

(4) Mounting Holes
for M5 [#10] Screws.
See Detail A for top
mounting hole dimensions

Cooling fan
location

Air

Keypad

Nameplate

Air

8.2 [0.32]

Ø5.5 [Ø0.22]

Ø12 [Ø0.47]

Detail A
Top mounting hole dimensions
Scale 1:1

5 [0.20]

2.7 [0.11]

196 [7.72]

6 [0.24]

68 [2.68]

25 [1.00]

4.5 [0.18]

260 [10.24]

248 [9.76]
VERTICAL MTG DIM

42 [1.65]

1 [0.04]

6 [0.24]

38.5 [1.52]

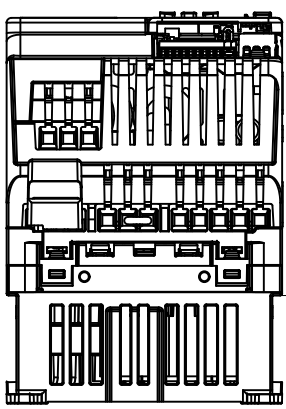
45 [1.77]

9 [0.35]

122 [4.80]
HORIZONTAL MTG DIM

9 [0.35]

140 [5.51]



55 [2.17]

C/C: GA50□	INPUT VOLTAGE (VAC)	WEIGHT Kg (lb)	COOLING FANS
2030□□□	200 TO 240	3.9 (8.6)	1
2042□□□	3-PHASE	4.1 (9.0)	2
4018□□□	380 TO 480	3.9 (8.6)	1
4023□□□	3-PHASE	3.9 (8.6)	1

□ denotes A-Z

YASKAWA



UNITS MM [IN]
SCALE 1:4

DRWN.	J. MATTAS	6-28-19
CHKD.	J. PIOTROWSKI	8-7-19
TECH.	L. UDDIN	9-8-19
APRV.	J. CAIRO	9-18-19

TITLE
GA500 DIMENSION DRAWING
FRAME SIZE 5
IP20 ENCLOSURE WITH EMC FILTER

SIZE A
PAGE 1 OF 4
DWG.NO.
DD.GA50.FR5.IP20.EMC

REV
0

Terminal and Wiring Information for GA50□2030, GA50□4018 and GA50□4023

FRONT VIEW

127 [5.00]

Refer to DD.GA50.CONTROLBOARD drawing for Control Circuit Board details

Base Point of Control Circuit Board

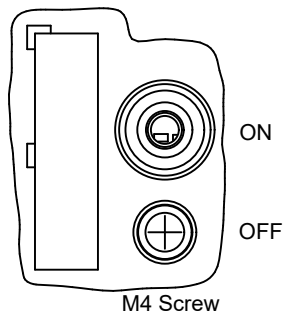
EMC Filter Switch See Detail A

Main Circuit Terminals with M4 Screws; Slotted (-)

158.5 [6.24]

Grounding Terminals with M5 Screws; Phillips(+)/Slotted(-) combo

EMC FILTER SWITCH



Detail A Scale 1:1

BOTTOM VIEW

135 [5.32]

93.4 [3.68]

75.1 [2.96]
(Grounding Terminals)

174.3 [6.86]
(Control Circuit Board)

12.3 [0.48]

2xP10.2=20.3 [0.80]

42.4 [1.67]

2xP10.2=20.3 [0.80]

79 [3.11]

4xP10.2=40.6 [1.60]

C/C: GA50□	TERMINAL SYMBOL	WIRE RANGE AWG (mm ²)	TERMINAL SCREW	CLAMPING TORQUE N.m. (lb.in.)
	R/L1, S/L2, T/L3	14 - 6 (2.5 - 16)	M4	1.7 (15)
2030□□□	U/T1, V/T2, W/T3	14 - 6 (2.5 - 16)	M4	1.7 (15)
4018□□□	-, +1, +2	14 - 6 (2.5 - 16)	M4	1.7 (15)
4023□□□	B1, B2	14 - 6 (2.5 - 16)	M4	1.7 (15)
	⊕	10 - 6 (6 - 16)	M5	2.0 - 2.5 (18 - 22)

□ Denotes A-Z

Note: Refer to applicable codes and standards for proper wire type and size.

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UNITS MM [IN]
SCALE 1:3

DRWN. J. MATTAS 6-28-19
CHKD. J. PIOTROWSKI 8-7-19
TECH. L. UDDIN 9-8-19
APRV. J. CAIRO 9-18-19

TITLE
GA500 DIMENSION DRAWING
FRAME SIZE 5
IP20 ENCLOSURE WITH EMC FILTER

SIZE A PAGE 2 OF 4
DWG.NO. DD.GA50.FR5.IP20.EMC

REV 0

Terminal and Wiring Information for GA50□2042

FRONT VIEW

127 [5.00]

Refer to DD.GA50.CONTROLBOARD drawing for Control Circuit Board details

Base Point of Control Circuit Board

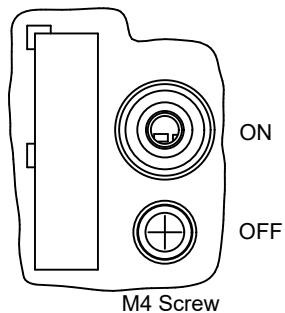
EMC Filter Switch
See Detail A

Main Circuit Terminals with M4 Screws;
Slotted (-)

Main Circuit Terminals with M5 Screws;
Slotted (-)

158.5 [6.24]

EMC FILTER SWITCH



Detail A
Scale 1:1

Grounding Terminals with M5 Screws;
Phillips(+)/Slotted(-) combo

BOTTOM VIEW

135 [5.32]

94.7 [3.73]

93.4 [3.68]

75.1 [2.96]
(Grounding Terminals)

174.3 [6.86]
(Control Circuit Board)

12.3 [0.48]

36.5 [1.44]

80.5 [3.17]

2xP10.2=20.3 [0.80]

2xP15=30 [1.18]

4xP10.2=40.6 [1.60]

C/C: GA50□	TERMINAL SYMBOL	WIRE RANGE AWG (mm ²)	TERMINAL SCREW	CLAMPING TORQUE N.m. (lb.in.)
2042□□□	R/L1, S/L2, T/L3	14 - 6 (2.5 - 16)	M4	1.7 (15)
	U/T1, V/T2, W/T3	14 - 6 (2.5 - 16)	M4	1.7 (15)
	-, +1, +2	8 - 2 (10 - 35)	M5	4.5 (40)
	B1, B2	14 - 6 (2.5 - 16)	M4	1.7 (15)
	⊕	10 - 6 (6 - 16)	M5	2.0 - 2.5 (18 - 22)

□ Denotes A-Z

Note: Refer to applicable codes and standards for proper wire type and size.

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UNITS MM [IN]
SCALE 1:3

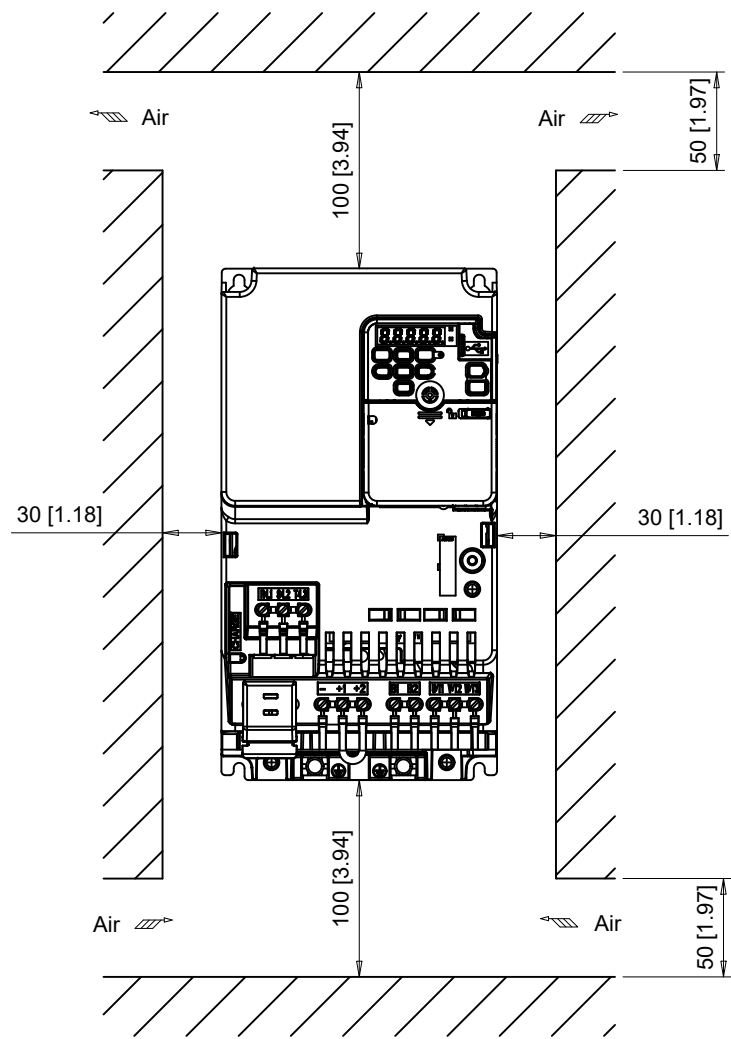
DRWN. J. MATTAS 6-28-19
CHKD. J. PIOTROWSKI 8-7-19
TECH. L. UDDIN 9-8-19
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TITLE
GA500 DIMENSION DRAWING
FRAME SIZE 5
IP20 ENCLOSURE WITH EMC FILTER

SIZE A PAGE 3 OF 4
DWG.NO. DD.GA50.FR5.IP20.EMC

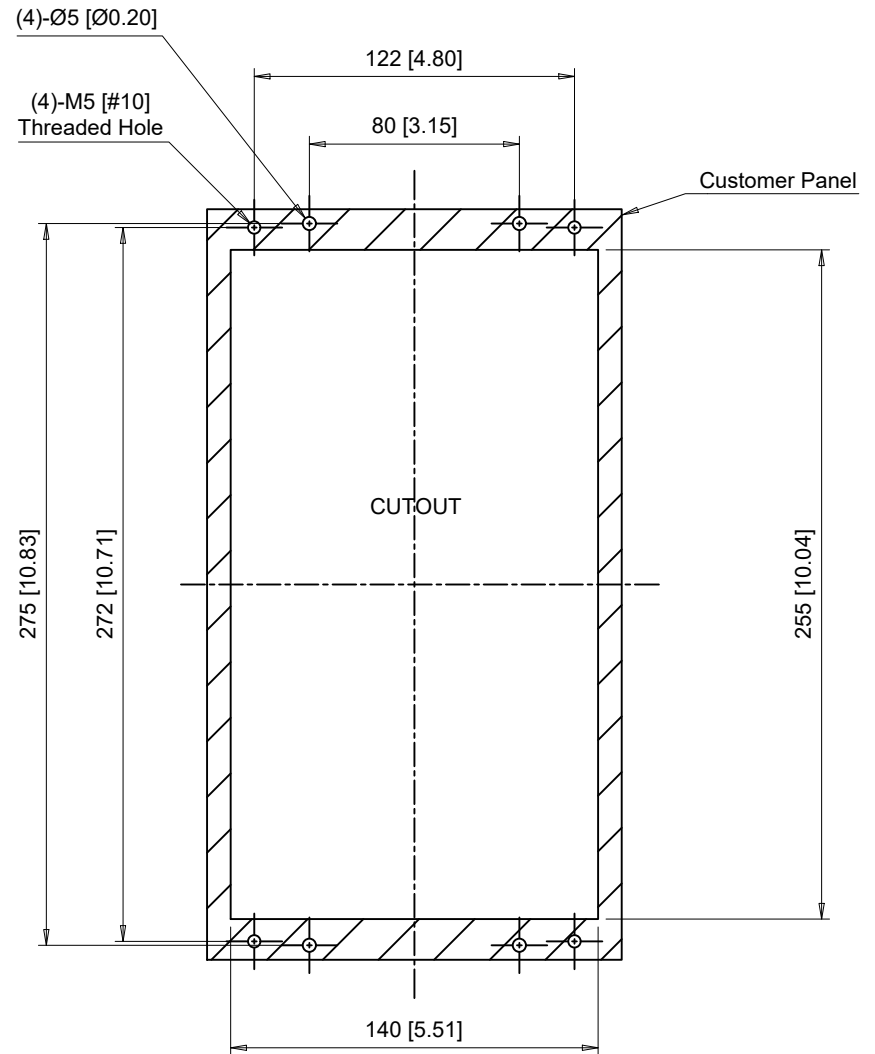
REV 0

Minimum Installation Clearances
Scale 1:4



Note:
For alternate mounting configurations, consult manual.

Panel Cutout
For External Heatsink Mounting Configuration
Scale 1:3



Notes:
Exposed heatsink minimum clearance = 60 [2.36].
Refer to external heatsink instructions document for additional details.

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UNITS MM [IN]
SCALE ABOVE

DRWN.	J. MATTAS	6-28-19
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TECH.	L. UDDIN	9-8-19
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TITLE
GA500 DIMENSION DRAWING
FRAME SIZE 5
IP20 ENCLOSURE WITH EMC FILTER

SIZE A PAGE 4 OF 4
DWG.NO.
DD.GA50.FR5.IP20.EMC

REV
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