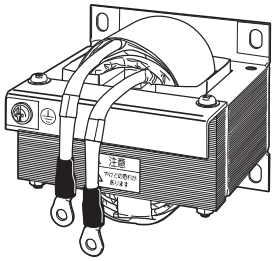
DC Reactor (3G3AX-DL□□□□)

Use these reactors to suppress harmonics generated from the inverter.



Specifications

Inverter						DC reactor specifications				
Voltage class	Max. applicable motor capacity [kW]	Model	Normal/ Light load mode	Max. applicable motor capacity [kW]	Rated input current [A]	Model	Inductance [mH]	Heat generation [W]	Operating ambient temperature/ humidity	Location
3-phase 200-V class	0.1	3G3MX2-A2001-V2	Normal load ✻1	0.1	1.0	3G3AX-DL2002	21.4	8	-10 to 50°C 20% to 90%	At an altitude of 1,000 m max.; indoors (without corrosive gases or dust)
			Light load	0.2	1.2					
	0.2	3G3MX2-A2002-V2	Normal load ✻1	0.2	1.6					
			Light load	0.4	1.9	3G3AX-DL2004	10.7			
	0.4	3G3MX2-A2004-V2	Normal load ✻1	0.4	3.3					
			Light load	0.75	3.9	3G3AX-DL2007	6.75	10		
	0.75	3G3MX2-A2007-V2	Normal load ✻1	0.75	6.0					
			Light load	1.1	7.2	3G3AX-DL2015	3.51			
	1.5	3G3MX2-A2015-V2	Normal load ✻1	1.5	9.0					
			Light load	2.2	10.8	3G3AX-DL2022	2.51	13		
	2.2	3G3MX2-A2022-V2	Normal load ✻1	2.2	12.7					
			Light load	3.0	13.9	3G3AX-DL2037	1.60	20		
	3.7	3G3MX2-A2037-V2	Normal load ✻1	3.7	20.5					
			Light load	5.5	23.0	3G3AX-DL2055	1.11	26		
	5.5	3G3MX2-A2055-V2	Normal load ✻1	5.5	30.8					
			Light load	7.5	37.0	3G3AX-DL2075	0.84	36		
	7.5	3G3MX2-A2075-V2	Normal load ✻1	7.5	39.6					
			Light load	11	48.0	3G3AX-DL2110	0.59	52		
	11	3G3MX2-A2110-V2	Normal load ✻1	11	57.1					
			Light load	15	68.0	3G3AX-DL2150	0.44	60		
	15	3G3MX2-A2150-V2	Normal load ✻1	15	62.6					
			Light load	18.5	72.0	3G3AX-DL2220	0.30	63		
Single-phase 200-V Class	0.1	3G3MX2-AB001-V2	Normal load ✻1	0.1	1.3	3G3AX-DL2002	21.4	8	-10 to 50°C 20% to 90%	At an altitude of 1,000 m max.; indoors (without corrosive gases or dust)
			Light load	0.2	2.0					
	0.2	3G3MX2-AB002-V2	Normal load ✻1	0.2	3.0					
			Light load	0.4	3.6	3G3AX-DL2004	10.7			
	0.4	3G3MX2-AB004-V2	Normal load ✻1	0.4	6.3					
			Light load	0.55	7.3	3G3AX-DL2007	6.75	10		
	0.75	3G3MX2-AB007-V2	Normal load ✻1	0.75	11.5					
			Light load	1.1	13.8	3G3AX-DL2015	3.51			
	1.5	3G3MX2-AB015-V2	Normal load ✻1	1.5	16.8					
			Light load	2.2	20.2	3G3AX-DL2022	2.51	13		
	2.2	3G3MX2-AB022-V2	Normal load ✻1	2.2	22.0					
			Light load	3.0	24.0	3G3AX-DL2037	1.60	20		

Inverter						DC reactor specifications				
Voltage class	Max. applicable motor capacity [kW]	Model	Normal/ Light load mode	Max. applicable motor capacity [kW]	Rated input current [A]	Model	Inductance [mH]	Heat generation [W]	Operating ambient temperature/ humidity	Location
3-phase 400-V class	0.4	3G3MX2-A4004-V2	Normal load ✻1	0.4	1.8	3G3AX-DL4004	43.0	10	-10 to 50°C 20% to 90%	At an altitude of 1,000 m max.; indoors (without corrosive gases or dust)
			Light load	0.75	2.1	3G3AX-DL4007	27.0			
	0.75	3G3MX2-A4007-V2	Normal load ✻1	0.75	3.6					
			Light load	1.5	4.3	3G3AX-DL4015	14.0			
	1.5	3G3MX2-A4015-V2	Normal load ✻1	1.5	5.2					
			Light load	2.2	5.9	3G3AX-DL4022	10.1	13		
	2.2	3G3MX2-A4022-V2	Normal load ✻1	2.2	6.5					
			Light load	3.0	8.1	3G3AX-DL4037	6.4	20		
	3.0	3G3MX2-A4030-V2	Normal load ✻1	3.0	7.7					
			Light load	4.0	9.4					
	4.0	3G3MX2-A4040-V2	Normal load ✻1	4.0	11.0					
			Light load	5.5	13.3	3G3AX-DL4055	4.41	26		
	5.5	3G3MX2-A4055-V2	Normal load ✻1	5.5	16.9					
			Light load	7.5	20.0	3G3AX-DL4075	3.35	36		
	7.5	3G3MX2-A4075-V2	Normal load ✻1	7.5	18.8					
			Light load	11	24.0	3G3AX-DL4110	2.33	52		
	11	3G3MX2-A4110-V2	Normal load ✻1	11	29.4					
			Light load	15	38.0	3G3AX-DL4150	1.75	60		
	15	3G3MX2-A4150-V2	Normal load ✻1	15	35.9					
			Light load	18.5	44.0	3G3AX-DL4220	1.2	67		

✻1. The DC reactor model for the normal load mode is selected with reference to the rated current value of a general-purpose motor, which is 85% of the rated output current of the Inverter. If you intend to constantly drive a motor whose rated current value exceeds 85% of the rated output current of the inverter, use the DC reactor model selected for the light-load mode.

Dimensions (Unit: mm)

Inverter input power supply	Model	Fig. No.	Applicable Motor capacity [kW]	Dimensions [mm]									Weight [kg]	Standard applicable wire
				W	D	H	A	B	X	Y	C	K		
3-phase/ 1-phase 200 VAC	3G3AX-DL2002	Fig. 1	0.1, 0.2	66	90	98	-	85	56	72	5.2×8	M4	0.8	1.25 mm² min.
	3G3AX-DL2004		0.4	66	90	98	-	95	56	72	5.2×8	M4	1.0	1.25 mm² min.
	3G3AX-DL2007		0.55, 0.75	66	90	98	-	105	56	72	5.2×8	M4	1.3	2 mm² min.
	3G3AX-DL2015		1.1, 1.5	66	90	98	-	115	56	72	5.2×8	M4	1.6	2 mm² min.
	3G3AX-DL2022		2.2	86	100	116	-	105	71	80	6×9	M4	2.1	2 mm² min.
	3G3AX-DL2037		3.0, 3.7	86	100	118	-	120	71	80	6×9	M4	2.6	3.5 mm² min.
	3G3AX-DL2055	Fig. 2	5.5	111	100	210	-	110	95	80	7×11	M5	3.6	8 mm² min.
	3G3AX-DL2075		7.5	111	100	212	-	120	95	80	7×11	M6	3.9	14 mm² min.
	3G3AX-DL2110		11	146	120	252	-	110	124	96	7×11	M6	6.5	22 mm² min.
	3G3AX-DL2150		15	146	120	256	-	120	124	96	7×11	M8	7.0	38 mm² min.
	3G3AX-DL2220	Fig. 3	18.5	120	175	356	140	145	98	151	7×11	M8	9.0	60 mm² min.
3-phase 400 VAC	3G3AX-DL4004	Fig. 1	0.4	66	90	98	-	85	56	72	5.2×8	M4	0.8	1.25 mm² min.
	3G3AX-DL4007		0.75	66	90	98	-	95	56	72	5.2×8	M4	1.1	1.25 mm² min.
	3G3AX-DL4015		1.5	66	90	98	-	115	56	72	5.2×8	M4	1.6	2 mm² min.
	3G3AX-DL4022		2.2	86	100	116	-	105	71	80	6×9	M4	2.1	2 mm² min.
	3G3AX-DL4037		3.0	86	100	116	-	120	71	80	6×9	M4	2.6	2 mm² min.
	3G3AX-DL4055		5.5	111	100	138	-	110	95	80	7×11	M4	3.6	3.5 mm² min.
	3G3AX-DL4075		7.5	111	100	138	-	115	95	80	7×11	M4	3.9	3.5 mm² min.
	3G3AX-DL4110	Fig. 2	11	146	120	250	-	105	124	96	7×11	M5	5.2	5.5 mm² min.
	3G3AX-DL4150		15	146	120	252	-	120	124	96	7×11	M6	7.0	14 mm² min.
	3G3AX-DL4220	Fig. 3	18.5	120	175	352	140	145	98	151	7×11	M6	9.5	22 mm² min.

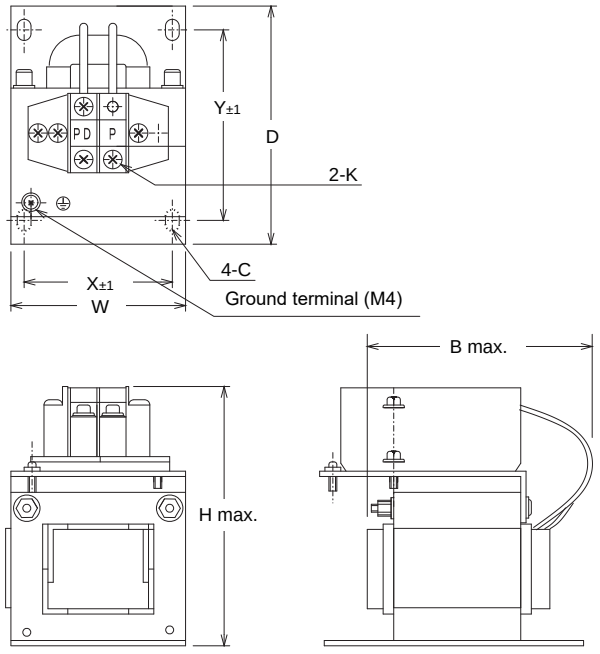


Fig. 1

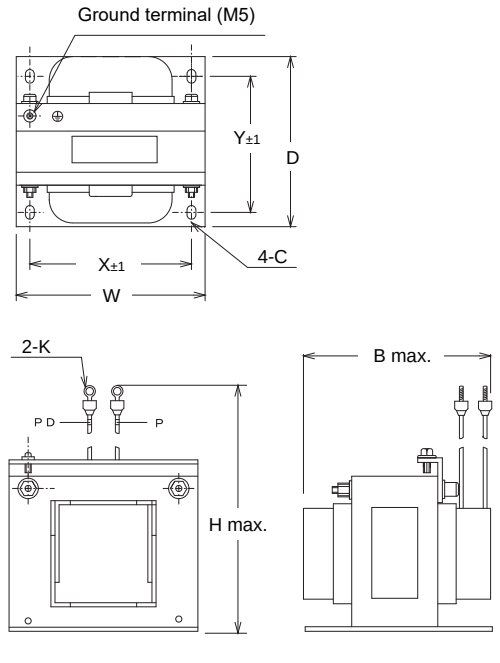


Fig. 2

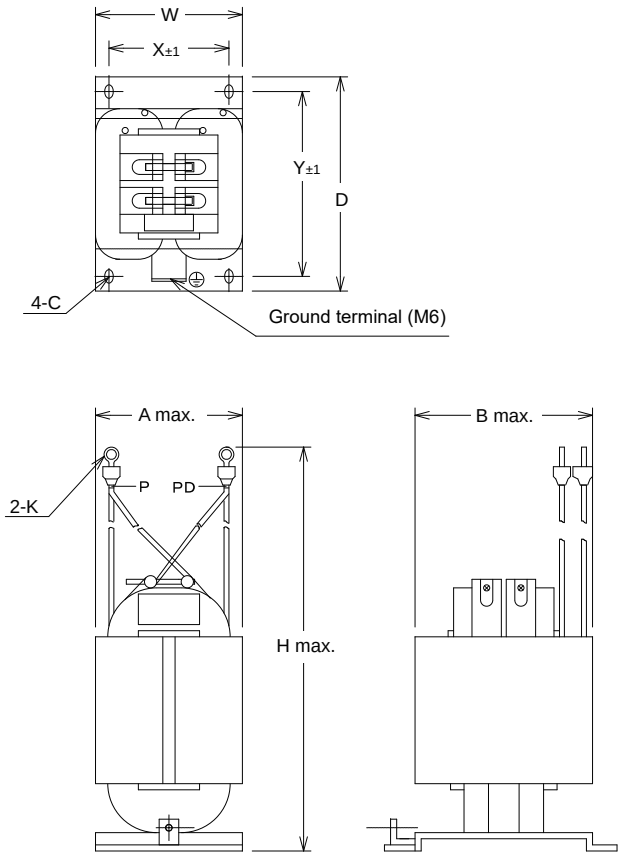
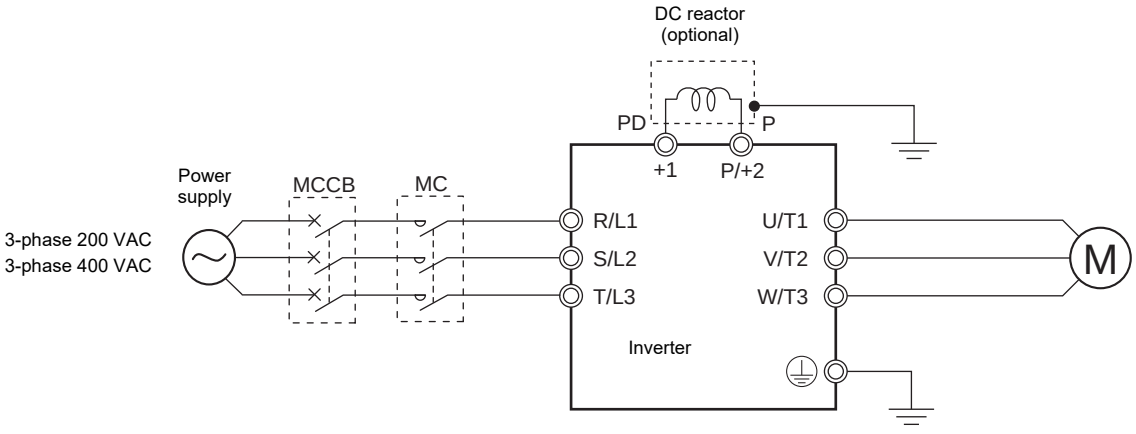


Fig. 3

Connection Examples



DC Reactor Connection Terminals (+1, P/+2)

- These terminals are used to connect the optional DC reactor for power factor improvement.
  By factory setting, a short-circuit bar is connected between the terminals +1 and P/+2. Before connecting the DC reactor, remove this short-circuit bar.
- The length of the DC reactor connection cable must be 5 m or shorter.
- The DC reactor has no polarity.

Note: 1. Remove the short-circuit bar only if you connect the DC reactor for use.
If you remove the short-circuit bar with the DC reactor unconnected, the inverter cannot operate because no power is supplied to its main circuit.