

MICROMASTER 440

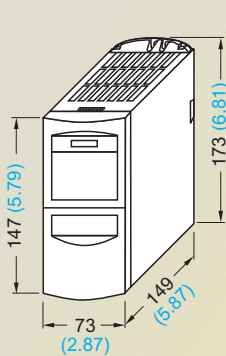
Dimension drawings

MICROMASTER 440 inverter

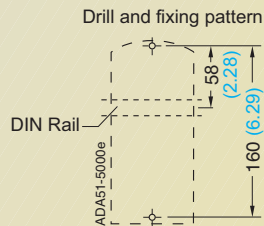
Frame size	1/3 AC 200 V to 240 V	3 AC 380 V to 480 V	3 AC 500 V to 600 V
A	0.12 kW to 0.75 kW	0.37 kW to 1.5 kW	–
B	1.1 kW to 2.2 kW	2.2 kW to 4 kW	–
C	3 kW to 5.5 kW	5.5 kW to 11 kW	0.75 kW to 11 kW

The specified outputs are valid for CT mode.

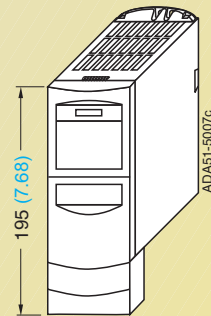
Note:
The inverters must not be mounted horizontally. But the inverters can be mounted without lateral spacing.



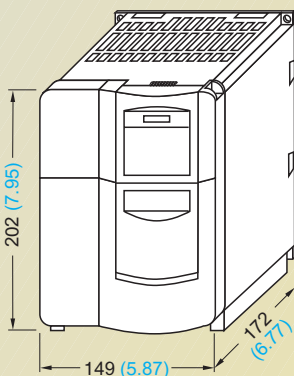
Inverter frame size **A**



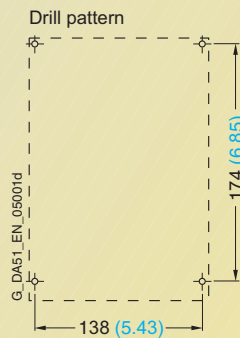
Fixing with 2 x M4 bolts, 2 x M4 nuts,
2 x M4 washers
or by snapping onto a rail
Tightening torque with washers fitted:
2.5 Nm
Ventilation clearance required
Top and bottom: 100 mm



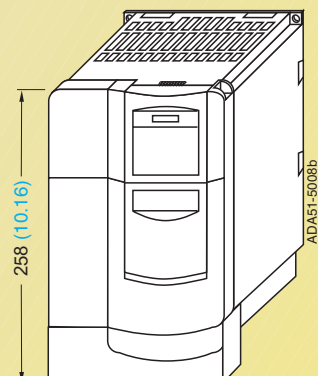
Inverter frame size **A** with gland plate



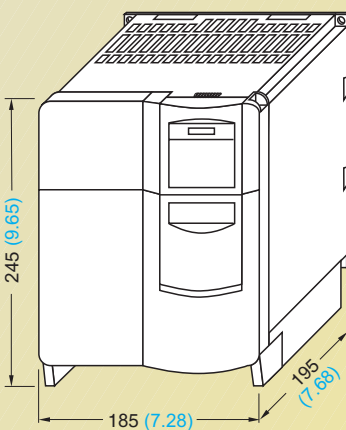
Inverter frame size **B**



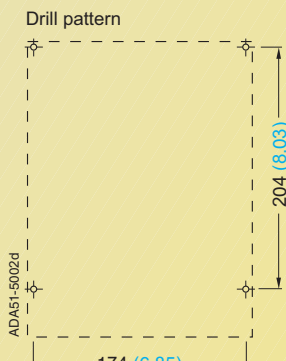
Fixing with 4 x M4 bolts, 4 x M4 nuts,
4 x M4 washers
Tightening torque with washers fitted:
2.5 Nm
Ventilation clearance required
Top and bottom: 100 mm



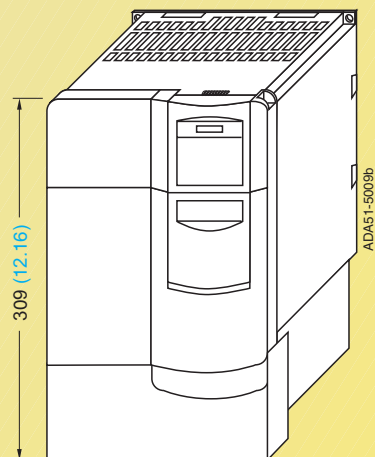
Inverter frame size **B** with gland plate



Inverter frame size **C**



Fixing with 4 x M5 bolts, 4 x M5 nuts,
4 x M5 washers
Tightening torque with washers fitted:
3.0 Nm
Ventilation clearance required
Top and bottom: 100 mm



Inverter frame size **C** with gland plate

With the communications module, the mounting depth increases by 23 mm (0.91 inches). If a pulse encoder evaluation module is mounted in addition, the installation depth increases by another 23 mm (0.91 inches).

All dimensions in mm (values in brackets are in inches)

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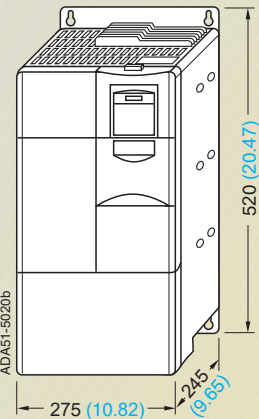
Dimension drawings

MICROMASTER 440 inverter (continued)

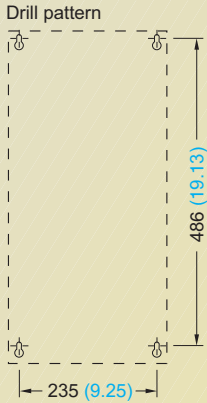
Frame size	3 AC 200 V to 240 V	3 AC 380 V to 480 V	3 AC 500 V to 600 V
D	7.5 kW to 15 kW	15 kW to 22 kW	15 kW to 22 kW
E	18.5 kW to 22 kW	30 kW to 37 kW	30 kW to 37 kW
F	30 kW to 45 kW	45 kW to 75 kW	45 kW to 75 kW

The specified outputs are valid for CT mode.

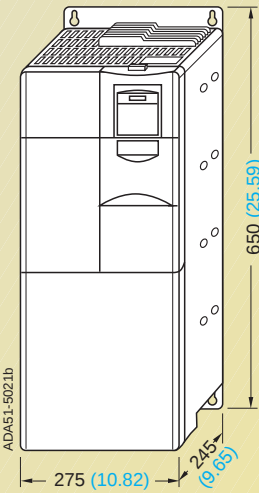
Note:
The inverters must not be mounted horizontally. But the inverters can be mounted without lateral spacing.



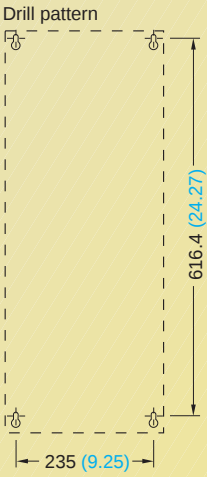
Inverter frame size D



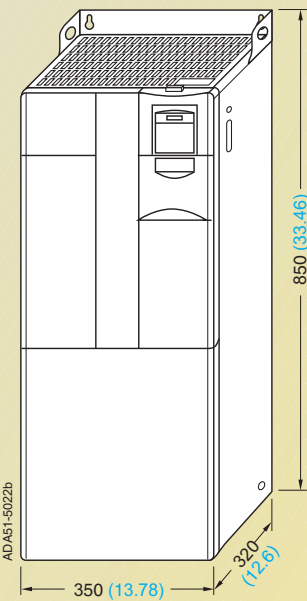
Fixing with
4 x M8 bolts, 4 x M8 nuts,
4 x M8 washers
Tightening torque with washers
fitted: 13 Nm
Ventilation clearance required
Top and bottom: 300 mm



Inverter frame size E



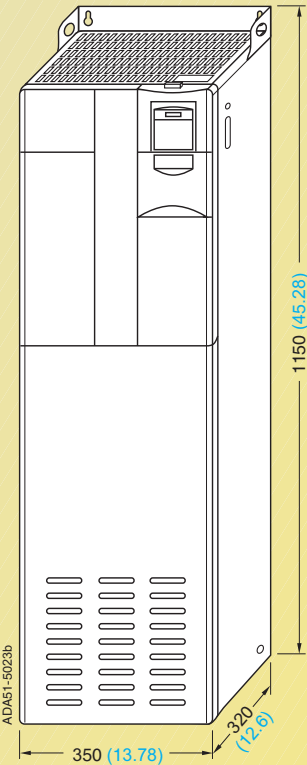
Fixing with
4 x M8 bolts, 4 x M8 nuts,
4 x M8 washers
Tightening torque with washers
fitted: 13 Nm
Ventilation clearance required
Top and bottom: 300 mm



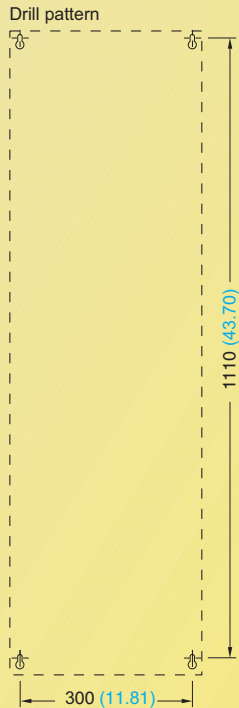
**Inverter frame size F
without filter**



Fixing with
4 x M8 bolts, 4 x M8 nuts,
4 x M8 washers
Tightening torque with washers
fitted: 13 Nm
Ventilation clearance required
Top and bottom: 350 mm



**Inverter frame size F
with filter**



Fixing with
4 x M8 bolts, 4 x M8 nuts,
4 x M8 washers
Tightening torque with washers
fitted: 13 Nm
Ventilation clearance required
Top and bottom: 350 mm

All dimensions in mm (values in brackets are in inches)

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Dimension drawings

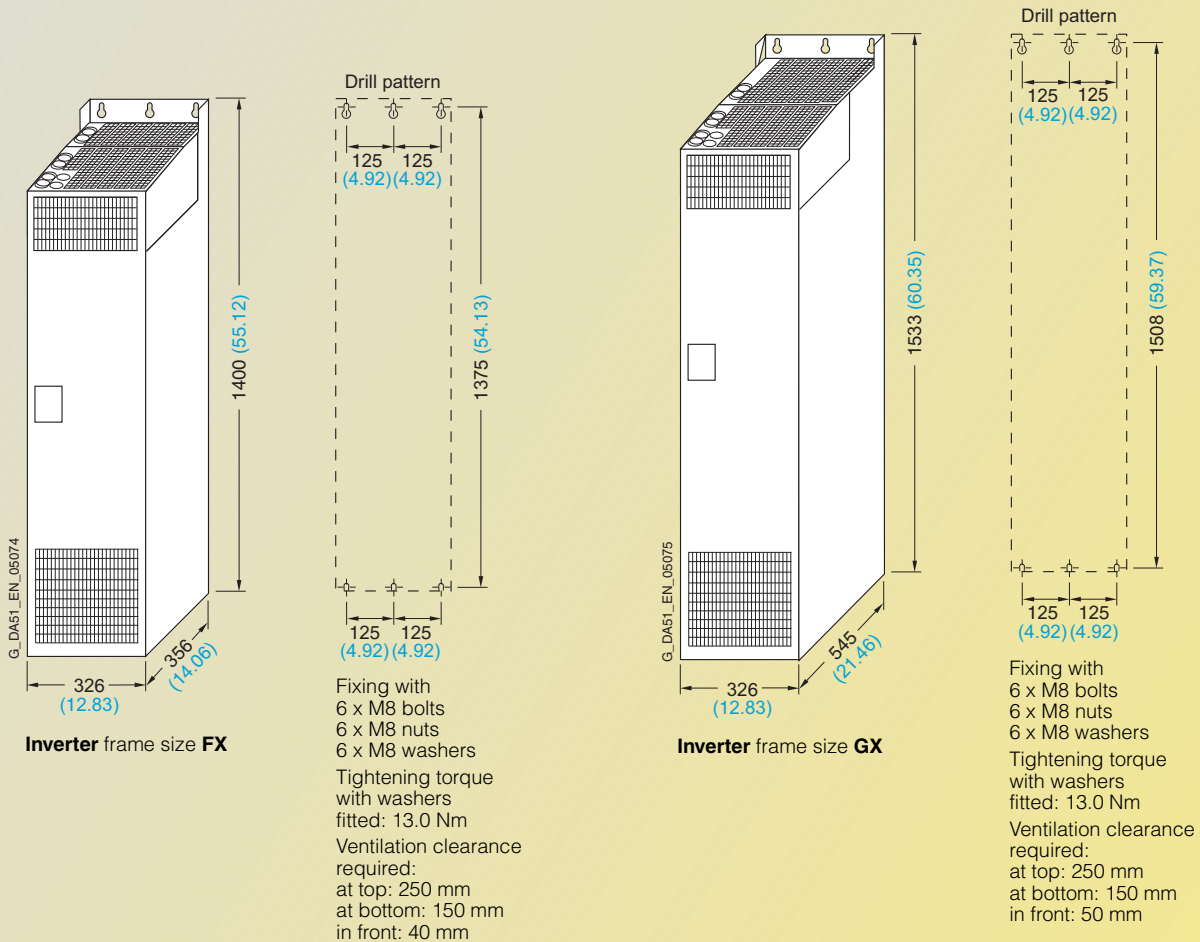
MICROMASTER 440 inverter (continued)

Frame size	3 AC 380 V to 480 V
FX	90 kW to 110 kW
GX	132 kW to 200 kW

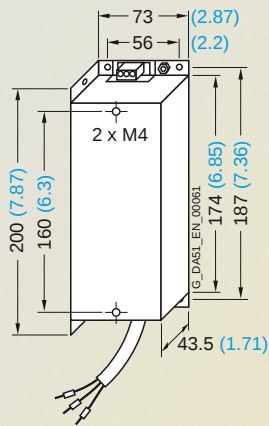
The specified outputs are valid for CT mode.

Note:

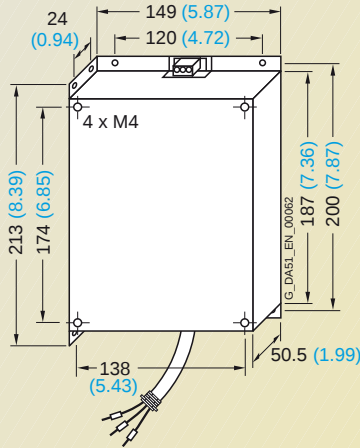
The inverters must not be mounted horizontally. But the inverters can be mounted without lateral spacing.



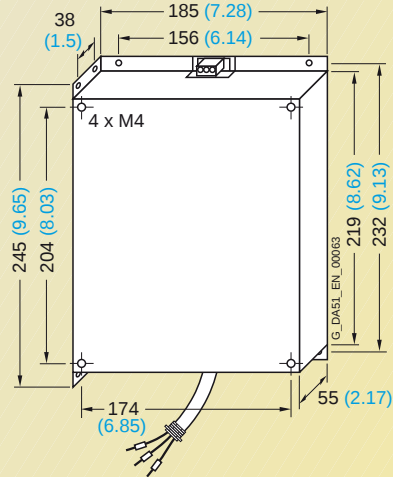
EMC filter



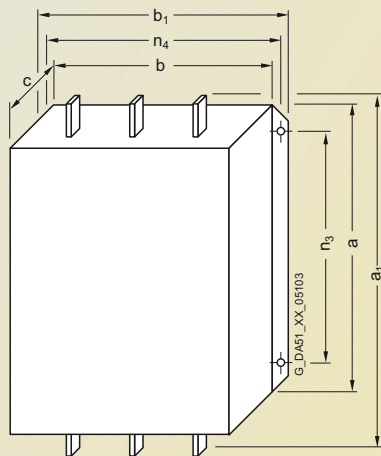
EMC filter for frame size **A**



For frame size **B**



For frame size **C**



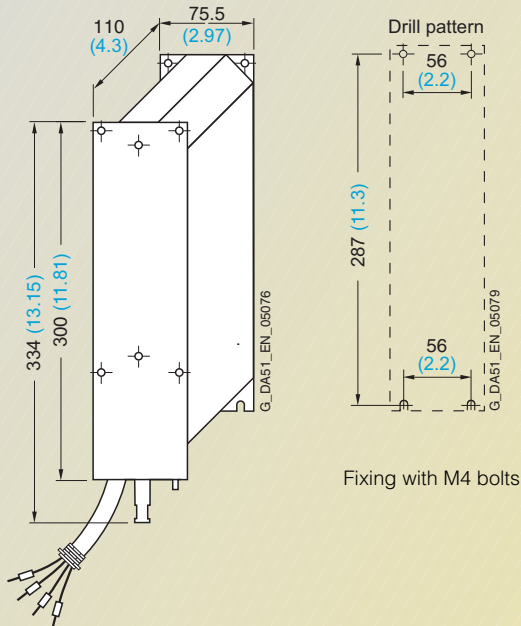
EMC filter Class A Type 6SL3000-	for inverter Frame size (FS)	Dimensions							Weight, approx kg
		a	a ₁	b	b ₁	c	n ₃	n ₄	
OBE32-5AA0	FX	270 (10.63)	360 (14.17)	200 (7.87)	240 (9.45)	116 (4.57)	210 (8.27)	220 (8.66)	12.3
OBE34-4AA0	FX/GX	270 (10.63)	360 (14.17)	200 (7.87)	240 (9.45)	116 (4.57)	210 (8.27)	220 (8.66)	12.3
OBE36-0AA0	GX	310 (12.2)	400 (15.75)	215 (8.46)	265 (10.43)	140 (5.51)	250 (9.84)	240 (9.45)	19.0

EMC filter for frame sizes **FX** and **GX**

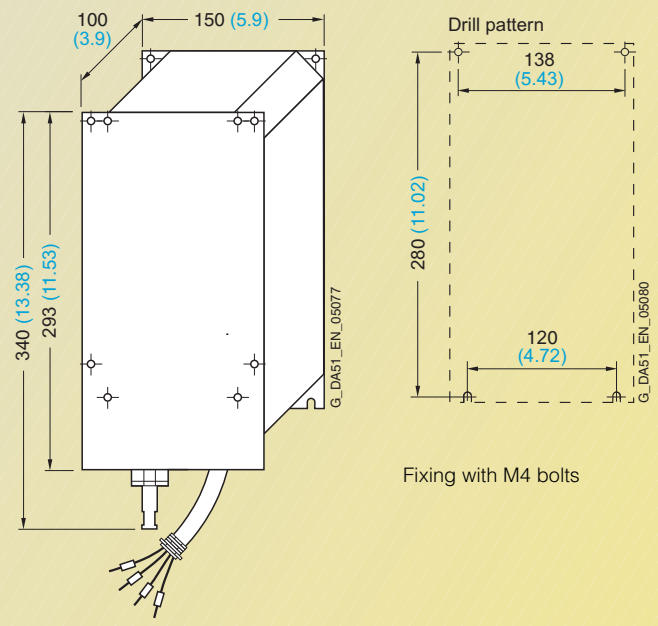
MICROMASTER 440

Dimension drawings

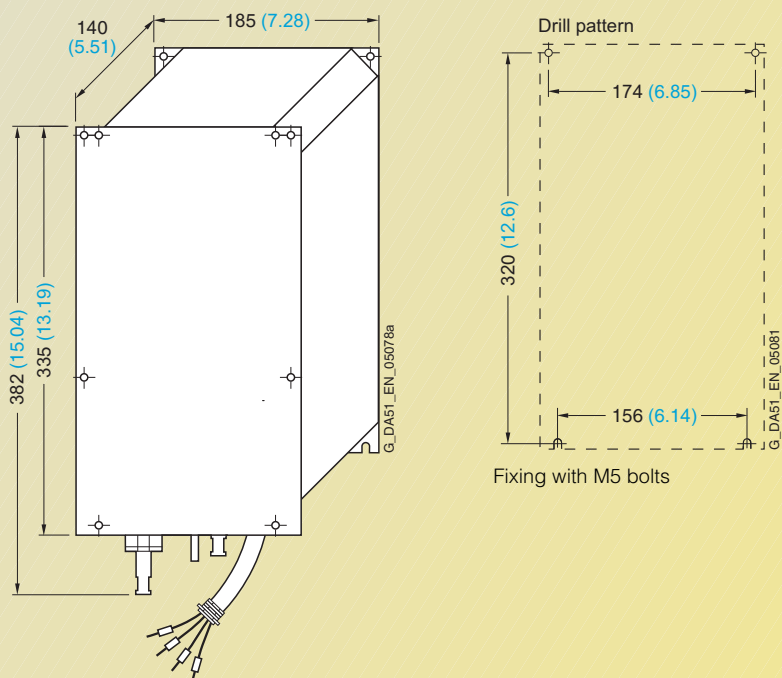
LC filter



LC filter for frame size A



For frame size B

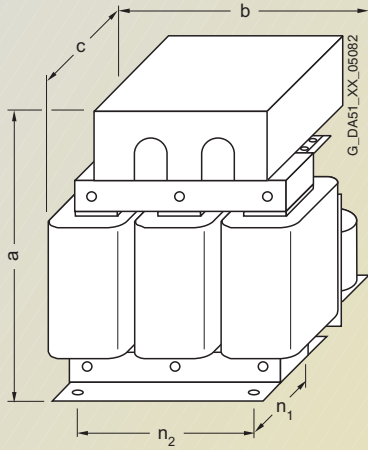


LC filter for frame size C

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Dimension drawings

LC filter



Fixing with M10 bolts

LC filter for frame sizes **D** to **F**

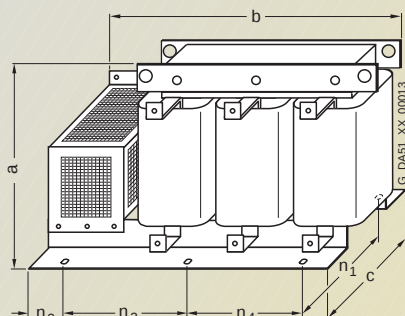
LC filter Type	for inverter Frame size (FS)	Dimensions					Weight, approx kg
		a	b	c	n ₁	n ₂	
6SE6400-3TD03-7DD0	D	278 (10.94)	240 (9.45)	230 (9.06)	115 (4.53)	190 (7.48)	21.0
6SE6400-3TD04-8DD0	D	290 (11.42)	240 (9.45)	240 (9.45)	125 (4.92)	190 (7.48)	26.0
6SE6400-3TD06-1DD0	D	345 (13.58)	300 (11.81)	220 (8.66)	120 (4.72)	240 (9.45)	34.0
6SE6400-3TD02-3DE0	D	280 (11.02)	240 (9.45)	240 (9.45)	125 (4.92)	190 (7.48)	26.1
6SE6400-3TD03-2DE0	D	300 (11.81)	300 (11.81)	235 (9.25)	133 (5.24)	240 (9.45)	39.5
6SE6400-3TD03-7DE0	D	310 (12.2)	300 (11.81)	250 (9.84)	145 (5.71)	240 (9.45)	42.0
6SE6400-3TD07-2ED0	E	355 (13.98)	300 (11.81)	235 (9.25)	145 (5.71)	240 (9.45)	49.5
6SE6400-3TD04-8EE0	E	345 (13.58)	300 (11.81)	260 (10.24)	160 (6.3)	240 (9.45)	48.5
6SE6400-3TD06-1EE0	E	345 (13.58)	300 (11.81)	275 (10.83)	171 (6.73)	240 (9.45)	57.5
6SE6400-3TD11-5FD0	E/F	460 (18.11)	360 (14.17)	235 (9.25)	125 (4.92)	264 (10.39)	67.0
6SE6400-3TD15-0FD0	F	460 (18.11)	360 (14.17)	250 (9.84)	140 (5.51)	264 (10.39)	75.0
6SE6400-3TD18-0FD0	F	520 (20.47)	420 (16.54)	290 (11.42)	173 (6.81)	316 (12.44)	77.5
6SE6400-3TD07-1FE0	F	380 (14.96)	300 (11.81)	285 (11.22)	171 (6.73)	240 (9.45)	70.5
6SE6400-3TD10-0FE0	F	460 (18.11)	360 (14.17)	250 (9.84)	140 (5.11)	264 (10.39)	70.5
6SE6400-3TD11-5FE0	F	515 (20.28)	420 (16.54)	290 (11.42)	173 (6.81)	316 (12.44)	125.5

All dimensions in mm (values in brackets are in inches)

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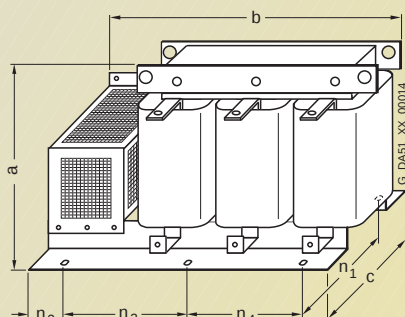
Dimension drawings

Sinusoidal filter



Sinusoidal filter for frame sizes **FX** and **GX**

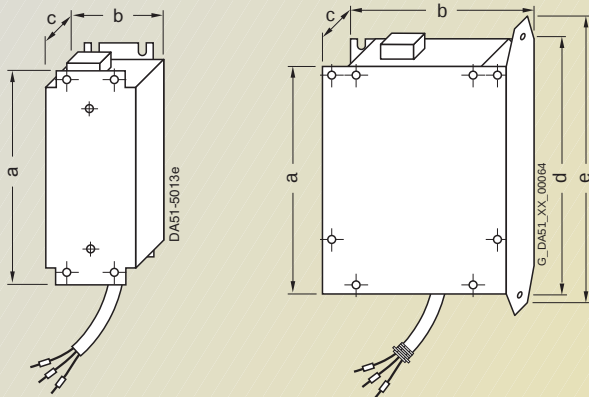
Sinusoidal filter Type 6SL3000-	for inverter Frame size (FS)	Dimensions							Weight (max.) kg
		a	b	c	n ₁	n ₂	n ₃	n ₄	
2CE32-3AA0	FX	300 (11.81)	620 (24.41)	320 (12.6)	280 (11.02)	105 (4.13)	225 (8.86)	150 (5.91)	135.0
2CE32-8AA0	GX	300 (11.81)	620 (24.41)	320 (12.6)	280 (11.02)	105 (4.13)	225 (8.86)	150 (5.91)	138.0



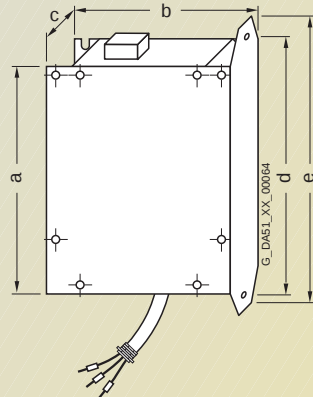
Sinusoidal filter for frame size **GX**

Sinusoidal filter Type 6SL3000-	for inverter Frame size (FS)	Dimensions							Weight (max.) kg
		a	b	c	n ₁	n ₂	n ₃	n ₄	
2CE33-3AA0	GX	370 (14.57)	620 (24.41)	360 (14.17)	320 (12.6)	105 (4.13)	225 (8.86)	150 (5.91)	144.0
2CE34-1AA0	GX	370 (14.57)	620 (24.41)	360 (14.17)	320 (12.6)	105 (4.13)	225 (8.86)	150 (5.91)	208.0

Line commutating chokes

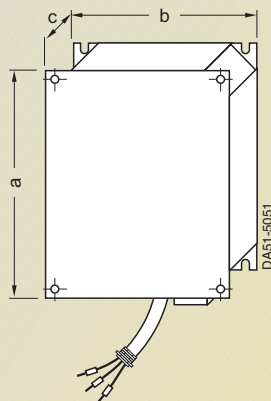


Line commutating choke for frame size **A**



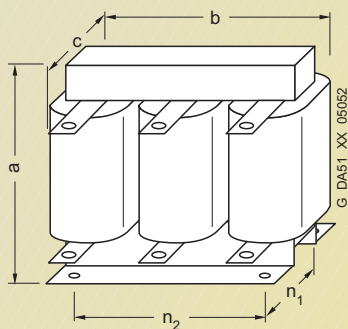
For frame sizes **B** and **C**

Line commutating choke for	Dimensions					Weight (max.) kg
	a	b	c	d	e	
Frame size A	200 (7.87)	75.5 (2.97)	50 (1.97)	–	–	1.4
Frame size B	213 (8.39)	150 (5.91)	50 (1.97)	220 (8.66)	233 (9.17)	2.2
Frame size C (380–480 V)	245 (9.65)	185 (7.28)	50 (1.97)	264 (10.39)	280 (11.02)	5.1
Frame size C (500–600 V, 0.75–1.5 kW)	245 (9.65)	185 (7.28)	50 (1.97)	264 (10.39)	280 (11.02)	3.8
Frame size C (500–600 V, 2.2–4 kW)	245 (9.65)	185 (7.28)	50 (1.97)	264 (10.39)	280 (11.02)	4.0
Frame size C (500–600 V, 5.5–11 kW)	245 (9.65)	185 (7.28)	80 (3.15)	264 (10.39)	280 (11.02)	8.0



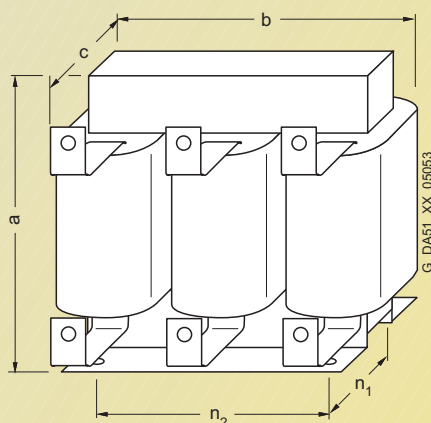
Line commutating choke for frame sizes **D** and **E**

Line commutating choke for	Dimensions			Weight (max.) kg
	a	b	c	
Frame size D	520 (20.47)	275 (10.83)	85 (3.35)	9.5
Frame size E	650 (25.59)	275 (10.83)	95 (3.74)	17.0



Line commutating choke for inverter frame size **F**

Line commutating choke Type	for inverter Frame size (FS)	Dimensions					Weight (max.) kg
		a	b	c	n ₁	n ₂	
6SE6400-3CC11-....	F	228 (8.98)	240 (9.45)	141 (5.55)	95 (3.74)	185 (7.28)	25.0



Line commutating choke for inverters of frame sizes **FX** and **GX**

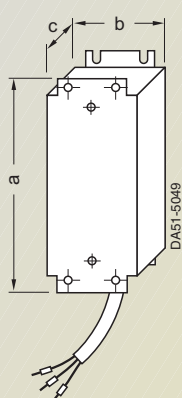
Line commutating choke Type	for inverter Frame size (FS)	Dimensions					Weight (max.) kg
		a	b	c	n ₁	n ₂	
0CE32-....	FX	248 (9.76)	255 (10.04)	203 (7.99)	101 (3.98)	200 (7.87)	24.0
0CE33-....	GX	248 (9.76)	255 (10.04)	203 (7.99)	101 (3.98)	200 (7.87)	25.0
0CE35-....	GX	269 (10.59)	275 (10.83)	210 (8.27)	118 (4.65)	224 (8.82)	35.0

All dimensions in mm (values in brackets are in inches)

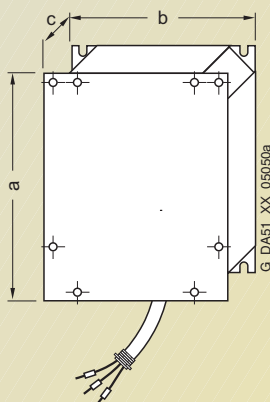
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Dimension drawings

Output chokes

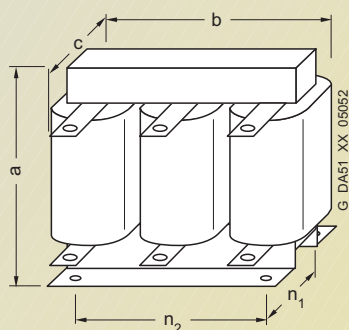


Output choke
for frame size **A**
6SE6400-3TC00-4AD2
6SE6400-3TC00-4AD3



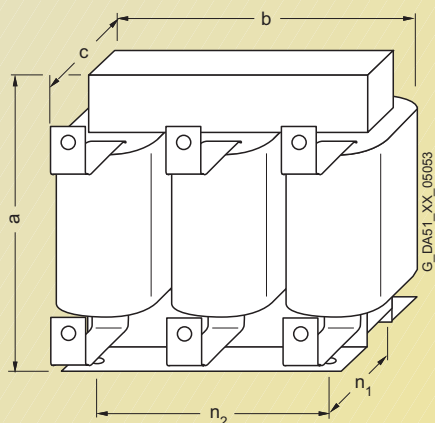
For frame sizes **B** and **C**
6SE6400-3TC01-0BD3
6SE6400-3TC01-8CE3
6SE6400-3TC03-2CD3

Output choke Type 6SE6400-	Dimensions			Weight (max.) kg
	a	b	c	
3TC00-4AD2	200 (7.87)	75.5 (2.97)	110 (4.33)	1.9
3TC00-4AD3	200 (7.87)	75.5 (2.97)	50 (1.97)	1.3
3TC01-0BD3	213 (8.39)	150 (5.91)	80 (3.15)	4.1
3TC01-8CE3	245 (9.65)	185 (7.28)	110 (4.33)	10.8
3TC03-2CD3	245 (9.65)	185 (7.28)	80 (3.15)	6.6



Output chokes
for inverters of frame sizes **D, E** and **F**

Output choke Type 6SE6400-	for inverter Frame size (FS)	Dimensions			to DIN 41 308		Weight (max.) kg
		a	b	c	n ₁	n ₂	
3TC03-2DE0	D	210 (8.27)	225 (8.86)	179 (7.05)	94 (3.70)	176 (6.93)	16.0
3TC03-8DD0	D	210 (8.27)	225 (8.86)	179 (7.05)	94 (3.70)	176 (6.93)	16.1
3TC05-4DD0	D	210 (8.27)	225 (8.86)	150 (5.91)	70 (2.76)	176 (6.93)	10.7
3TC06-2FE0	F	269 (10.59)	300 (11.81)	220 (8.66)	118 (4.65)	224 (8.82)	33.9
3TC07-5ED0	E	248 (9.76)	270 (10.63)	209 (8.23)	101 (3.98)	200 (7.87)	24.9
3TC08-0ED0	E	210 (8.27)	225 (8.86)	150 (5.91)	70 (2.76)	176 (6.93)	10.4
3TC08-8FE0	F	321 (12.64)	350 (13.78)	288 (11.34)	138 (5.43)	264 (10.39)	51.5
3TC14-5FD0	F	321 (12.64)	350 (13.78)	288 (11.34)	138 (5.43)	264 (10.39)	51.5
3TC15-4FD0	F	248 (9.76)	270 (10.63)	209 (8.23)	101 (3.98)	200 (7.87)	24.0



Output chokes
for inverters of frame sizes **FX** and **GX**

Output choke Type 6SL3000-	for inverter Frame size (FS)	Dimensions					Weight (max.) kg
		a	b	c	n ₁	n ₂	
2BE32-1AA0	FX	285 (11.22)	300 (11.81)	257 (10.12)	163 (6.42)	224 (8.82)	60.0
2BE32-6AA0	FX	315 (12.4)	300 (11.81)	277 (10.91)	183 (7.2)	224 (8.82)	66.0
2BE33-2AA0	GX	285 (11.22)	300 (11.81)	257 (10.12)	163 (6.42)	224 (8.82)	62.0
2BE33-8AA0	GX	285 (11.22)	300 (11.81)	277 (10.91)	183 (7.2)	224 (8.82)	73.0
2BE35-0AA0	GX	365 (14.37)	300 (11.81)	277 (10.91)	183 (7.2)	224 (8.82)	100.0

All dimensions in mm (values in brackets are in inches)

Brake resistors

Fig. 1:

Frame sizes A, B
Frame sizes C, D, E, F

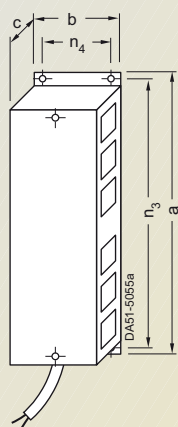


Fig. 2:

Fastening hole: circular hole Ø 5.2 mm
Fastening hole: slotted hole 6 x 12 mm
or circular hole Ø 6.5 mm

*) Circular hole Ø 9 mm
1) Only for SINAMICS G120

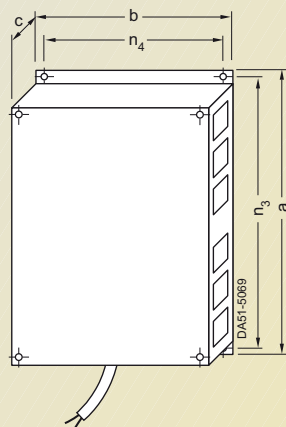
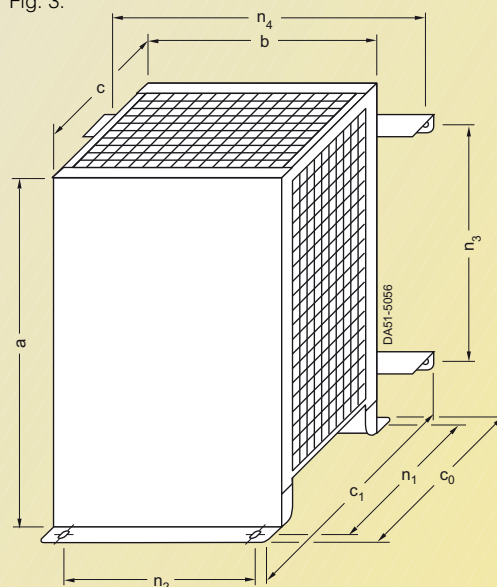


Fig. 3:



Brake resistors Type 6SE6400-	Resistor Ohm	for inverter Frame size (FS)	Figure No.	Dimensions					For floor mounting		For wall mounting		Weight (max.) kg
				a	b	c	c ₀	c ₁	n ₁	n ₂	n ₃	n ₄	
4BC05-0AA0	180	A	1	230 (9.06)	72 (2.83)	43.5 (1.71)	—	—	—	—	217 (8.54)	56 (2.20)	1.0
4BC11-2BA0	68	B	2	239 (9.41)	149 (5.87)	43.5 (1.71)	—	—	—	—	226 (8.90)	133 (5.24)	1.6
4BC12-5CA0	39	C	3	285 (11.22)	185 (7.28)	150 (5.91)	185 (7.28)	217 (8.54)	170 (6.69)	145 (5.71)	200 (7.87)	230 (9.06)	3.8
4BC13-0CA0	27	C	3	285 (11.22)	185 (7.28)	150 (5.91)	185 (7.28)	217 (8.54)	170 (6.69)	145 (5.71)	200 (7.87)	230 (9.06)	3.8
4BC18-0DA0	10	D	3	515 (20.28)	270 (10.63)	175 (6.89)	210 (8.27)	242 (9.53)	195 (7.68)	205 (8.07)	350 (13.78)	315 (12.40)	7.4
4BC21-2EA0	6.8	E	3	645 (25.39)	270 (10.63)	175 (6.89)	210 (8.27)	242 (9.53)	195 (7.68)	205 (8.07)	480 (18.90)	315 (12.40)	10.6
4BC22-5FA0	3.3	F	3	650 (25.59)	395 (15.55)	315 (12.40)	350 (13.78)	382 (15.04)	335 (13.19)	270 (10.63)	510 (20.08)	435 (17.13)	16.7
4BD11-0AA0	390	A	1	230 (9.06)	72 (2.83)	43.5 (1.71)	—	—	—	—	217 (8.54)	56 (2.20)	1.0
4BD12-0BA0	160	B	2	239 (9.41)	149 (5.87)	43.5 (1.71)	—	—	—	—	226 (8.90)	133 (5.24)	1.6
4BD16-5CA0	56	C	3	285 (11.22)	185 (7.28)	150 (5.91)	185 (7.28)	217 (8.54)	170 (6.69)	145 (5.71)	200 (7.87)	230 (9.06)	3.8
4BD21-2DA0	27	D	3	515 (20.28)	270 (10.63)	175 (6.89)	210 (8.27)	242 (9.53)	195 (7.68)	205 (8.07)	350 (13.78)	315 (12.40)	7.4
4BD22-2EA1	15	E *)	3	301 (11.85)	326 (12.83)	484 (19.06)	484 (19.06)	—	380 (14.96)	300 (11.81)	—	—	11.0
4BD24-0FA0	8.2	F	3	650 (25.59)	395 (15.55)	315 (12.40)	350 (13.78)	382 (15.04)	335 (13.19)	270 (10.63)	510 (20.08)	435 (17.13)	16.7
4BD26-0FA0 ¹⁾	5.5	F *)	3	301 (11.85)	526 (20.71)	484 (19.06)	484 (19.06)	—	380 (14.96)	500 (19.69)	—	—	17.5
4BE14-5CA0	120	C	3	285 (11.22)	185 (7.28)	150 (5.91)	185 (7.28)	217 (8.54)	170 (6.69)	145 (5.71)	200 (7.87)	230 (9.06)	3.8
4BE16-5CA0	82	C	3	285 (11.22)	185 (7.28)	150 (5.91)	185 (7.28)	217 (8.54)	170 (6.69)	145 (5.71)	200 (7.87)	230 (9.06)	3.8
4BE21-3DA0	39	D	3	515 (20.28)	270 (10.63)	175 (6.89)	210 (8.27)	242 (9.53)	195 (7.68)	205 (8.07)	350 (13.78)	315 (12.40)	7.4
4BE21-8EA0	27	E	3	645 (25.39)	270 (10.63)	175 (6.89)	210 (8.27)	242 (9.53)	195 (7.68)	205 (8.07)	480 (18.90)	315 (12.40)	10.6
4BE24-2FA0	12	F	3	650 (25.59)	395 (15.55)	315 (12.40)	350 (13.78)	382 (15.04)	335 (13.19)	270 (10.63)	510 (20.08)	435 (17.13)	16.7

Brake resistors for inverters of frame sizes **A** to **F**

All dimensions in mm (values in brackets are in inches)