

SINAMICS G130

Drive converter chassis units

Load-side power components > Motor reactors

Overview



Motor reactors reduce the voltage load on the motor windings by reducing the voltage gradients at the motor terminals that occur during converter operation. At the same time, the capacitive charge/discharge currents that place an additional load on the converter output when long motor cables are used, are reduced. The maximum permissible output frequency when a motor reactor is used is 150 Hz.

The motor reactor must be installed as close as possible to the Power Module.

Selection and ordering data

Suitable for Power Module	Type rating of the Power Module at 400 V, 500 V or 690 V kW	Motor reactor Article No.
380 ... 480 V 3 AC		
6SL3310-1GE32-1AA3	110	6SL3000-2BE32-1AA0
6SL3310-1GE32-6AA3	132	6SL3000-2BE32-6AA0
6SL3310-1GE33-1AA3	160	6SL3000-2BE33-2AA0
6SL3310-1GE33-8AA3	200	6SL3000-2BE33-8AA0
6SL3310-1GE35-0AA3	250	6SL3000-2BE35-0AA0
6SL3310-1GE36-1AA3	315	6SL3000-2AE36-1AA0
6SL3310-1GE37-5AA3	400	6SL3000-2AE38-4AA0
6SL3310-1GE38-4AA3	450	
6SL3310-1GE41-0AA3	560	6SL3000-2AE41-0AA0
500 ... 600 V 3 AC		
6SL3310-1GF31-8AA3	110	6SL3000-2AH31-8AA0
6SL3310-1GF32-2AA3	132	6SL3000-2AH32-4AA0
6SL3310-1GF32-6AA3	160	6SL3000-2AH32-6AA0
6SL3310-1GF33-3AA3	200	6SL3000-2AH33-6AA0
6SL3310-1GF34-1AA3	250	6SL3000-2AH34-5AA0
6SL3310-1GF34-7AA3	315	6SL3000-2AH34-7AA0
6SL3310-1GF35-8AA3	400	6SL3000-2AH35-8AA0
6SL3310-1GF37-4AA3	500	6SL3000-2AH38-1AA0
6SL3310-1GF38-1AA3	560	
660 ... 690 V 3 AC		
6SL3310-1GH28-5AA3	75	6SL3000-2AH31-0AA0
6SL3310-1GH31-0AA3	90	
6SL3310-1GH31-2AA3	110	6SL3000-2AH31-5AA0
6SL3310-1GH31-5AA3	132	
6SL3310-1GH31-8AA3	160	6SL3000-2AH31-8AA0
6SL3310-1GH32-2AA3	200	6SL3000-2AH32-4AA0
6SL3310-1GH32-6AA3	250	6SL3000-2AH32-6AA0
6SL3310-1GH33-3AA3	315	6SL3000-2AH33-6AA0
6SL3310-1GH34-1AA3	400	6SL3000-2AH34-5AA0
6SL3310-1GH34-7AA3	450	6SL3000-2AH34-7AA0
6SL3310-1GH35-8AA3	560	6SL3000-2AH35-8AA0
6SL3310-1GH37-4AA3	710	6SL3000-2AH38-1AA0
6SL3310-1GH38-1AA3	800	

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Technical specifications

Line voltage 380 ... 480 V 3 AC		Motor reactor (for pulse frequencies of 2 kHz to 4 kHz)				
		6SL3000-2BE32-1AA0	6SL3000-2BE32-6AA0	6SL3000-2BE33-2AA0	6SL3000-2BE33-8AA0	6SL3000-2BE35-0AA0
Rated current	A	210	260	310	380	490
Power loss						
• At 50 Hz	kW	0.436	0.454	0.422	0.477	0.448
• At 150 Hz	kW	0.486	0.5	0.47	0.5	0.5
Load connection		1 × hole for M10	1 × hole for M10	1 × hole for M10	1 × hole for M10	1 × hole for M12
PE connection		M8 screw	M8 screw	M8 screw	M8 screw	M8 screw
Cable length, max. between motor reactor and motor ¹⁾						
• Shielded	m	300	300	300	300	300
• Unshielded	m	450	450	450	450	450
Degree of protection		IP00	IP00	IP00	IP00	IP00
Dimensions						
• Width	mm	300	300	300	300	300
• Height	mm	285	315	285	285	365
• Depth	mm	257	277	257	277	277
Weight, approx.	kg	60	66	62	73	100
Approvals, according to		cURus	cURus	cURus	cURus	cURus
Suitable for Power Module		6SL3310-1GE32-1AA3 (110 kW)	6SL3310-1GE32-6AA3 (132 kW)	6SL3310-1GE33-1AA3 (160 kW)	6SL3310-1GE33-8AA3 (200 kW)	6SL3310-1GE35-0AA3 (250 kW)

Line voltage 380 ... 480 V 3 AC		Motor reactor (for pulse frequencies of 1.25 kHz to 2.5 kHz)			
		6SL3000-2AE36-1AA0	6SL3000-2AE38-4AA0		6SL3000-2AE41-0AA0
Rated current	A	605	840	840	985
Power loss					
• At 50 Hz	kW	0.798	0.75	0.834	0.939
• At 150 Hz	kW	0.9	0.84	0.943	1.062
Load connection		1 × hole for M12	1 × hole for M12	1 × hole for M12	1 × hole for M12
PE connection		M10 screw	M10 screw	M10 screw	M10 screw
Cable length, max. between motor reactor and motor ¹⁾					
• Shielded	m	300	300	300	300
• Unshielded	m	450	450	450	450
Degree of protection		IP00	IP00	IP00	IP00
Dimensions					
• Width	mm	410	410	410	410
• Height	mm	392	392	392	392
• Depth	mm	292	292	292	302
Weight, approx.	kg	130	140	140	146
Approvals, according to		cURus	cURus	cURus	cURus
Suitable for Power Module		6SL3310-1GE36-1AA3 (315 kW)	6SL3310-1GE37-5AA3 (400 kW)	6SL3310-1GE38-4AA3 (450 kW)	6SL3310-1GE41-0AA3 (560 kW)