1EB01	3NA3140
178	90 (125)	6SL3210-1SE31-8...	3RT1064-...	3VL4731-1DC36-0AA0	3KA5530-1EE01	3NP4270-0CA01	3KL5530-1EB01	3NA3144