

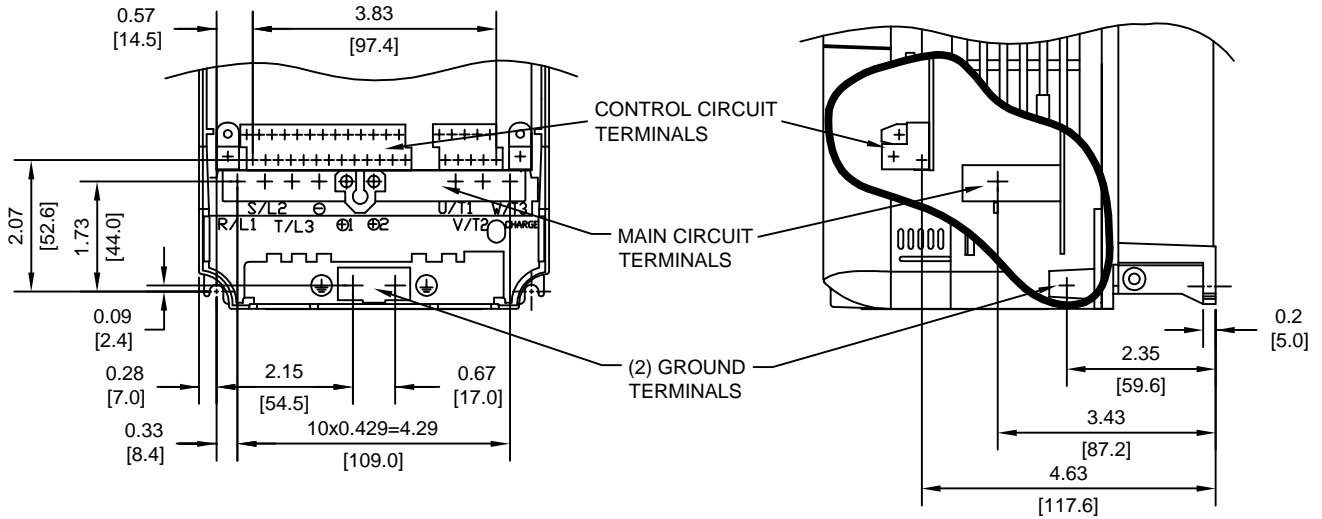
MODEL # CIMR-E7U	VOLTAGE (VAC)	OUTPUT CURRENT (A)	WEIGHT LBS (Kg)	HEAT LOSS (W)		
				INT	EXT	TOTAL
20P4	208/240	3.6	6.6 (3.0)	39	19	58
20P7		4.6	6.6 (3.0)	42	26	68
21P5		7.8	6.6 (3.0)	50	48	98
22P2		10.8	6.6 (3.0)	59	68	127
40P4	480	1.8	6.6 (3.0)	39	14	53
40P7		2.1	6.6 (3.0)	41	17	58
41P5		3.7	6.6 (3.0)	48	36	84

INT=INTERNAL COMPONENTS  
EXT=EXTERNAL HEATSINK

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - -	 <b>YASKAWA</b> <i>A World of Automation Solutions™</i> <b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA <a href="http://www.yaskawa.com">http://www.yaskawa.com</a>	DRAWN: J. MATTAS	DATE <b>4-4-05</b>	TITLE: E7 DIMENSION DRAWING
		CHECKED: M. RUCINSKI	DATE <b>5-3-05</b>	FRAME SIZE 1
		TECH: J. CAIRO	DATE <b>4-7-05</b>	NEMA TYPE 1/IP20 AND IP00
		APPROVED: T. SASADA	DATE <b>6-8-05</b>	E7U20P4 TO 22P2, 40P4 TO 41P5
UNITS: IN[mm]	SCALE: 1:4	ORIGINAL DESIGN: -	DATE -	SIZE A REVISION R00 PAGE 1 of 2 DRAWING #: <b>DD.E7.FR1.N1.01</b>

TERMINAL AND WIRING DETAILS (SCALE 1:3)

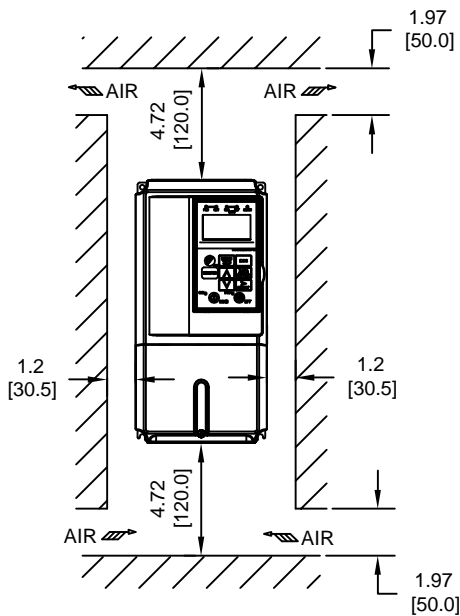


TERMINAL AND WIRE SPECIFICATIONS FOR MAIN CIRCUIT AND GROUND

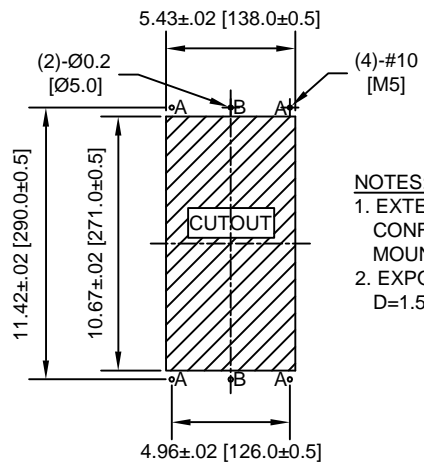
MODEL # CIMR-E7U	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)	WIRE RANGE AWG(mm <sup>2</sup> )
20P4	M4	10.6 TO 13.2 (1.2 TO 1.5)	18-10 (0.82-5.5)
20P7	M4	10.6 TO 13.2 (1.2 TO 1.5)	18-10 (0.82-5.5)
21P5	M4	10.6 TO 13.2 (1.2 TO 1.5)	18-10 (0.82-5.5)
22P2	M4	10.6 TO 13.2 (1.2 TO 1.5)	18-10 (0.82-5.5)
40P4	M4	10.6 TO 13.2 (1.2 TO 1.5)	18-10 (0.82-5.5)
40P7	M4	10.6 TO 13.2 (1.2 TO 1.5)	18-10 (0.82-5.5)
41P5	M4	10.6 TO 13.2 (1.2 TO 1.5)	18-10 (0.82-5.5)

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

MINIMUM INSTALLATION CLEARANCES (SCALE 1:8)



PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:8)



- NOTES:
- EXTERNAL HEATSINK CONFIGURATION REQUIRES MOUNTING KIT
  - EXPOSED HEATSINK DEPTH D=1.54" MINUS PANEL THICKNESS

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

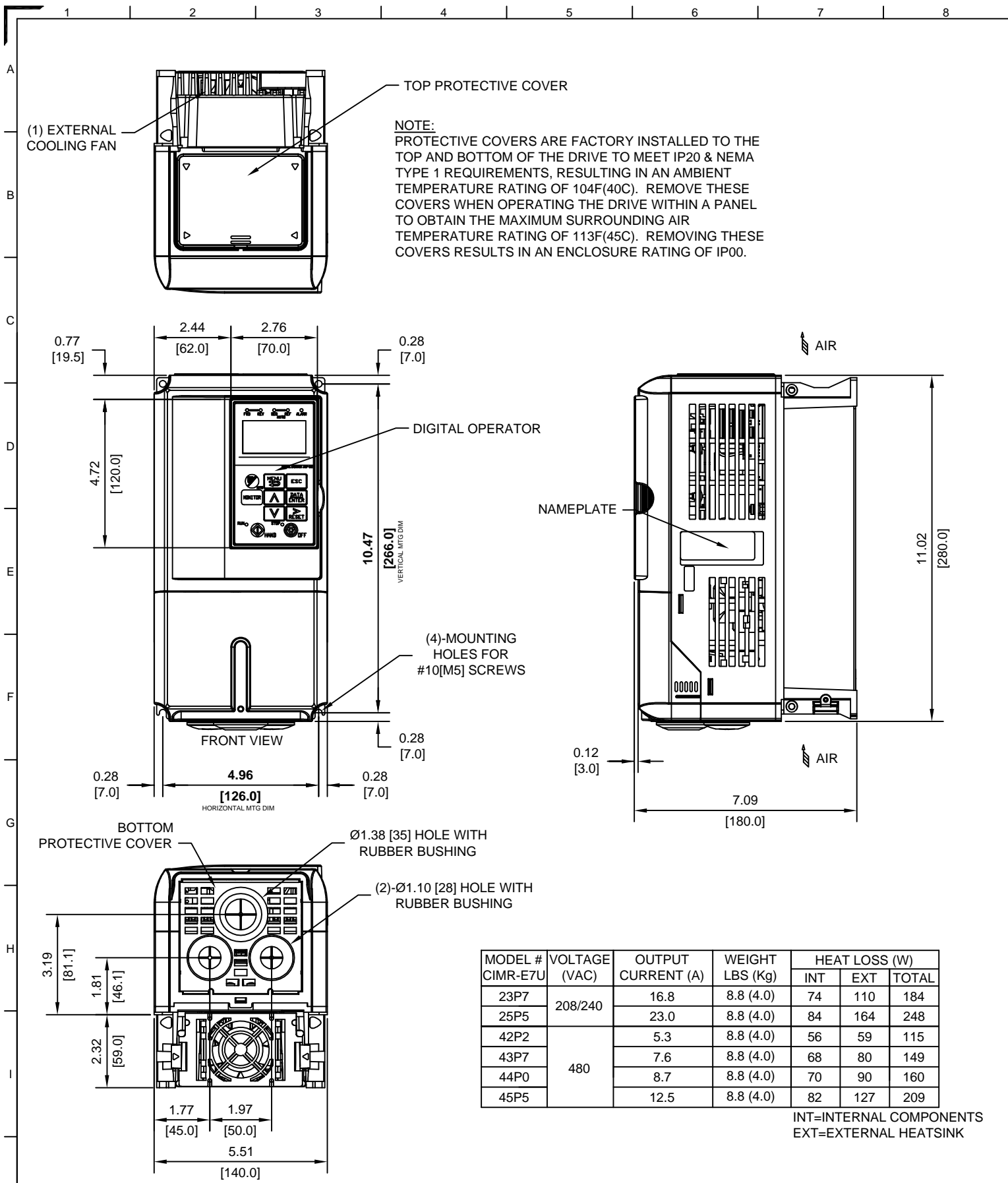
TOLERANCES/REFERENCES:	
UNITS:	SCALE:
IN[mm]	BY VIEW

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DRAWN:	J. MATTAS	DATE:	4-4-05
CHECKED:	M. RUCINSKI	DATE:	5-3-05
TECH:	J. CAIRO	DATE:	4-7-05
APPROVED:	T. SASADA	DATE:	6-8-05
ORIGINAL DESIGN:	-	DATE:	-

TITLE:		
E7 DIMENSION DRAWING		
FRAME SIZE 1		
NEMA TYPE 1/IP20 AND IP00		
E7U20P4 TO 22P2, 40P4 TO 41P5		
SIZE:	REVISION:	PAGE:
A	R00	2 of 2
DRAWING #:		
DD.E7.FR1.N1.01		



**NOTE:**  
 PROTECTIVE COVERS ARE FACTORY INSTALLED TO THE TOP AND BOTTOM OF THE DRIVE TO MEET IP20 & NEMA TYPE 1 REQUIREMENTS, RESULTING IN AN AMBIENT TEMPERATURE RATING OF 104F(40C). REMOVE THESE COVERS WHEN OPERATING THE DRIVE WITHIN A PANEL TO OBTAIN THE MAXIMUM SURROUNDING AIR TEMPERATURE RATING OF 113F(45C). REMOVING THESE COVERS RESULTS IN AN ENCLOSURE RATING OF IP00.

MODEL # CIMR-E7U	VOLTAGE (VAC)	OUTPUT CURRENT (A)	WEIGHT LBS (Kg)	HEAT LOSS (W)		
				INT	EXT	TOTAL
23P7	208/240	16.8	8.8 (4.0)	74	110	184
25P5		23.0	8.8 (4.0)	84	164	248
42P2	480	5.3	8.8 (4.0)	56	59	115
43P7		7.6	8.8 (4.0)	68	80	149
44P0		8.7	8.8 (4.0)	70	90	160
45P5		12.5	8.8 (4.0)	82	127	209

INT=INTERNAL COMPONENTS  
 EXT=EXTERNAL HEATSINK

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES:  
 -  
 -  
 -  
 -  
 -

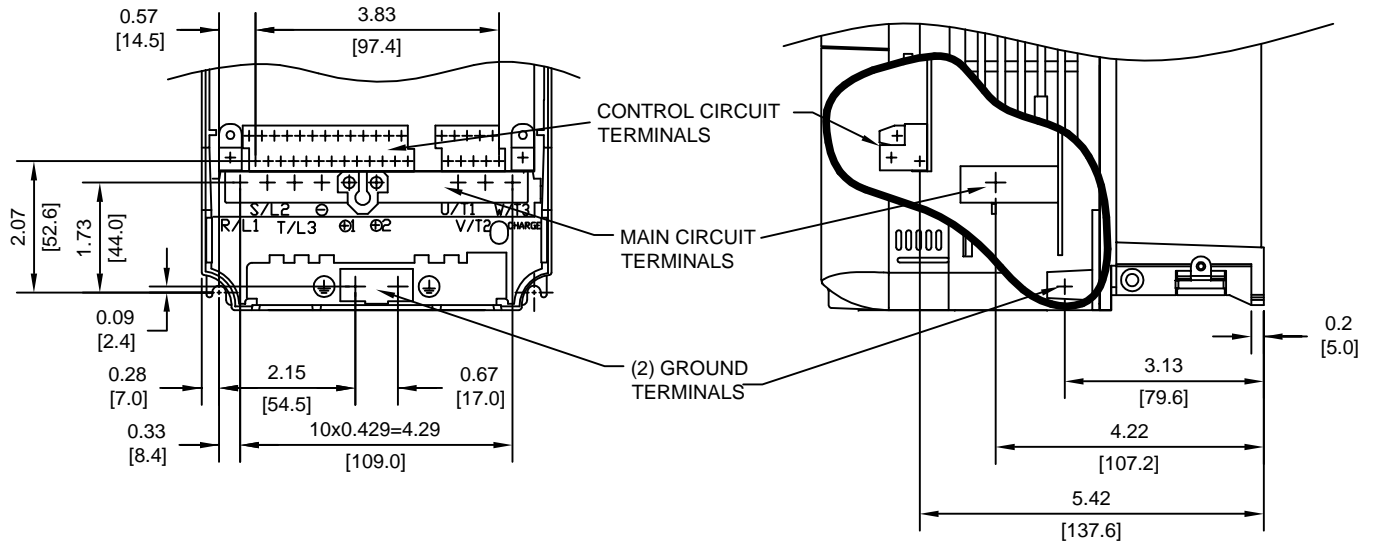
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CHECKED: M. RUCINSKI	DATE 5-3-05
TECH: J. CAIRO	DATE 4-7-05
APPROVED: T. SASADA	DATE 6-8-05
ORIGINAL DESIGN: -	DATE -

TITLE: E7 DIMENSION DRAWING		
FRAME SIZE 2		
NEMA TYPE 1/IP20 AND IP00		
E7U23P7 TO 25P5, 42P2 TO 45P5		
SIZE A	REVISION R00	PAGE 1 of 3
DRAWING # DD.E7.FR2.N1.01		

UNITS: IN[mm]     SCALE: 1:4

TERMINAL AND WIRING DETAILS (SCALE 1:3)




TERMINAL AND WIRE SPECIFICATIONS FOR MAIN CIRCUIT AND GROUND

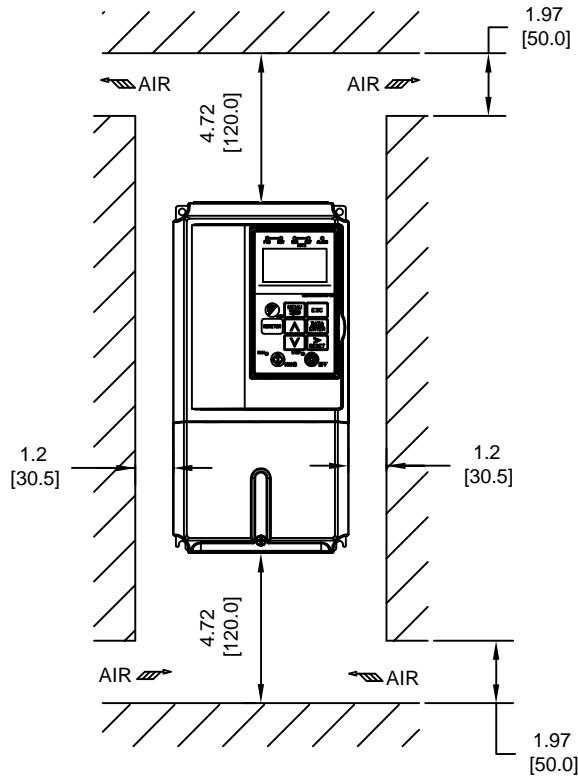
MODEL # CIMR-E7U	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)	WIRE RANGE AWG(mm <sup>2</sup> )
23P7	R/L1, S/L2, T/L3, ⊖, ⊕1, ⊕2, U/T1, V/T2, W/T3, ⊕	M4	10.6 TO 13.2 (1.2 TO 1.5)	18-10 (0.82-5.5)
25P5	R/L1, S/L2, T/L3, ⊖, ⊕1, ⊕2, U/T1, V/T2, W/T3, ⊕	M4	10.6 TO 13.2 (1.2 TO 1.5)	18-10 (0.82-5.5)
42P2	R/L1, S/L2, T/L3, ⊖, ⊕1, ⊕2, U/T1, V/T2, W/T3, ⊕	M4	10.6 TO 13.2 (1.2 TO 1.5)	18-10 (0.82-5.5)
43P7	R/L1, S/L2, T/L3, ⊖, ⊕1, ⊕2, U/T1, V/T2, W/T3, ⊕	M4	10.6 TO 13.2 (1.2 TO 1.5)	18-10 (0.82-5.5)
44P0	R/L1, S/L2, T/L3, ⊖, ⊕1, ⊕2, U/T1, V/T2, W/T3, ⊕	M4	10.6 TO 13.2 (1.2 TO 1.5)	18-10 (0.82-5.5)
45P5	R/L1, S/L2, T/L3, ⊖, ⊕1, ⊕2, U/T1, V/T2, W/T3, ⊕	M4	10.6 TO 13.2 (1.2 TO 1.5)	18-10 (0.82-5.5)

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

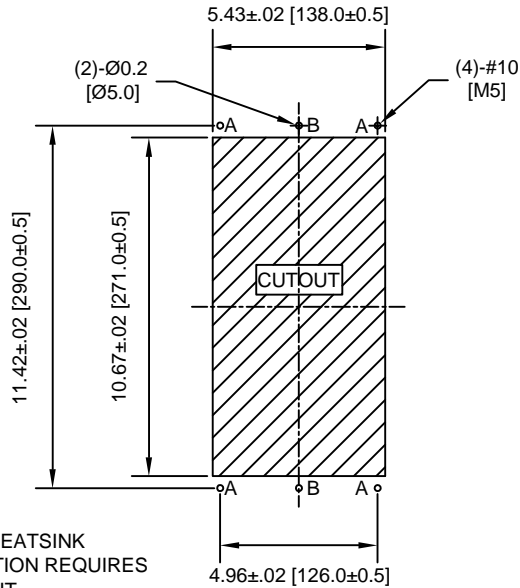
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TOLERANCES/REFERENCES: - - - - -	 <b>YASKAWA</b> <i>A World of Automation Solutions™</i> <b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA <a href="http://www.yaskawa.com">http://www.yaskawa.com</a>	DRAWN: <b>J. MATTAS</b>	DATE: <b>4-4-05</b>	TITLE: <b>E7 DIMENSION DRAWING</b>		
		CHECKED: <b>M. RUCINSKI</b>	DATE: <b>5-3-05</b>	<b>FRAME SIZE 2</b>		
UNITS: <b>IN[mm]</b>	SCALE: <b>BY VIEW</b>	TECH: <b>J. CAIRO</b>	DATE: <b>4-7-05</b>	<b>NEMA TYPE 1/IP20 AND IP00</b>		
		APPROVED: <b>T. SASADA</b>	DATE: <b>6-6-05</b>	SIZE: <b>A</b>	REVISION: <b>R00</b>	PAGE: <b>2 of 3</b>
		ORIGINAL DESIGN: -	DATE: -	<b>DRAWING #:                  DD.E7.FR2.N1.01</b>		

MINIMUM INSTALLATION CLEARANCES (SCALE 1:6)



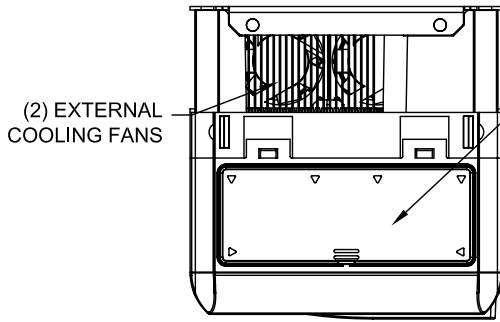
PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:6)



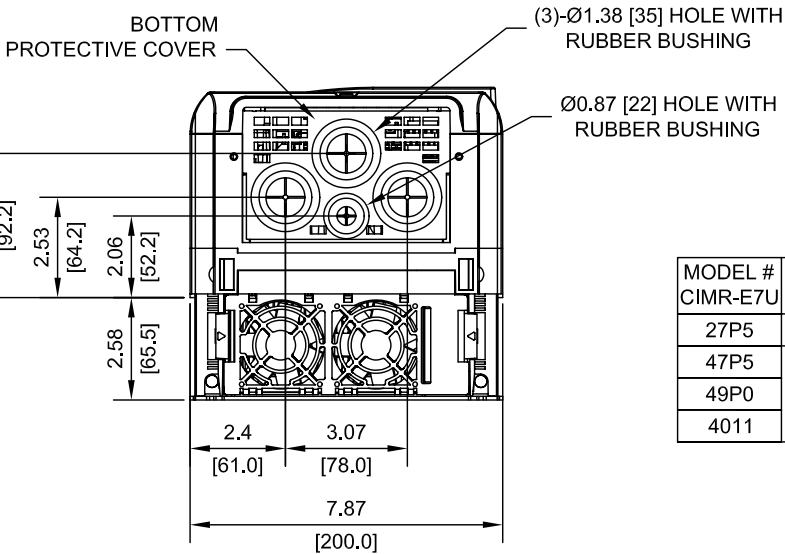
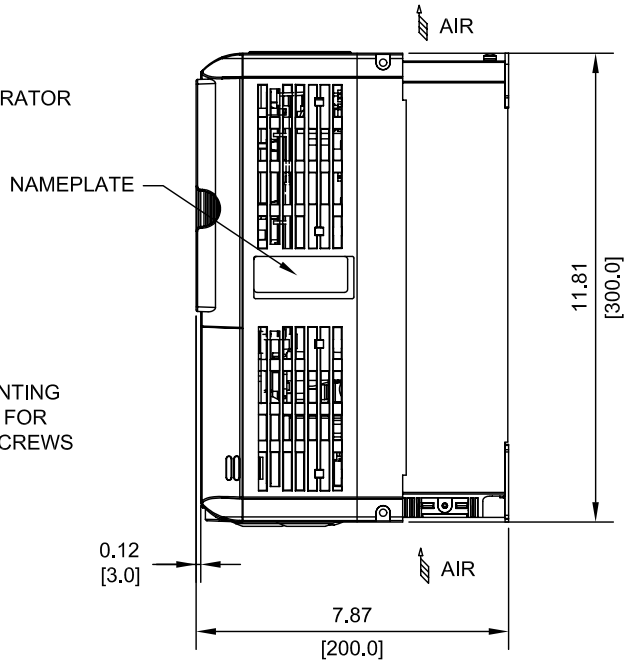
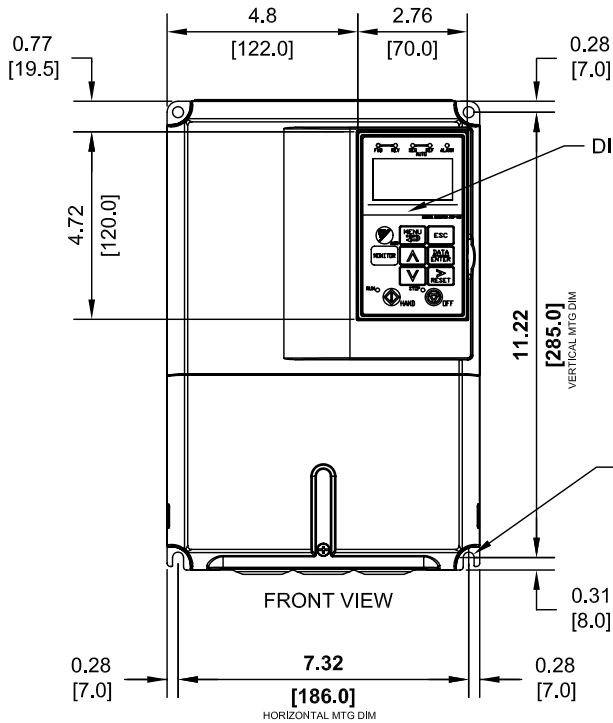
- NOTES:
- EXTERNAL HEATSINK CONFIGURATION REQUIRES MOUNTING KIT
  - EXPOSED HEATSINK DEPTH D=2.32" MINUS PANEL THICKNESS

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - - - -		<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p><b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS DATE 4-4-05	TITLE: E7 DIMENSION DRAWING FRAME SIZE 2 NEMA TYPE 1/IP20 AND IP00 E7U23P7 TO 25P5, 42P2 TO 45P5
UNITS: IN[mm]	SCALE: BY VIEW		CHECKED: M. RUCINSKI DATE 5-3-05	DATE 6-8-05
		TECH: J. CAIRO DATE 4-7-05	SIZE A	REVISION R00
		APPROVED: T. SASADA DATE 6-8-05	ORIGINAL DESIGN: -	PAGE 3 of 3
		DRAWING #: <b>DD.E7.FR2.N1.01</b>		



**NOTE:**  
 PROTECTIVE COVERS ARE FACTORY INSTALLED TO THE TOP AND BOTTOM OF THE DRIVE TO MEET IP20 & NEMA TYPE 1 REQUIREMENTS, RESULTING IN AN AMBIENT TEMPERATURE RATING OF 104F(40C). REMOVE THESE COVERS WHEN OPERATING THE DRIVE WITHIN A PANEL TO OBTAIN THE MAXIMUM SURROUNDING AIR TEMPERATURE RATING OF 113F(45C). REMOVING THESE COVERS RESULTS IN AN ENCLOSURE RATING OF IP00.



MODEL # CIMR-E7U	VOLTAGE (VAC)	OUTPUT CURRENT (A)	WEIGHT LBS (Kg)	HEAT LOSS (W)		
				INT	EXT	TOTAL
27P5	208/240	31.0	13.2 (6.0)	113	219	332
47P5		17.0	13.2 (6.0)	114	193	307
49P0		21.0	13.2 (6.0)	149	197	346
4011		27.0	13.2 (6.0)	158	232	390

INT=INTERNAL COMPONENTS  
 EXT=EXTERNAL HEATSINK

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

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TOLERANCES/REFERENCES:

UNITS:	SCALE:
IN[mm]	1:5

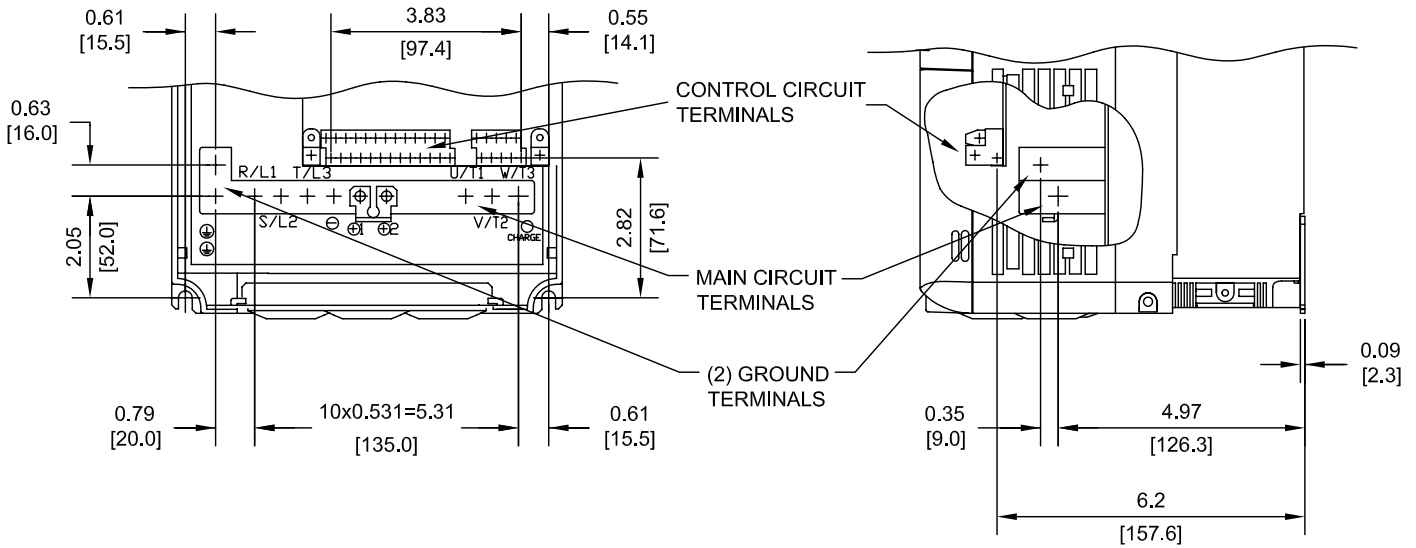
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CHECKED: M. RUCINSKI	DATE 5-3-05
TECH: J. CAIRO	DATE 4-7-05
APPROVED: T. SASADA	DATE 6-6-05
ORIGINAL DESIGN: -	DATE -

TITLE: E7 DIMENSION DRAWING FRAME SIZE 3A NEMA TYPE 1/IP20 AND IP00 E7U27P5, 47P5 TO 4011		
SIZE A	REVISION R01	PAGE 1 of 3
DRAWING #: <b>DD.E7.FR3A.N1.01</b>		

TERMINAL AND WIRING DETAILS (SCALE 1:4)



TERMINAL AND WIRE SPECIFICATIONS FOR  
MAIN CIRCUIT AND GROUND

MODEL # CIMR-E7U	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)	WIRE RANGE AWG(mm <sup>2</sup> )
27P5	R/L1, S/L2, T/L3, ⊖, ⊕1, ⊕2, U/T1, V/T2, W/T3, ⊕	M5	20.4 TO 22.1 (2.3 TO 2.5)	10-6 (5.5-14)
47P5	R/L1, S/L2, T/L3, ⊖, ⊕1, ⊕2, U/T1, V/T2, W/T3	M4	12.1 TO 15.6 (1.4 TO 1.8)	10-6 (5.5-14)
	⊕			12-10 (3.5-5.5)
49P0, 4011	R/L1, S/L2, T/L3, ⊖, ⊕1, ⊕2, U/T1, V/T2, W/T3, ⊕	M5	20.4 TO 22.1 (2.3 TO 2.5)	10-6 (5.5-14)

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

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UNITS: IN[mm]	SCALE: BY VIEW

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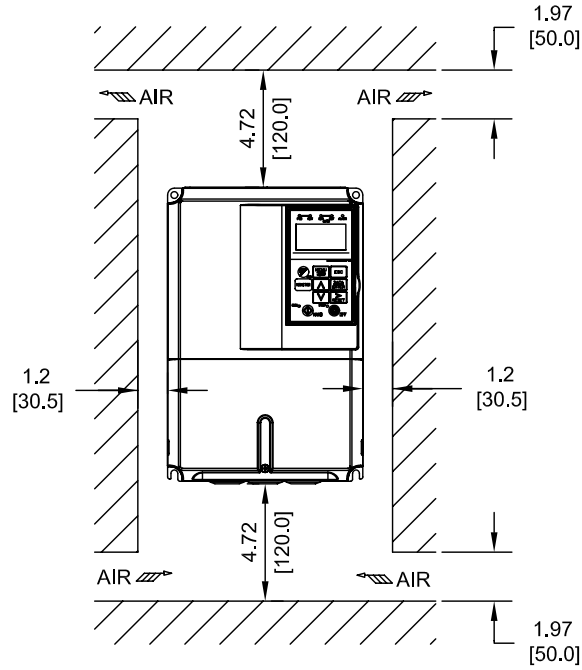
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DRAWN: J. MATTAS	DATE 4-4-05
CHECKED: M. RUCINSKI	DATE 5-3-05
TECH: J. CAIRO	DATE 4-7-05
APPROVED: T. SASADA	DATE 6-6-05
ORIGINAL DESIGN: -	DATE -

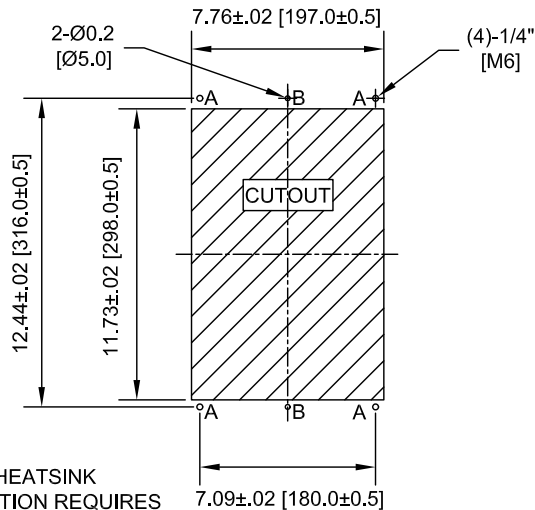
TITLE: E7 DIMENSION DRAWING FRAME SIZE 3A NEMA TYPE 1/IP20 AND IP00 E7U27P5, 47P5 TO 4011		
SIZE A	REVISION R01	PAGE 2 of 3
DRAWING #: <b>DD.E7.FR3A.N1.01</b>		

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

MINIMUM INSTALLATION CLEARANCES (SCALE 1:8)



PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:8)



NOTES:

1. EXTERNAL HEATSINK CONFIGURATION REQUIRES MOUNTING KIT
2. EXPOSED HEATSINK DEPTH  $D=2.58$ " MINUS PANEL THICKNESS

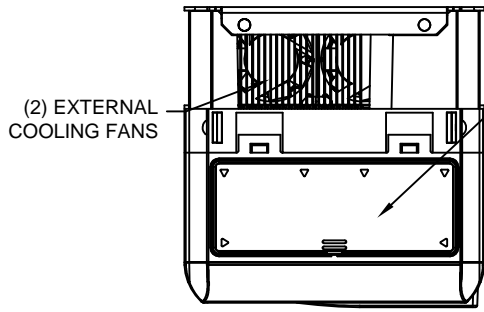
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UNITS: IN[mm]			SCALE: BY VIEW	CHECKED: M. RUCINSKI		DATE 5-3-05	SIZE A
			TECH: J. CAIRO	DATE 4-7-05	DRAWING #: <b>DD.E7.FR3A.N1.01</b>		
			APPROVED: T. SASADA	DATE 6-6-05			
			ORIGINAL DESIGN: -	DATE -			

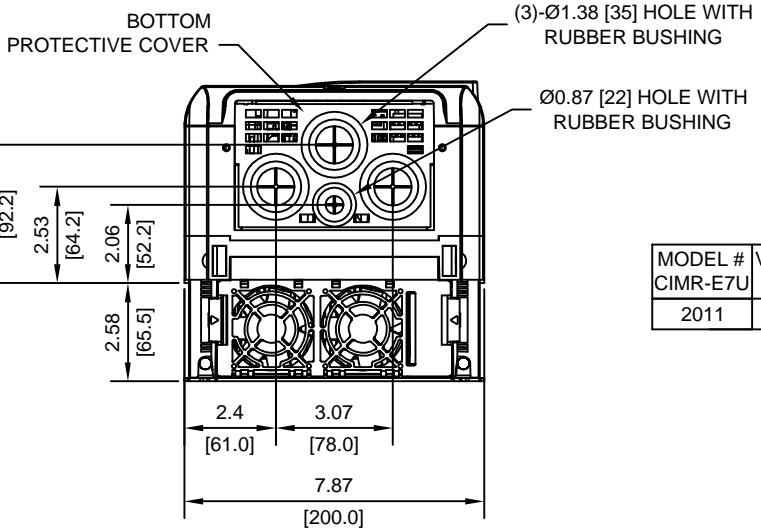
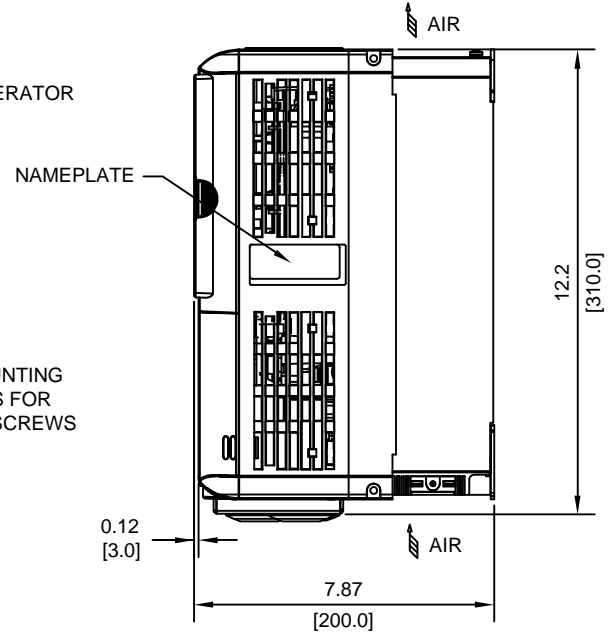
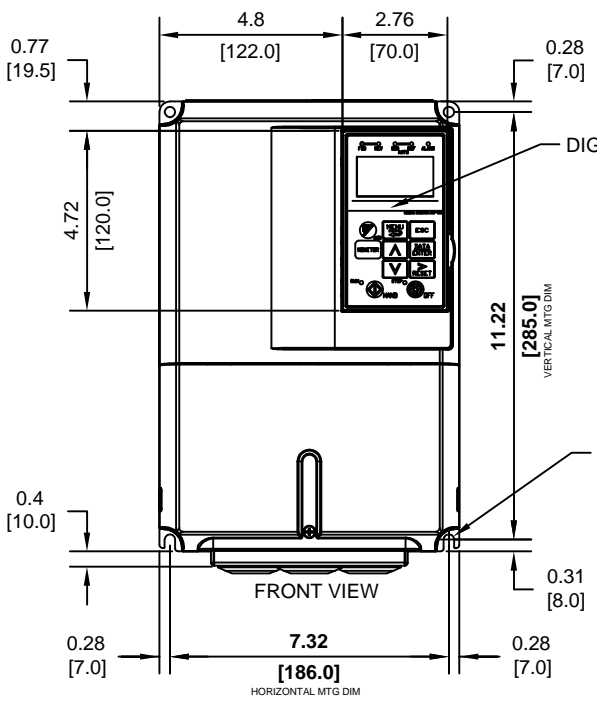




TOP PROTECTIVE COVER

(2) EXTERNAL COOLING FANS

**NOTE:**  
 PROTECTIVE COVERS ARE FACTORY INSTALLED TO THE TOP AND BOTTOM OF THE DRIVE TO MEET IP20 & NEMA TYPE 1 REQUIREMENTS, RESULTING IN AN AMBIENT TEMPERATURE RATING OF 104F(40C). REMOVE THESE COVERS WHEN OPERATING THE DRIVE WITHIN A PANEL TO OBTAIN THE MAXIMUM SURROUNDING AIR TEMPERATURE RATING OF 113F(45C). REMOVING THESE COVERS RESULTS IN AN ENCLOSURE RATING OF IP00.



MODEL #	VOLTAGE (VAC)	OUTPUT CURRENT (A)	WEIGHT LBS (Kg)	HEAT LOSS (W)		
				INT	EXT	TOTAL
CIMR-E7U 2011	208/240	46.2	15.4 (7.0)	168	357	524

INT=INTERNAL COMPONENTS  
 EXT=EXTERNAL HEATSINK

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES:  
 -  
 -  
 -  
 -  
 -  
 -  
 -  
 -

UNITS: IN[mm]  
 SCALE: 1:5

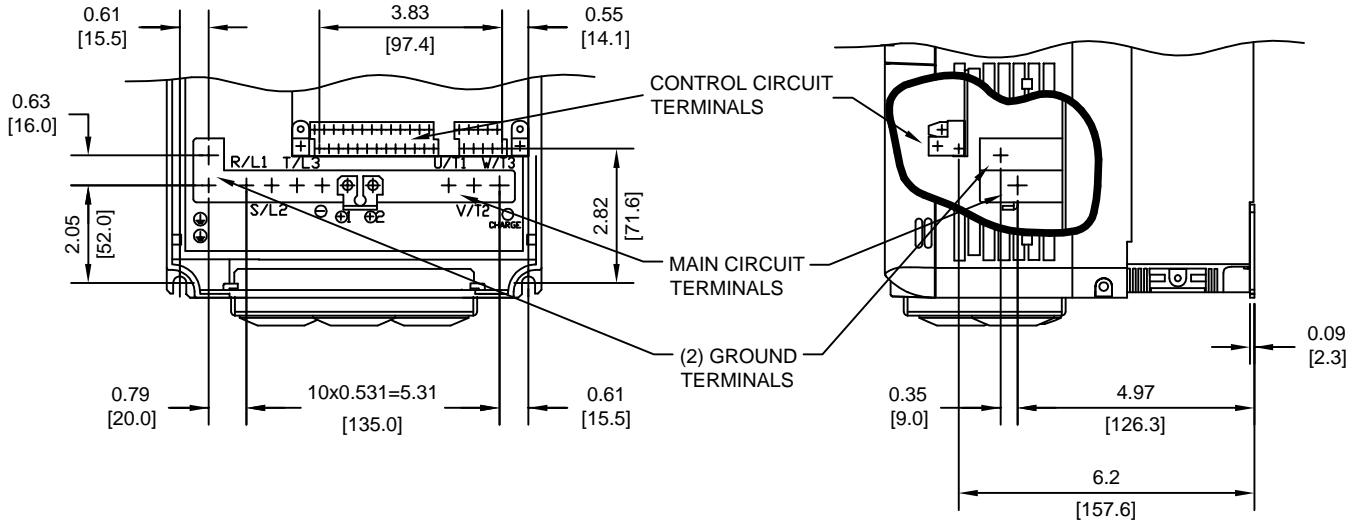
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CHECKED: M. RUCINSKI	DATE 5-3-05
TECH: J. CAIRO	DATE 4-7-05
APPROVED: T. SASADA	DATE 6-8-05
ORIGINAL DESIGN: -	DATE -

TITLE: E7 DIMENSION DRAWING FRAME SIZE 3B NEMA TYPE 1/IP20 AND IP00 E7U2011		
SIZE A	REVISION R00	PAGE 1 of 3
DRAWING #: <b>DD.E7.FR3B.N1.01</b>		

TERMINAL AND WIRING DETAILS (SCALE 1:4)



TERMINAL AND WIRE SPECIFICATIONS FOR  
MAIN CIRCUIT AND GROUND

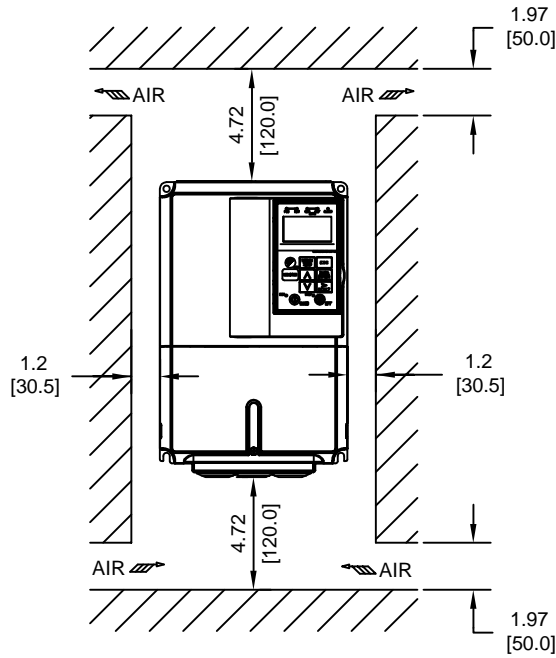
MODEL #	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)	WIRE RANGE AWG(mm <sup>2</sup> )
CIMR-E7U				
2011	R/L1, S/L2, T/L3, ⊙, ⊕1, ⊕2, U/T1, V/T2, W/T3, ⊕	M5	20.4 TO 22.1 (2.3 TO 2.5)	10-4 (5.5-22)

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

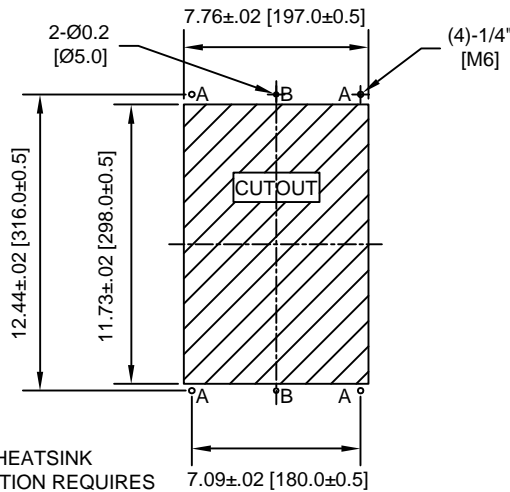
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: -		<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p><b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS DATE 4-6-05	TITLE: E7 DIMENSION DRAWING FRAME SIZE 3B NEMA TYPE 1/IP20 AND IP00 E7U2011		
UNITS: IN[mm]	SCALE: BY VIEW		CHECKED: M. RUCINSKI DATE 5-3-05	TECH: J. CAIRO DATE 4-7-05	SIZE A	REVISION R00
			APPROVED: T. SASADA DATE 6-6-05	DRAWING #: DD.E7.FR3B.N1.01		
			ORIGINAL DESIGN: -			

MINIMUM INSTALLATION CLEARANCES (SCALE 1:8)



PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:8)

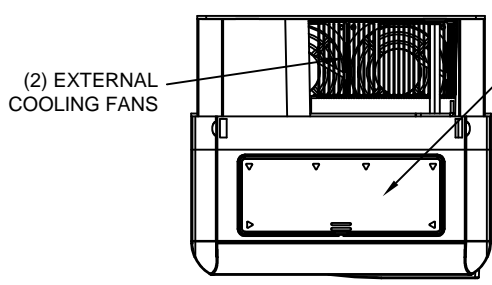


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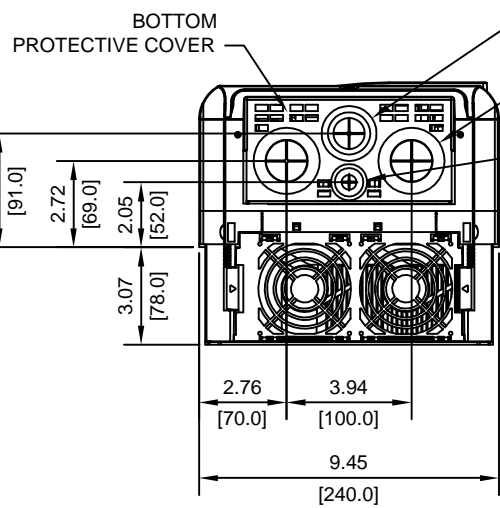
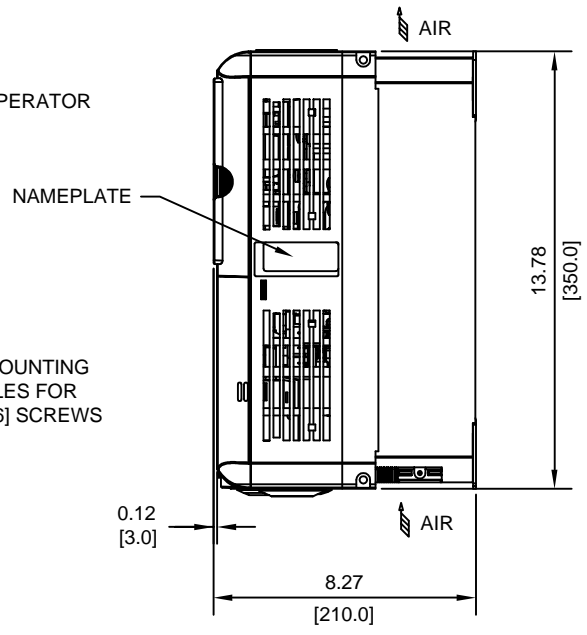
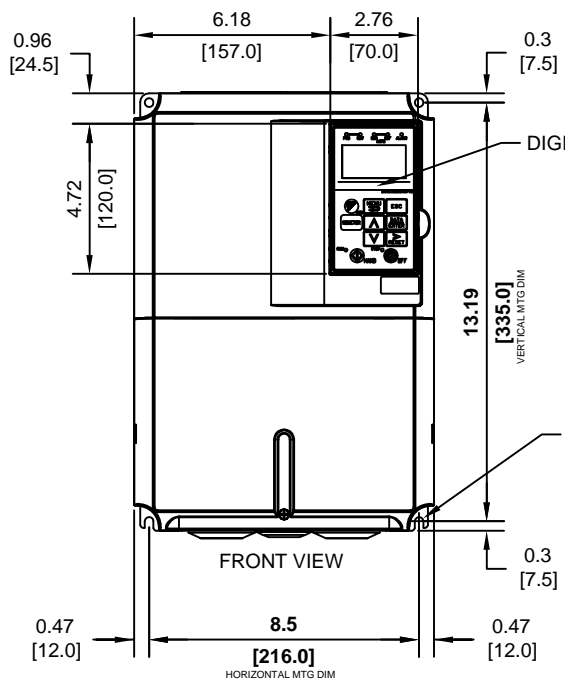
1. EXTERNAL HEATSINK CONFIGURATION REQUIRES MOUNTING KIT
2. EXPOSED HEATSINK DEPTH D=2.58" MINUS PANEL THICKNESS

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - - - - - - -		<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p><b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS	DATE 4-6-05	TITLE: E7 DIMENSION DRAWING		
UNITS: IN[mm]	SCALE: BY VIEW		CHECKED: M. RUCINSKI	DATE 5-3-05	FRAME SIZE 3B NEMA TYPE 1/IP20 AND IP00		
			TECH: J. CAIRO	DATE 4-7-05	E7U2011		
			APPROVED: T. SASADA	DATE 6-6-05	SIZE A	REVISION R00	PAGE 3 of 3
			ORIGINAL DESIGN: -	DATE -	DRAWING #: <b>DD.E7.FR3B.N1.01</b>		



**NOTE:**  
 PROTECTIVE COVERS ARE FACTORY INSTALLED TO THE TOP AND BOTTOM OF THE DRIVE TO MEET IP20 & NEMA TYPE 1 REQUIREMENTS, RESULTING IN AN AMBIENT TEMPERATURE RATING OF 104F(40C). REMOVE THESE COVERS WHEN OPERATING THE DRIVE WITHIN A PANEL TO OBTAIN THE MAXIMUM SURROUNDING AIR TEMPERATURE RATING OF 113F(45C). REMOVING THESE COVERS RESULTS IN AN ENCLOSURE RATING OF IP00.



MODEL #	VOLTAGE (VAC)	OUTPUT CURRENT (A)	WEIGHT LBS (Kg)	HEAT LOSS (W)		
				INT	EXT	TOTAL
2015	208/240	59.4	24.2 (11.0)	182	416	598
4018	480	40.0	22.0 (10.0)	201	389	590

INT=INTERNAL COMPONENTS  
 EXT=EXTERNAL HEATSINK

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES:

UNITS: IN[mm]

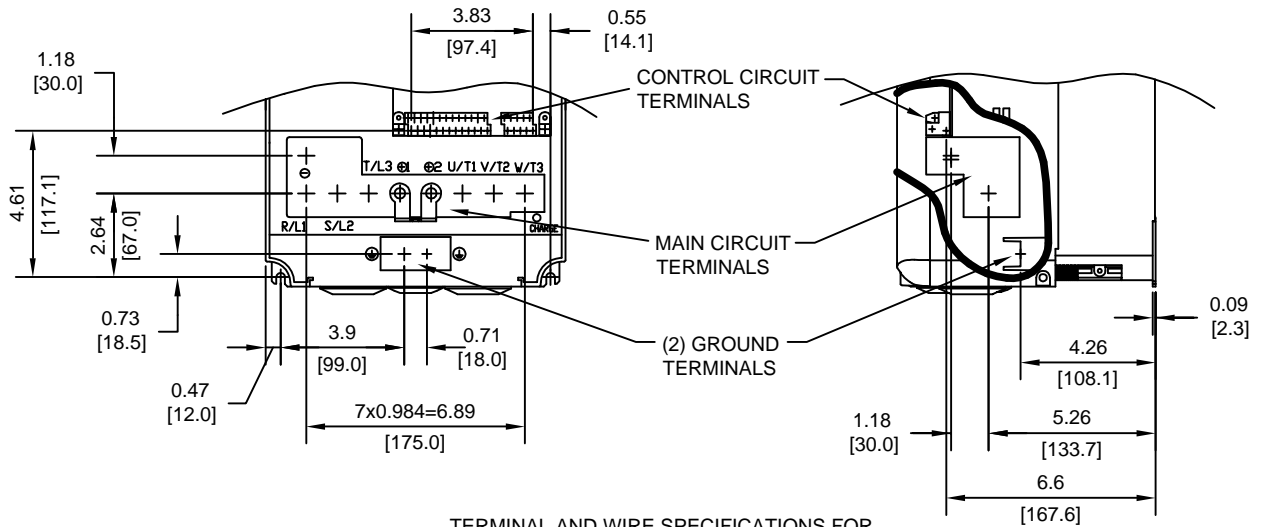
SCALE: 1:6

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DRAWN: J. MATTAS	DATE: 4-6-05	TITLE: E7 DIMENSION DRAWING		
CHECKED: M. RUCINSKI	DATE: 5-3-05	FRAME SIZE 4A		
TECH: J. CAIRO	DATE: 4-7-05	NEMA TYPE 1/IP20 AND IP00		
APPROVED: T. SASADA	DATE: 6-8-05	SIZE: A	REVISION: R00	PAGE: 1 of 2
ORIGINAL DESIGN: -	DATE: -	DRAWING #: DD.E7.FR4A.N1.01		

TERMINAL AND WIRING DETAILS (SCALE 1:6)

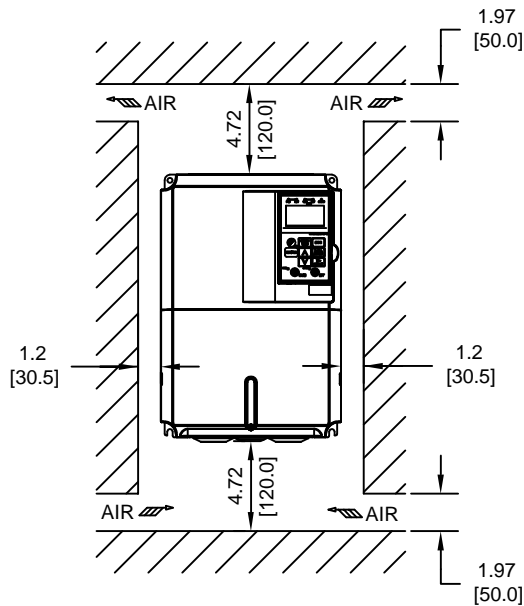


TERMINAL AND WIRE SPECIFICATIONS FOR MAIN CIRCUIT AND GROUND

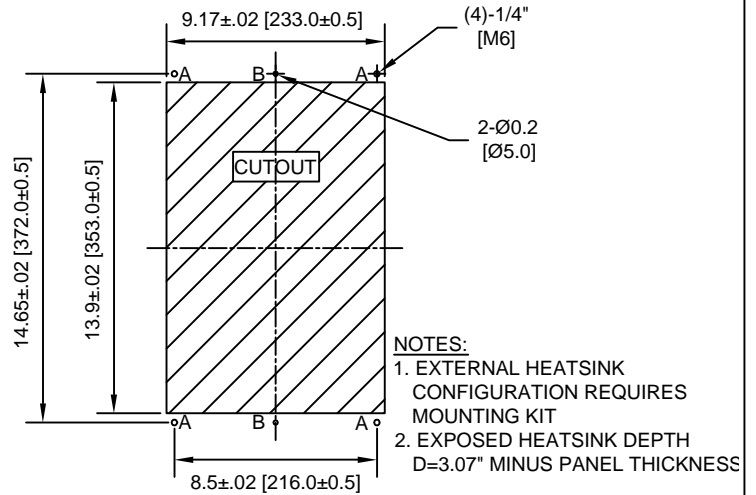
MODEL # CIMR-E7U	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)	WIRE RANGE AWG(mm <sup>2</sup> )
2015	R/L1, S/L2, T/L3, ⊖, ⊕1, ⊕2, U/T1, V/T2, W/T3	M6	35.2 TO 44.0 (4.0 TO 5.0)	8-1 (8-50)
	⊕	M6	35.2 TO 44.0 (4.0 TO 5.0)	SEE NOTE
4018	R/L1, S/L2, T/L3, ⊖, ⊕1, ⊕2, U/T1, V/T2, W/T3	M6	35.2 TO 44.0 (4.0 TO 5.0)	8-1 (8-50)
	⊕	M6	35.2 TO 44.0 (4.0 TO 5.0)	SEE NOTE

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

MINIMUM INSTALLATION CLEARANCES (SCALE 1:10)



PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:8)



- NOTES:
- EXTERNAL HEATSINK CONFIGURATION REQUIRES MOUNTING KIT
  - EXPOSED HEATSINK DEPTH D=3.07" MINUS PANEL THICKNESS

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES:

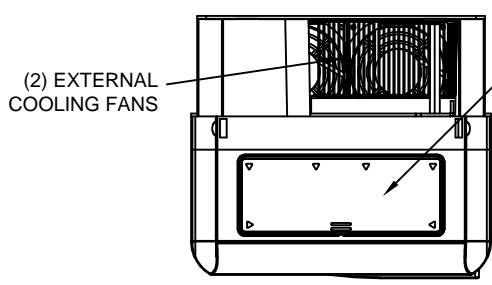
UNITS: IN[mm]

SCALE: BY VIEW

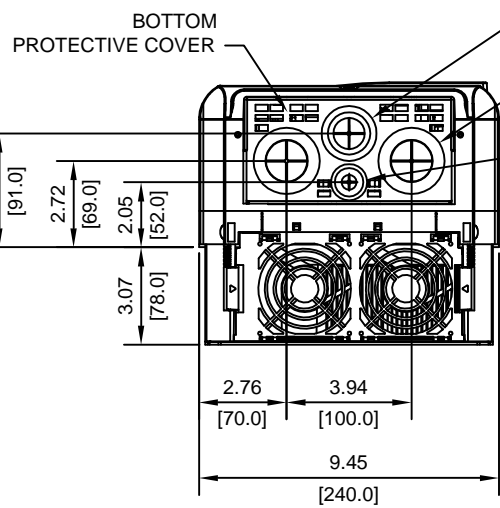
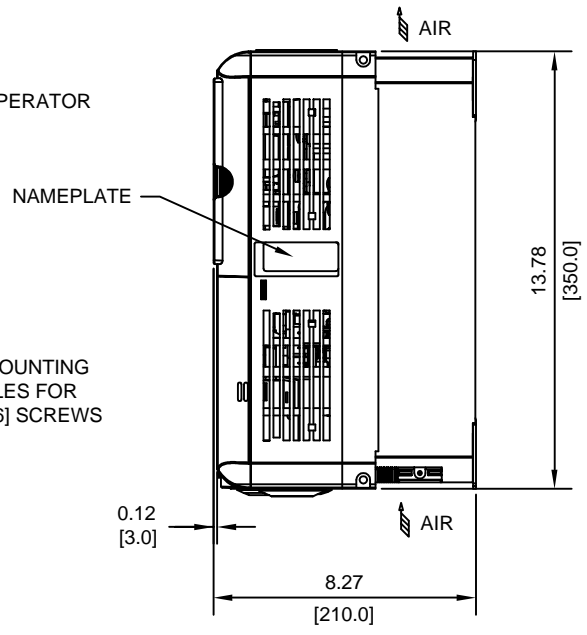
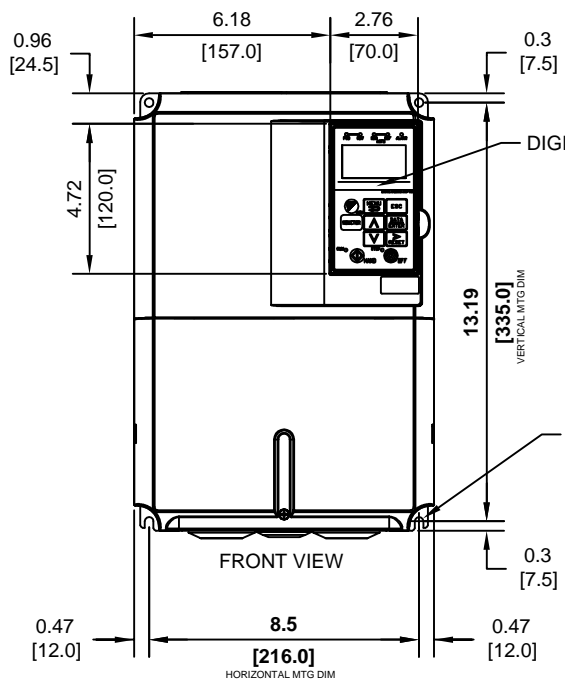
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DRAWN: J. MATTAS	DATE 4-6-05	TITLE: E7 DIMENSION DRAWING	
CHECKED: M. RUCINSKI	DATE 5-3-05	FRAME SIZE 4A	
TECH: J. CAIRO	DATE 4-7-05	NEMA TYPE 1/IP20 AND IP00	
APPROVED: T. SASADA	DATE 6-8-05	SIZE A	REVISION R00
ORIGINAL DESIGN: -	DATE -	PAGE 2 of 2	
DRAWING #: <b>DD.E7.FR4A.N1.01</b>			



**NOTE:**  
 PROTECTIVE COVERS ARE FACTORY INSTALLED TO THE TOP AND BOTTOM OF THE DRIVE TO MEET IP20 & NEMA TYPE 1 REQUIREMENTS, RESULTING IN AN AMBIENT TEMPERATURE RATING OF 104F(40C). REMOVE THESE COVERS WHEN OPERATING THE DRIVE WITHIN A PANEL TO OBTAIN THE MAXIMUM SURROUNDING AIR TEMPERATURE RATING OF 113F(45C). REMOVING THESE COVERS RESULTS IN AN ENCLOSURE RATING OF IP00.



MODEL #	VOLTAGE (VAC)	OUTPUT CURRENT (A)	WEIGHT LBS (Kg)	HEAT LOSS (W)		
				INT	EXT	TOTAL
CIMR-E7U 4015	480	34.0	22.0 (10.0)	169	296	465

INT=INTERNAL COMPONENTS  
 EXT=EXTERNAL HEATSINK

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES:  
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UNITS: IN[mm]

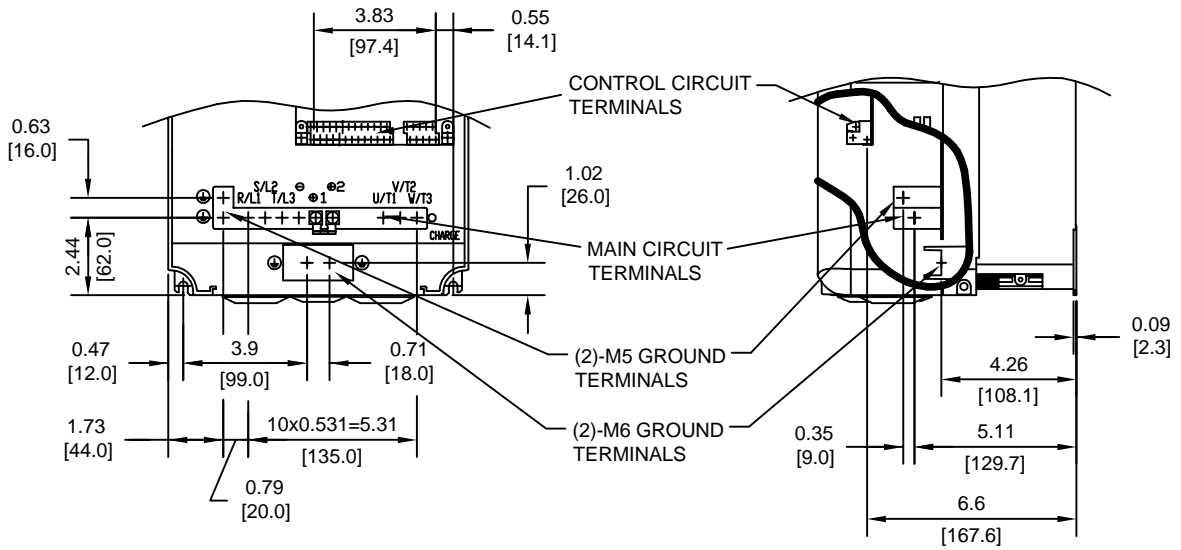
SCALE: 1:6

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DRAWN: J. MATTAS	DATE 4-6-05	TITLE: E7 DIMENSION DRAWING		
CHECKED: M. RUCINSKI	DATE 5-3-05	FRAME SIZE 4B		
TECH: J. CAIRO	DATE 4-7-05	NEMA TYPE 1/IP20 AND IP00		
APPROVED: T. SASADA	DATE 6-8-05	SIZE A	REVISION R00	PAGE 1 of 2
ORIGINAL DESIGN: -	DATE -	DRAWING #: DD.E7.FR4B.N1.01		

TERMINAL AND WIRING DETAILS (SCALE 1:6)

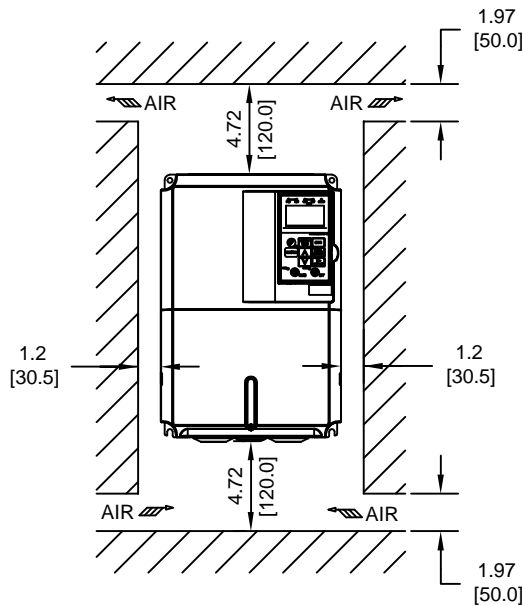


TERMINAL AND WIRE SPECIFICATIONS FOR MAIN CIRCUIT AND GROUND

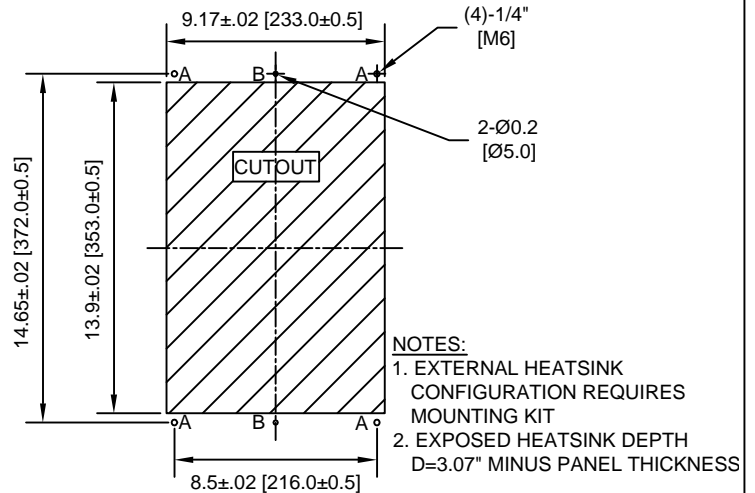
MODEL # CIMR-E7U	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)	WIRE RANGE AWG(mm <sup>2</sup> )
4015	R/L1, S/L2, T/L3, U, U1, U2, U/T1, V/T2, W/T3	M5	20.4 TO 22.0 (2.3 TO 2.5)	10-6 (5.5-14)
	⊕	M5	20.4 TO 22.0 (2.3 TO 2.5)	10-6 (5.5-14)
		M6	35.2 TO 44.0 (4.0 TO 5.0)	10-6 (5.5-14)

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

MINIMUM INSTALLATION CLEARANCES (SCALE 1:10)

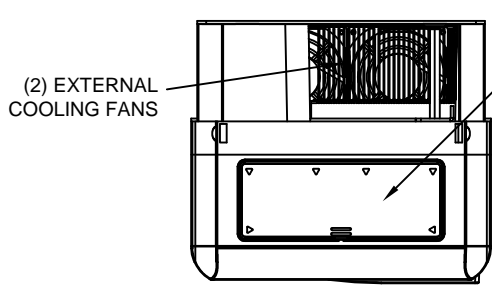


PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:8)



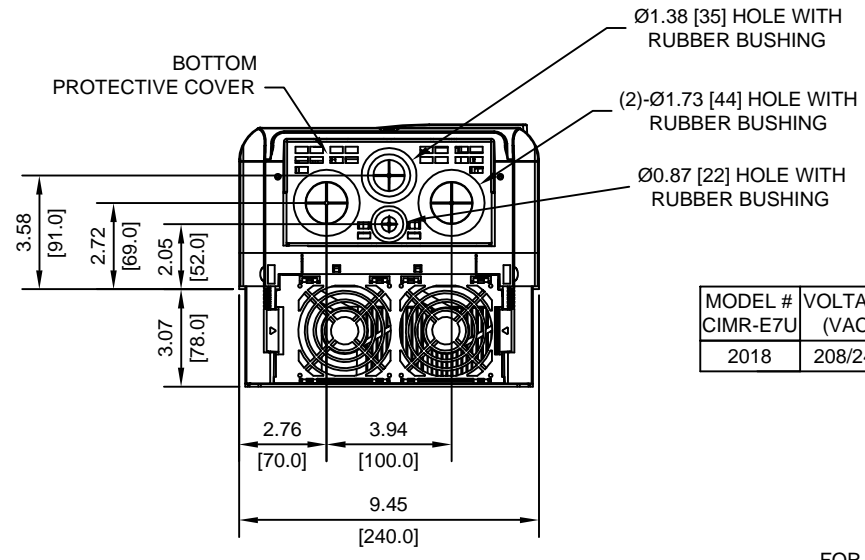
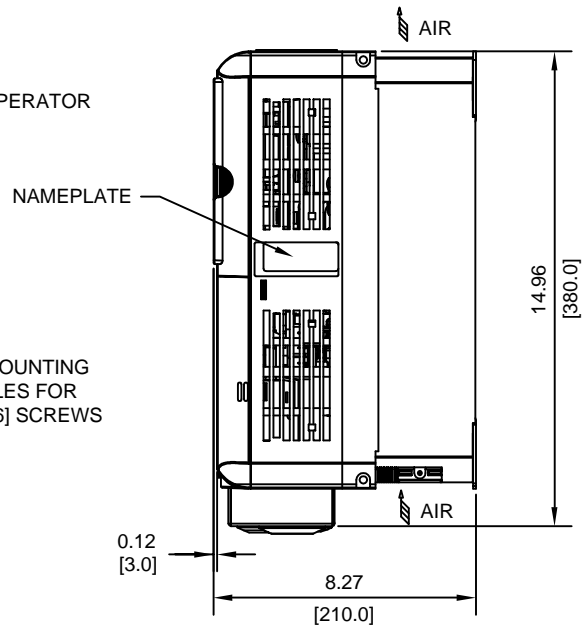
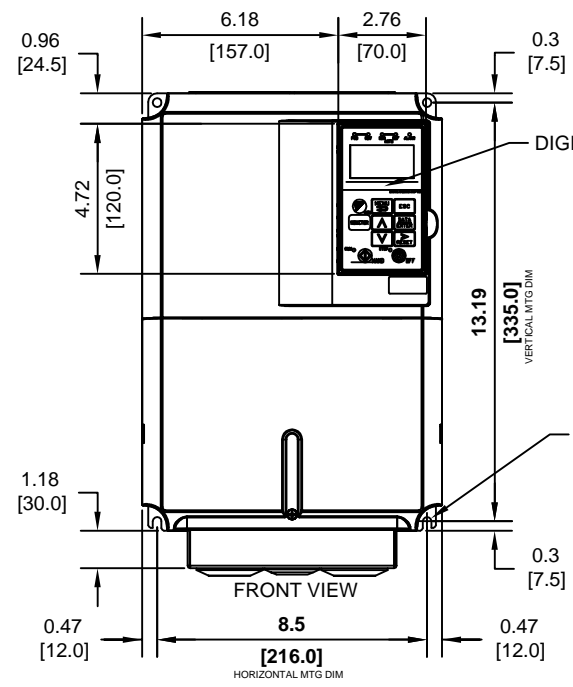
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TOLERANCES/REFERENCES: -	<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p>YASKAWA ELECTRIC AMERICA, INC. Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS DATE: 4-6-05	TITLE: E7 DIMENSION DRAWING FRAME SIZE 4B NEMA TYPE 1/IP20 AND IP00 E7U4015
		CHECKED: M. RUCINSKI DATE: 5-3-05	DATE: 6-8-05
UNITS: IN[mm]	SCALE: BY VIEW	TECH: J. CAIRO DATE: 4-7-05	DRAWING #: DD.E7.FR4B.N1.01
		APPROVED: T. SASADA DATE: 6-8-05	
		ORIGINAL DESIGN: -	



TOP PROTECTIVE COVER

**NOTE:**  
 PROTECTIVE COVERS ARE FACTORY INSTALLED TO THE TOP AND BOTTOM OF THE DRIVE TO MEET IP20 & NEMA TYPE 1 REQUIREMENTS, RESULTING IN AN AMBIENT TEMPERATURE RATING OF 104F(40C). REMOVE THESE COVERS WHEN OPERATING THE DRIVE WITHIN A PANEL TO OBTAIN THE MAXIMUM SURROUNDING AIR TEMPERATURE RATING OF 113F(45C). REMOVING THESE COVERS RESULTS IN AN ENCLOSURE RATING OF IP00.



MODEL #	VOLTAGE (VAC)	OUTPUT CURRENT (A)	WEIGHT LBS (Kg)	HEAT LOSS (W)		
				INT	EXT	TOTAL
2018	208/240	74.8	24.2 (11.0)	208	472	680

INT=INTERNAL COMPONENTS  
 EXT=EXTERNAL HEATSINK

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES:  
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UNITS: IN[mm]  
 SCALE: 1:6

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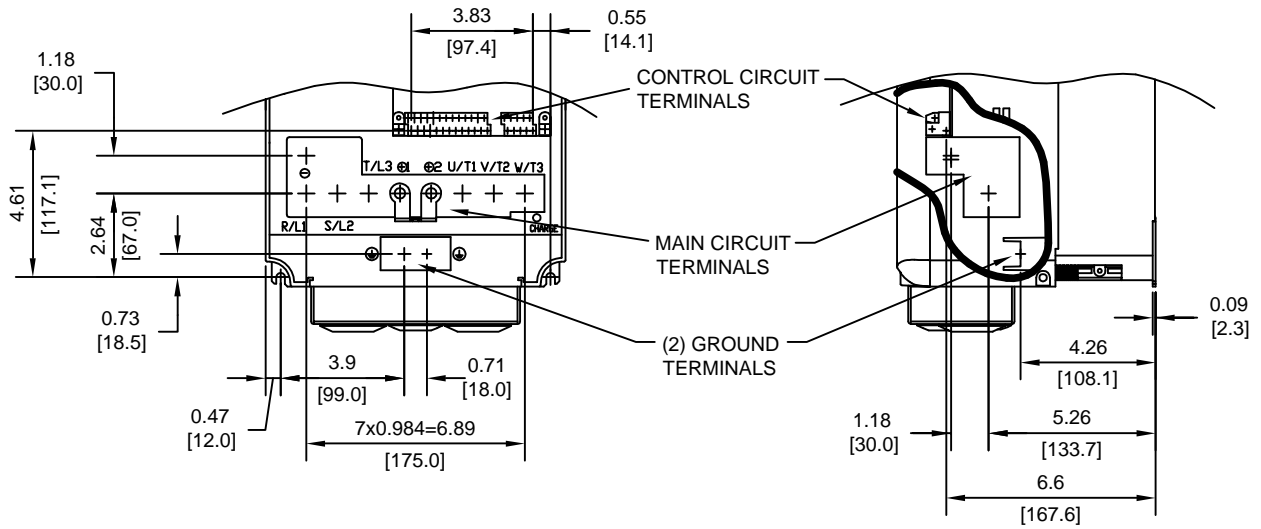
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 http://www.yaskawa.com

DRAWN: J. MATTAS  
 CHECKED: M. RUCINSKI  
 TECH: J. CAIRO  
 APPROVED: T. SASADA  
 ORIGINAL DESIGN: -

DATE	TITLE	SIZE	REVISION	PAGE
4-6-05	E7 DIMENSION DRAWING	A	R00	1 of 2
5-3-05	FRAME SIZE 4C			
4-7-05	NEMA TYPE 1/IP20 AND IP00			
6-8-05	E7U2018			
	DRAWING #:			
	<b>DD.E7.FR4C.N1.01</b>			



TERMINAL AND WIRING DETAILS (SCALE 1:6)

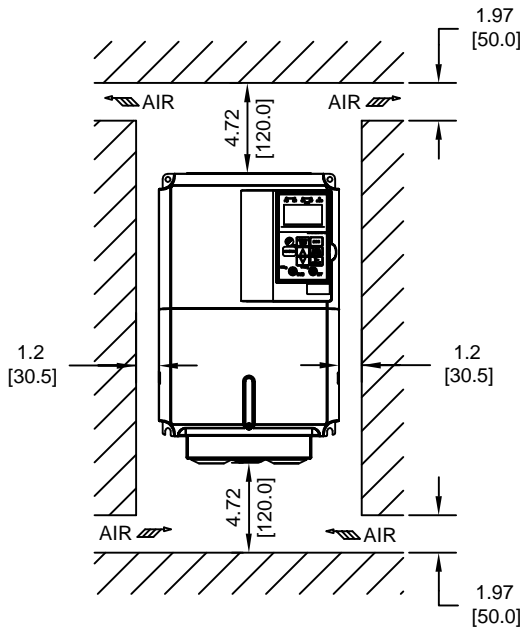


TERMINAL AND WIRE SPECIFICATIONS FOR MAIN CIRCUIT AND GROUND

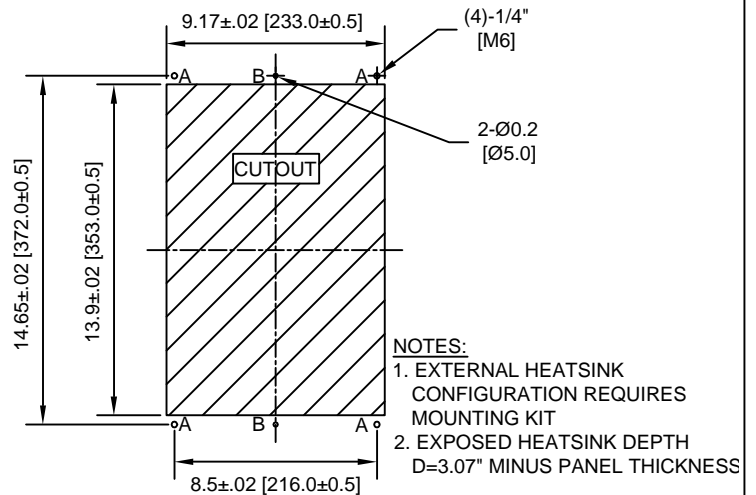
MODEL # CIMR-E7U	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)	WIRE RANGE AWG(mm <sup>2</sup> )
2018	R/L1, S/L2, T/L3, ⊙, ⊕1, ⊕2, U/T1, V/T2, W/T3	M8	79.2 TO 88.0 (9.0 TO 10.0)	8-1 (8-50)
	⊕	M6	35.2 TO 44.0 (4.0 TO 5.0)	SEE NOTE

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

MINIMUM INSTALLATION CLEARANCES (SCALE 1:10)



PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:8)



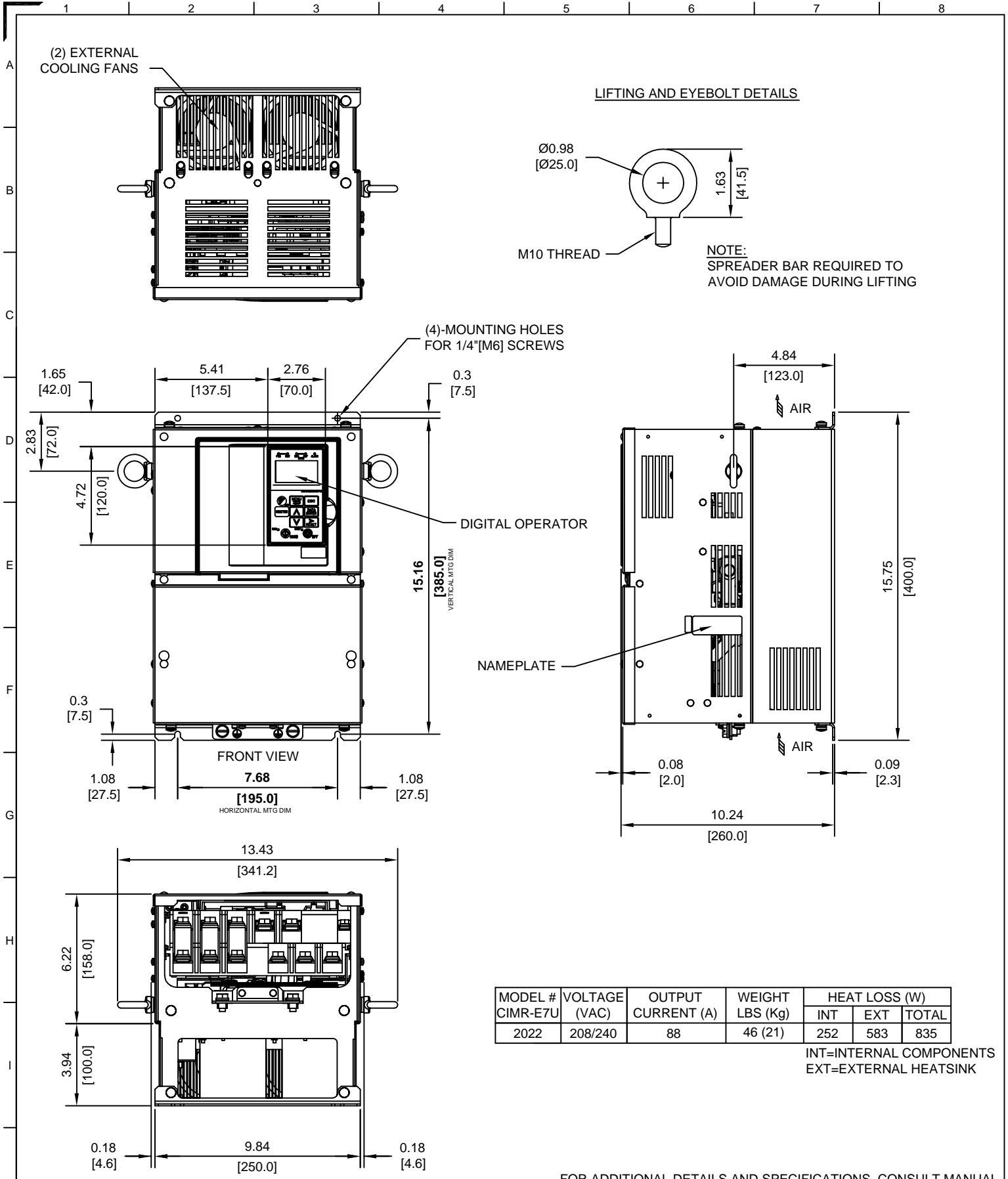
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES:

UNITS: IN[mm] SCALE: BY VIEW

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DRAWN: J. MATTAS	DATE 4-6-05	TITLE: E7 DIMENSION DRAWING	
CHECKED: M. RUCINSKI	DATE 5-3-05	FRAME SIZE 4C	
TECH: J. CAIRO	DATE 4-7-05	NEMA TYPE 1/IP20 AND IP00	
APPROVED: T. SASADA	DATE 6-8-05	SIZE A	REVISION R00
ORIGINAL DESIGN: -	DATE -	PAGE 2 of 2	
DRAWING #: <b>DD.E7.FR4C.N1.01</b>			



FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES:

UNITS: IN[mm]

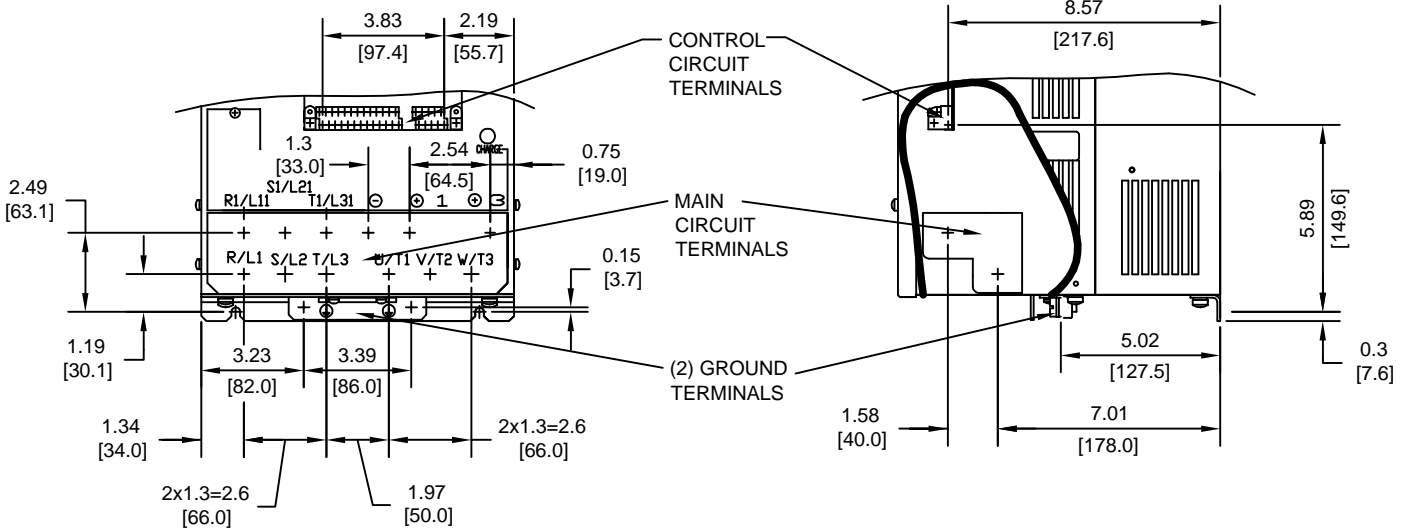
SCALE: 1:6

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DRAWN: J. MATTAS	DATE: 4-8-05	TITLE: E7 DIMENSION DRAWING		
CHECKED: M. RUCINSKI	DATE: 6-5-05	FRAME SIZE 5		
TECH: J. CAIRO	DATE: 4-13-05	IP00 ENCLOSURE		
APPROVED: T. SASADA	DATE: 6-8-05	SIZE: A	REVISION: R00	PAGE: 1 of 2
ORIGINAL DESIGN: -	DATE: -	DRAWING #: DD.E7.FR5.IP00.01		

TERMINAL AND WIRING DETAILS (SCALE 1:6)

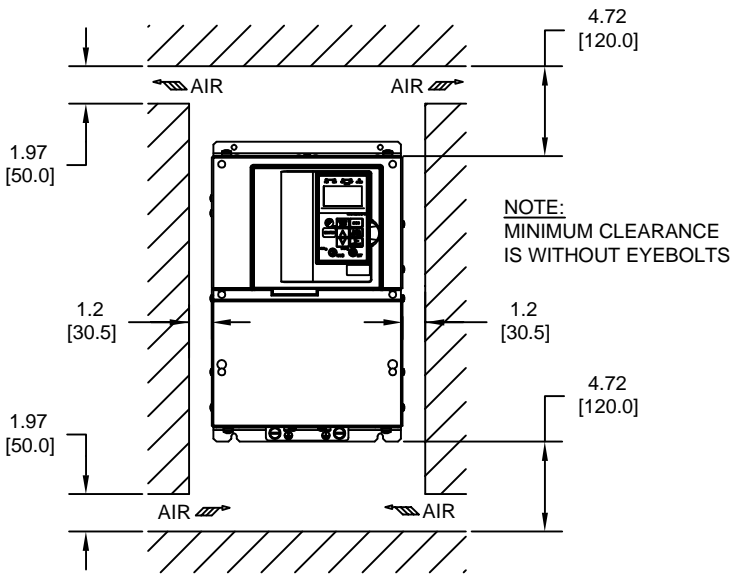


TERMINAL AND WIRE SPECIFICATIONS FOR MAIN CIRCUIT AND GROUND

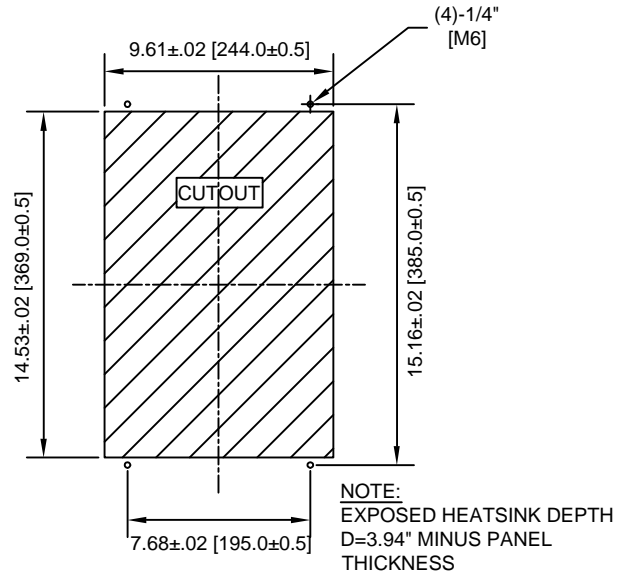
MODEL #	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)	WIRE RANGE AWG(mm <sup>2</sup> )
2022	R/L1, S/L2, T/L3, ⊖, ⊕1, R1/L11, S1/L21, T1/L31, U/T1, V/T2, W/T3	M8	79.2 TO 88.0 (9.0 TO 10.0)	8-1/0 (8-60)
	⊕3	M6	35.2 TO 44.0 (4.0 TO 5.0)	8-4 (8-22)
	⊕	M8	79.2 TO 88.0 (9.0 TO 10.0)	SEE NOTE

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

MINIMUM INSTALLATION CLEARANCES (SCALE 1:10)



PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:8)

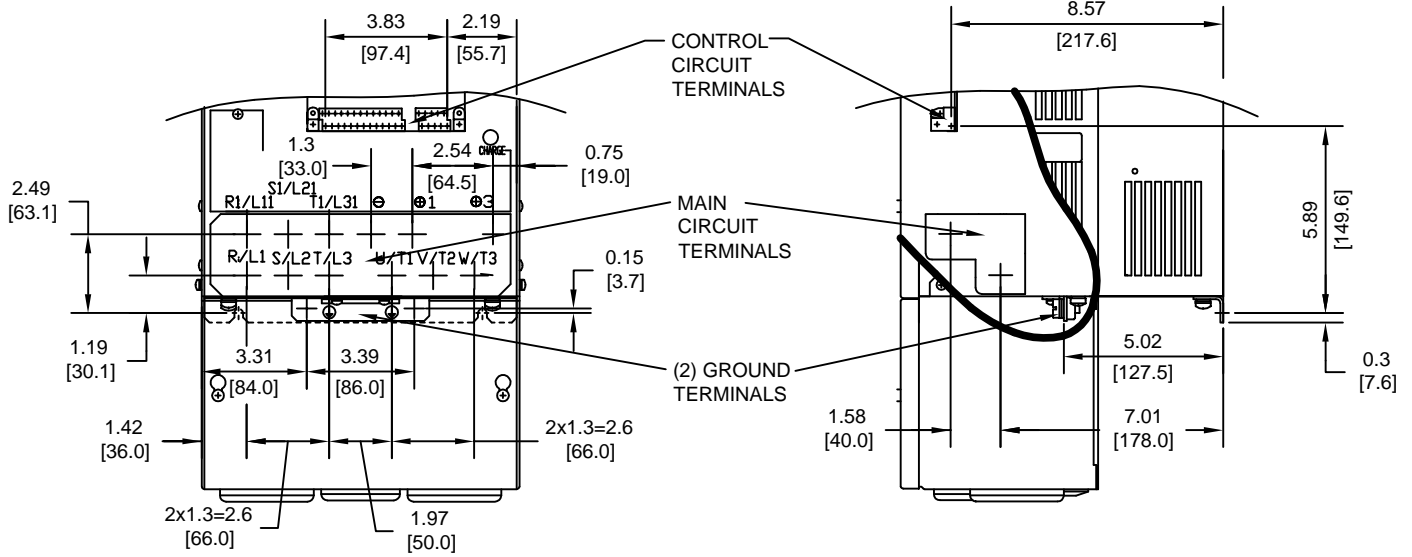


FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - -	<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p>YASKAWA ELECTRIC AMERICA, INC. Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS	DATE 4-8-05	TITLE: E7 DIMENSION DRAWING		
		CHECKED: M. RUCINSKI	DATE 6-5-05	FRAME SIZE 5		
		TECH: J. CAIRO	DATE 4-13-05	IP00 ENCLOSURE		
		APPROVED: T. SASADA	DATE 6-8-05	E7U2022		
UNITS: IN[mm]	SCALE: BY VIEW	ORIGINAL DESIGN: -	DATE -	SIZE A	REVISION R00	PAGE 2 of 2
				DRAWING #: <b>DD.E7.FR5.IP00.01</b>		



TERMINAL AND WIRING DETAILS (SCALE 1:6)

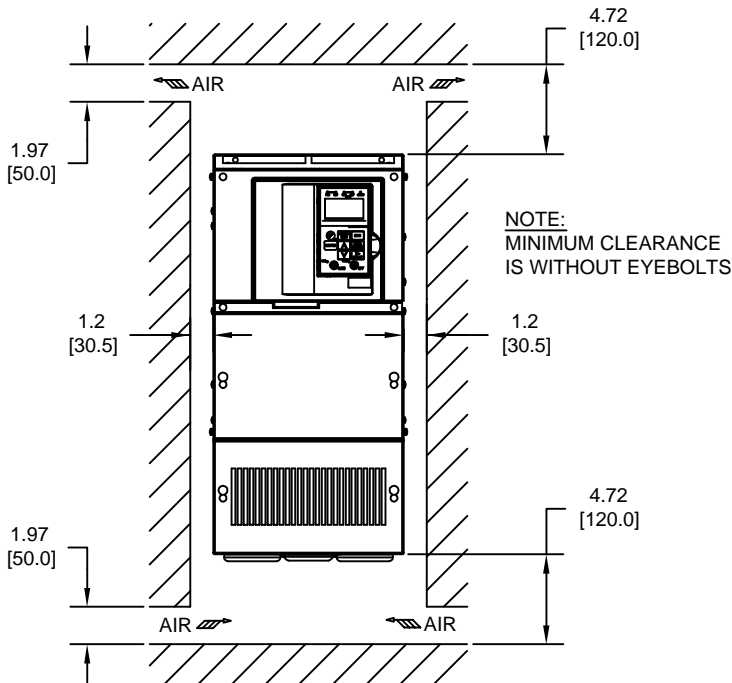


TERMINAL AND WIRE SPECIFICATIONS FOR MAIN CIRCUIT AND GROUND

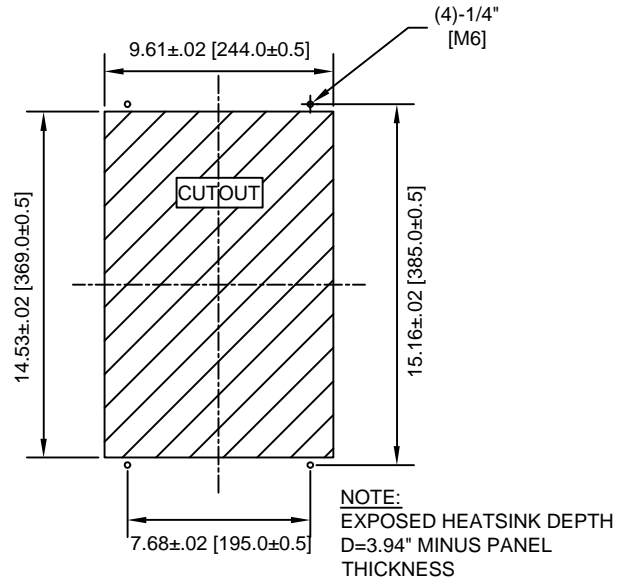
MODEL #	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)	WIRE RANGE AWG(mm <sup>2</sup> )
2022	R/L1, S/L2, T/L3, U, V, W, T3, R1/L11, S1/L21, T1/L31, U/T1, V/T2, W/T3.	M8	79.2 TO 88.0 (9.0 TO 10.0)	8-1/0 (8-60)
	⊕3	M6	35.2 TO 44.0 (4.0 TO 5.0)	8-4 (8-22)
	⊕	M8	79.2 TO 88.0 (9.0 TO 10.0)	SEE NOTE

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

MINIMUM INSTALLATION CLEARANCES (SCALE 1:10)



PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:8)

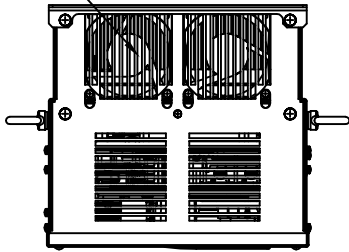


FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

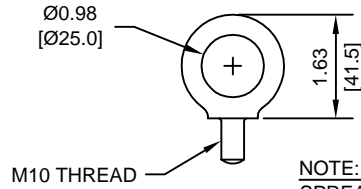
TOLERANCES/REFERENCES: - - - -	<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p>YASKAWA ELECTRIC AMERICA, INC. Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS	DATE 4-8-05	TITLE: E7 DIMENSION DRAWING			
		CHECKED: M. RUCINSKI	DATE 6-5-05	FRAME SIZE 5			
		TECH: J. CAIRO	DATE 4-13-05	NEMA TYPE 1/IP20 ENCLOSURE			
		APPROVED: T. SASADA	DATE 6-8-05	E7U2022			
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SIZE A	REVISION R00	PAGE 2 of 2					

DRAWING #: DD.E7.FR5.N1.01

(2) EXTERNAL COOLING FANS

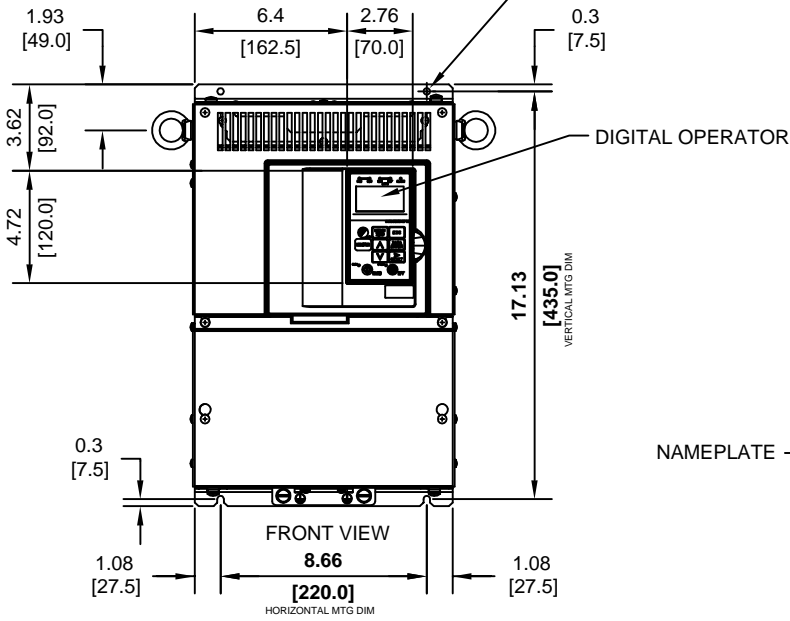


LIFTING AND EYEBOLT DETAILS

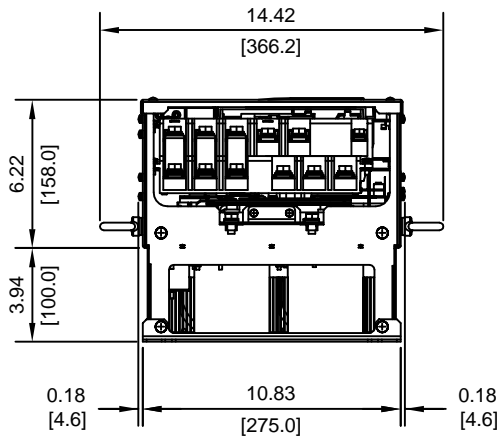
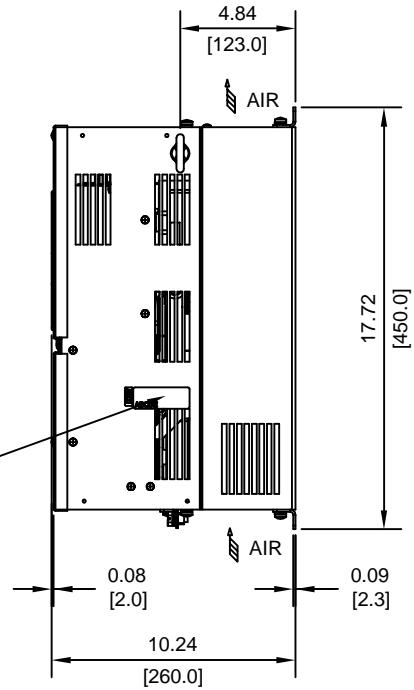


NOTE:  
SPREADER BAR REQUIRED TO  
AVOID DAMAGE DURING LIFTING

(4)-MOUNTING HOLES FOR 1/4"[M6] SCREWS



NAMEPLATE



MODEL #	VOLTAGE (VAC)	OUTPUT CURRENT (A)	WEIGHT LBS (Kg)	HEAT LOSS (W)		
				INT	EXT	TOTAL
2030	208/240	115	53 (24)	334	883	1217
4022	480	50.4	46 (21)	233	420	653
4030		67.2	46 (21)	298	691	989

INT=INTERNAL COMPONENTS  
EXT=EXTERNAL HEATSINK

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

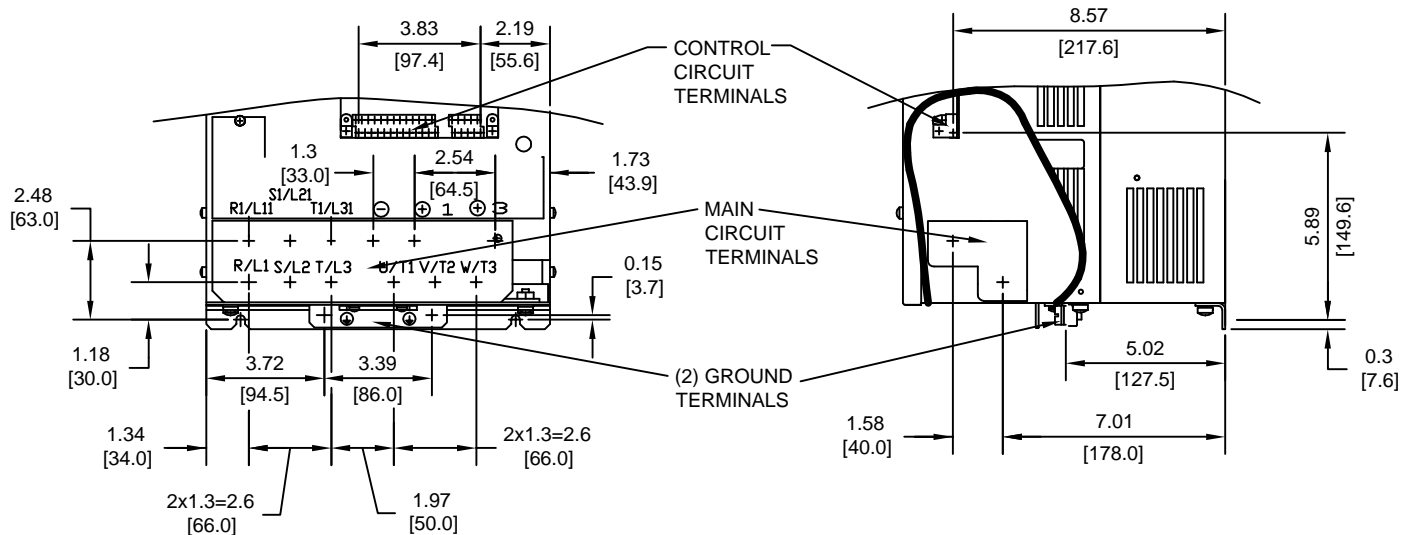
TOLERANCES/REFERENCES:	
-	
-	
-	
-	
UNITS:	SCALE:
IN[mm]	1:8

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http://www.yaskawa.com

DRAWN: J. MATTAS	DATE 4-12-05	TITLE: E7 DIMENSION DRAWING		
CHECKED: M. RUCINSKI	DATE 6-5-05	FRAME SIZE 6		
TECH: J. CAIRO	DATE 4-13-05	IP00 ENCLOSURE		
APPROVED: T. SASADA	DATE 6-8-05	SIZE A	REVISION R00	PAGE 1 of 3
ORIGINAL DESIGN: -	DATE -	DRAWING # DD.E7.FR6.IP00.01		

TERMINAL AND WIRING DETAILS (SCALE 1:6)




TERMINAL AND WIRE SPECIFICATIONS FOR  
MAIN CIRCUIT AND GROUND

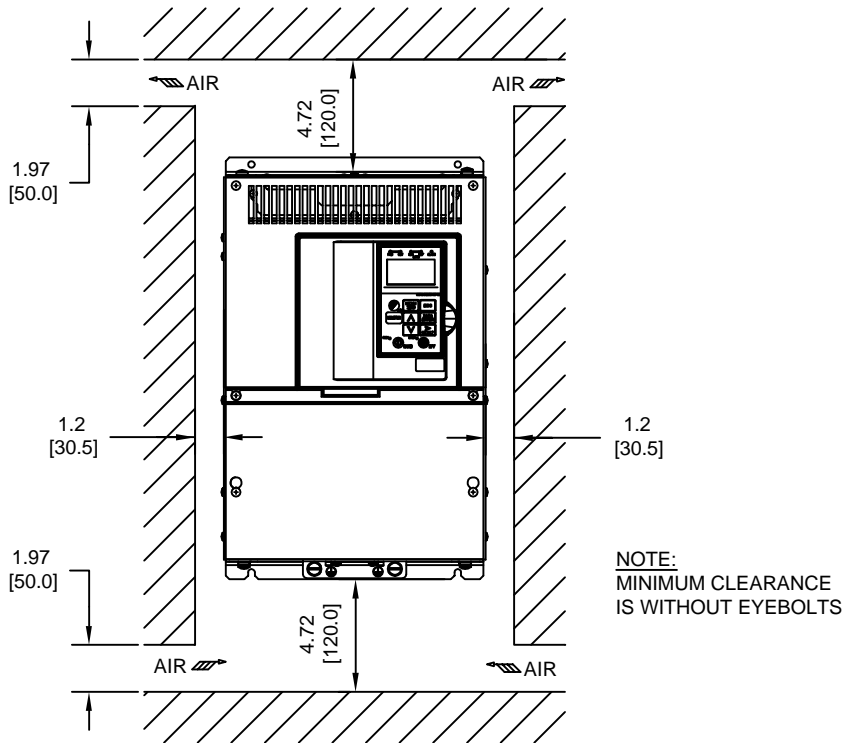
MODEL # CIMR-E7U	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)	WIRE RANGE AWG(mm <sup>2</sup> )
2030	R/L1, S/L2, T/L3, ⊖, ⊕1, R1/L11, S1/L21, T1/L31, U/T1, V/T2, W/T3,	M8	79.2 TO 88.0 (9.0 TO 10.0)	8-1/0 (8-60)
	⊕3	M6	35.2 TO 44.0 (4.0 TO 5.0)	8-4 (8-22)
	⊕	M8	79.2 TO 88.0 (9.0 TO 10.0)	SEE NOTE
4022	R/L1, S/L2, T/L3, ⊖, ⊕1, R1/L11, S1/L21, T1/L31, U/T1, V/T2, W/T3,	M6	35.2 TO 44.0 (4.0 TO 5.0)	12-3 (3.5-30)
	⊕3	M6	35.2 TO 44.0 (4.0 TO 5.0)	12-8 (3.5-8)
	⊕	M8	79.2 TO 88.0 (9.0 TO 10.0)	SEE NOTE
4030	R/L1, S/L2, T/L3, ⊖, ⊕1, R1/L11, S1/L21, T1/L31, U/T1, V/T2, W/T3,	M6	35.2 TO 44.0 (4.0 TO 5.0)	12-3 (3.5-30)
	⊕3	M6	35.2 TO 44.0 (4.0 TO 5.0)	12-8 (3.5-8)
	⊕	M8	79.2 TO 88.0 (9.0 TO 10.0)	SEE NOTE

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

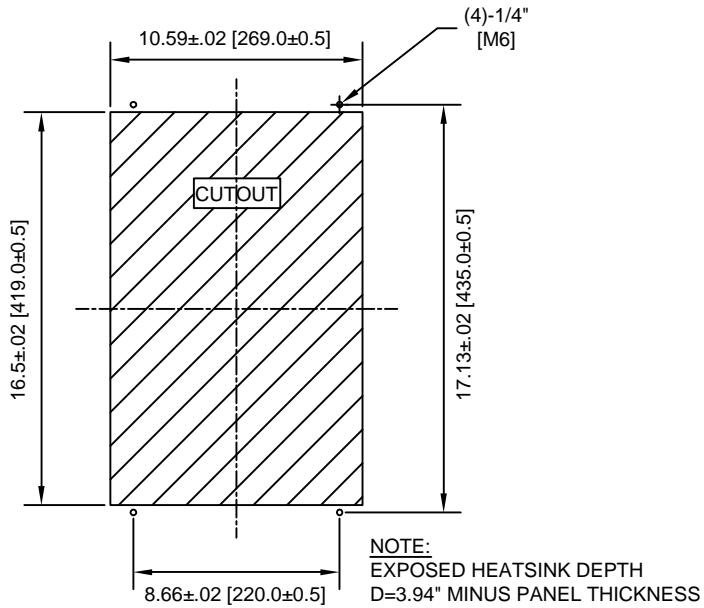
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - - -	 <b>YASKAWA</b> <i>A World of Automation Solutions™</i> <b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA <a href="http://www.yaskawa.com">http://www.yaskawa.com</a>	DRAWN: J. MATTAS	DATE 4-12-05	TITLE: E7 DIMENSION DRAWING		
		CHECKED: M. RUCINSKI	DATE 6-5-05	FRAME SIZE 6		
		TECH: J. CAIRO	DATE 4-13-05	IP00 ENCLOSURE		
		APPROVED: T. SASADA	DATE 6-6-05	E7U2030, 4022, 4030		
UNITS: IN[mm]	SCALE: BY VIEW	ORIGINAL DESIGN: -	DATE -	SIZE A	REVISION R00	PAGE 2 of 3
				DRAWING #: DD.E7.FR6.IP00.01		


MINIMUM INSTALLATION CLEARANCES (SCALE 1:8)



PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:8)



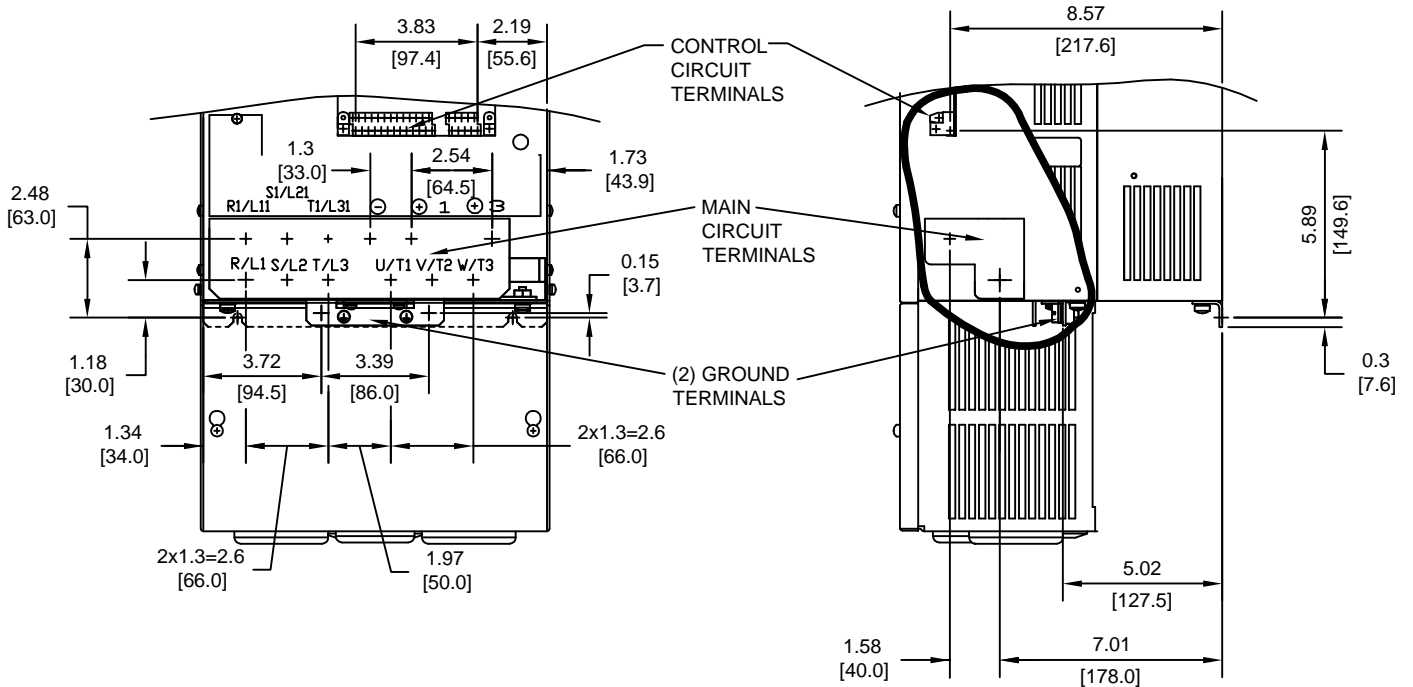
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - -		 <b>YASKAWA</b> <i>A World of Automation Solutions™</i> <b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA <a href="http://www.yaskawa.com">http://www.yaskawa.com</a>	DRAWN: <b>J. MATTAS</b>	DATE: <b>4-12-05</b>	TITLE: <b>E7 DIMENSION DRAWING</b>		
UNITS: IN[mm] SCALE: BY VIEW			CHECKED: <b>M. RUCINSKI</b>	DATE: <b>6-5-05</b>	<b>FRAME SIZE 6</b> <b>IP00 ENCLOSURE</b> <b>E7U2030, 4022, 4030</b>		
		TECH: <b>J. CAIRO</b>	DATE: <b>4-13-05</b>	SIZE: <b>A</b>	REVISION: <b>R00</b>	PAGE: <b>3 of 3</b>	
		APPROVED: <b>T. SASADA</b>	DATE: <b>6-6-05</b>	DRAWING #: <b>DD.E7.FR6.IP00.01</b>			
		ORIGINAL DESIGN: -	DATE: -				





TERMINAL AND WIRING DETAILS (SCALE 1:6)



TERMINAL AND WIRE SPECIFICATIONS FOR MAIN CIRCUIT AND GROUND

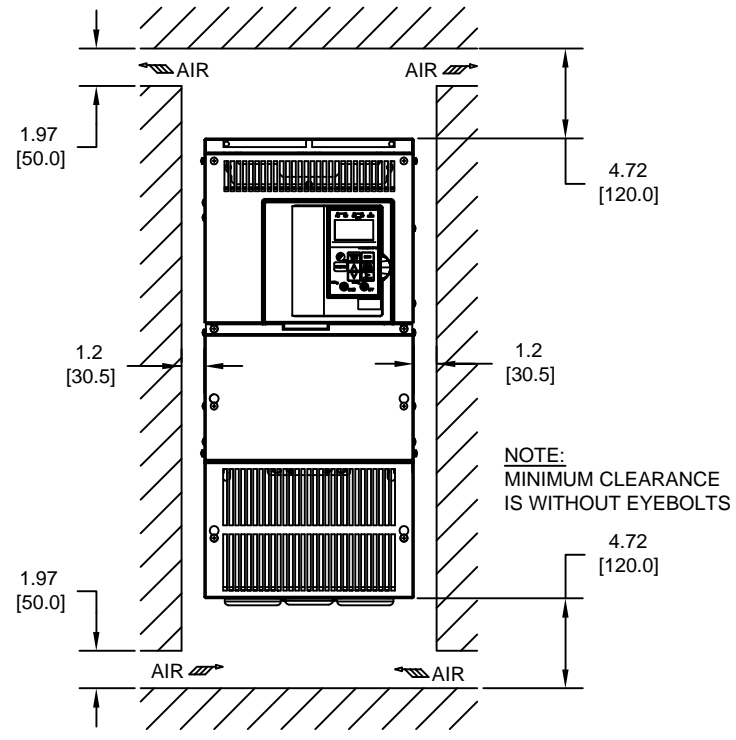
MODEL #	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)	WIRE RANGE AWG(mm <sup>2</sup> )
CIMR-E7U 2030	R/L1, S/L2, T/L3, ⊖, ⊕1, R1/L11, S1/L21, T1/L31, U/T1, V/T2, W/T3	M8	79.2 TO 88.0 (9.0 TO 10.0)	8-1/0 (8-60)
	⊕3	M6	35.2 TO 44.0 (4.0 TO 5.0)	8-4 (8-22)
	⊕	M8	79.2 TO 88.0 (9.0 TO 10.0)	SEE NOTE

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

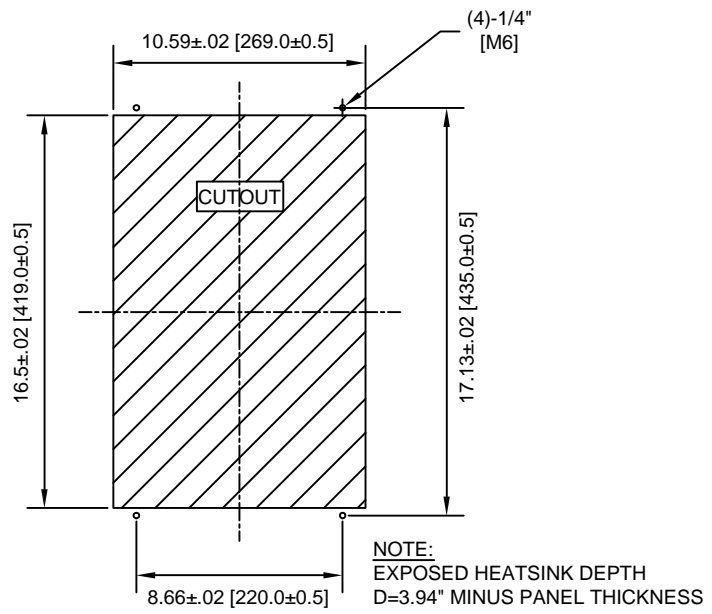
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - - -	<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p><b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS	DATE 4-12-05	TITLE: E7 DIMENSION DRAWING		
		CHECKED: M. RUCINSKI	DATE 6-5-05	FRAME SIZE 6A		
		TECH: J. CAIRO	DATE 4-13-05	NEMA TYPE 1/IP20 ENCLOSURE		
		APPROVED: T. SASADA	DATE 6-8-05	E7U2030		
UNITS: IN[mm]	SCALE: BY VIEW	ORIGINAL DESIGN: -	DATE -	SIZE A	REVISION R00	PAGE 2 of 3
				DRAWING #: <b>DD.E7.FR6A.N1.01</b>		


MINIMUM INSTALLATION CLEARANCES (SCALE 1:10)



PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:8)

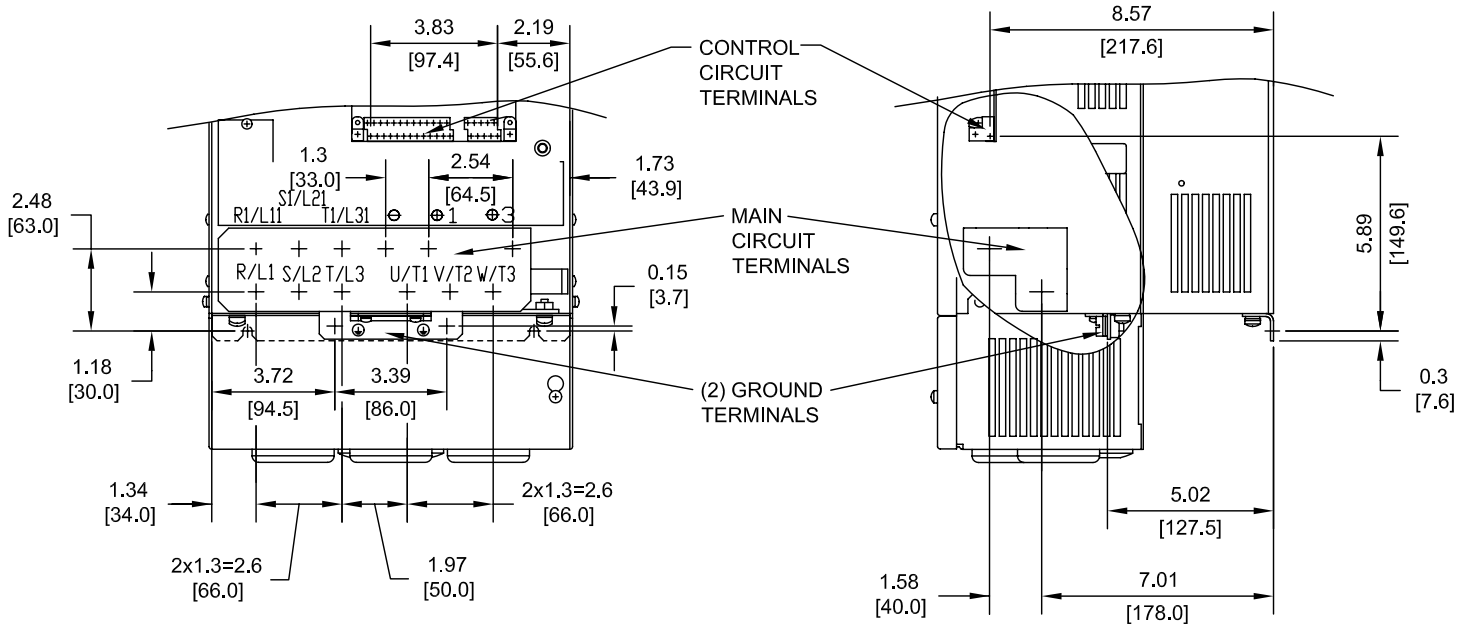


FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

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		TECH: <b>J. CAIRO</b>	DATE: <b>4-13-05</b>	<b>NEMA TYPE 1/IP20 ENCLOSURE</b>			
		APPROVED: <b>T. SASADA</b>	DATE: <b>6-8-05</b>	SIZE: <b>A</b>	REVISION: <b>R00</b>	PAGE: <b>3 of 3</b>	
		ORIGINAL DESIGN: -	DATE: -	DRAWING #: <b>DD.E7.FR6A.N1.01</b>			



TERMINAL AND WIRING DETAILS (SCALE 1:6)



TERMINAL AND WIRE SPECIFICATIONS FOR MAIN CIRCUIT AND GROUND

MODEL # CIMR-E7U	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)	WIRE RANGE AWG(mm <sup>2</sup> )
4022	R/L1, S/L2, T/L3, ⊖, ⊕, R1/L11, S1/L21, T1/L31, U/T1, V/T2, W/T3	M6	35.2 TO 44.0 (4.0 TO 5.0)	12-3 (3.5-30)
	⊕3	M6	35.2 TO 44.0 (4.0 TO 5.0)	12-8 (3.5-8)
	⊙	M8	79.2 TO 88.0 (9.0 TO 10.0)	SEE NOTE
4024, 4030	R/L1, S/L2, T/L3, ⊖, ⊕, R1/L11, S1/L21, T1/L31, U/T1, V/T2, W/T3	M6	35.2 TO 44.0 (4.0 TO 5.0)	12-3 (3.5-30)
	⊕3	M6	35.2 TO 44.0 (4.0 TO 5.0)	12-8 (3.5-8)
	⊙	M8	79.2 TO 88.0 (9.0 TO 10.0)	SEE NOTE

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

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UNITS:	SCALE:
IN[mm]	BY VIEW

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http://www.yaskawa.com

DRAWN:	J. MATTAS	DATE:	4-12-05
CHECKED:	M. RUCINSKI	DATE:	6-5-05
TECH:	J. CAIRO	DATE:	4-13-05
APPROVED:	T. SASADA	DATE:	6-6-05
ORIGINAL DESIGN:	-	DATE:	-

TITLE:		
E7 DIMENSION DRAWING		
FRAME SIZE 6B		
NEMA TYPE 1/IP20 ENCLOSURE		
E7U4022 TO 4030		
SIZE	REVISION	PAGE
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DRAWING #:		
DD.E7.FR6B.N1.01		

A

B

C

D

E

F

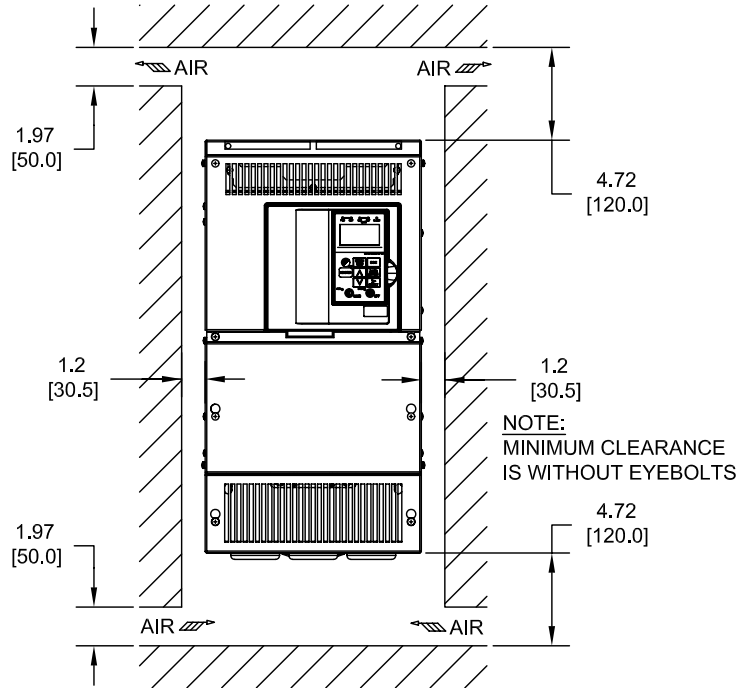
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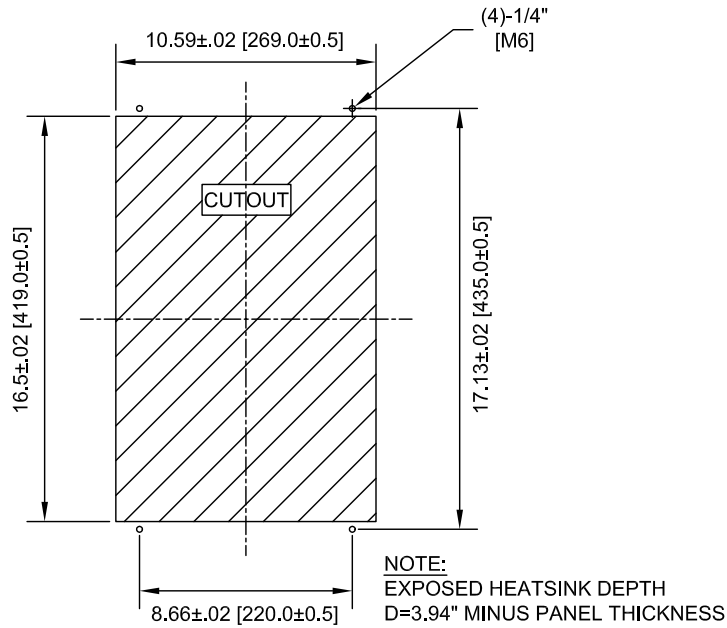
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J

**MINIMUM INSTALLATION CLEARANCES (SCALE 1:10)**



**PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:8)**



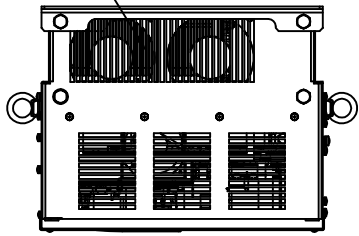
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

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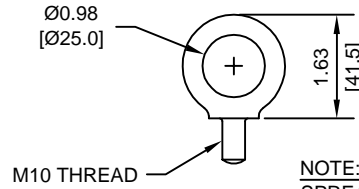
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UNITS: IN[mm]	SCALE: BY VIEW		CHECKED: <b>M. RUCINSKI</b>	DATE: 6-5-05	
			TECH: <b>J. CAIRO</b>	DATE: 4-13-05	
			APPROVED: <b>T. SASADA</b>	DATE: 6-6-05	
			ORIGINAL DESIGN: -	DATE: -	
			DRAWING #: <b>DD.E7.FR6B.N1.01</b>		SIZE: A REVISION: R01 PAGE: 3 of 3

(2) EXTERNAL COOLING FANS

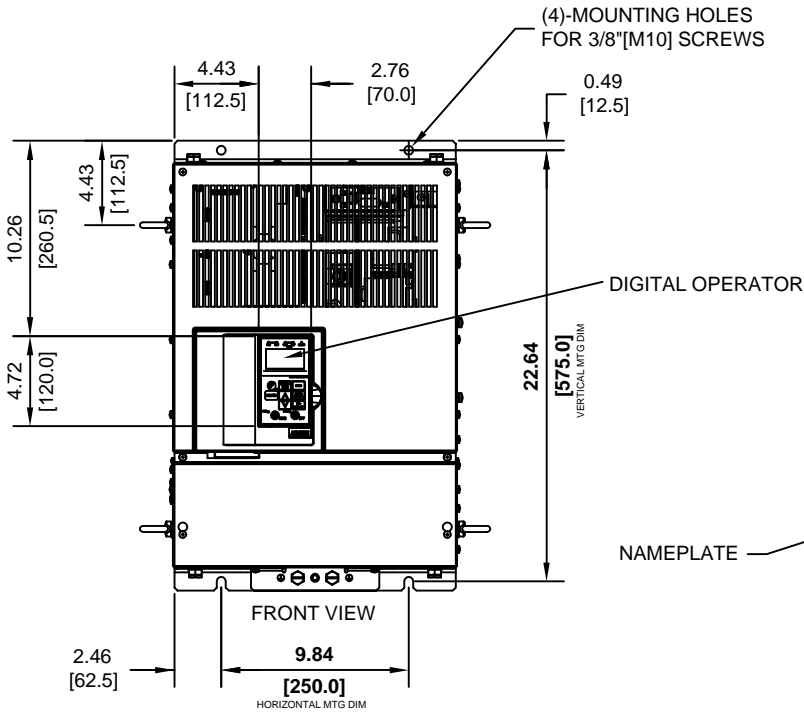


LIFTING AND EYEBOLT DETAILS



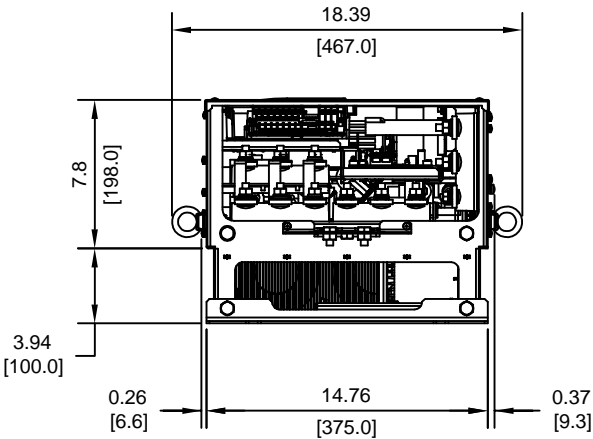
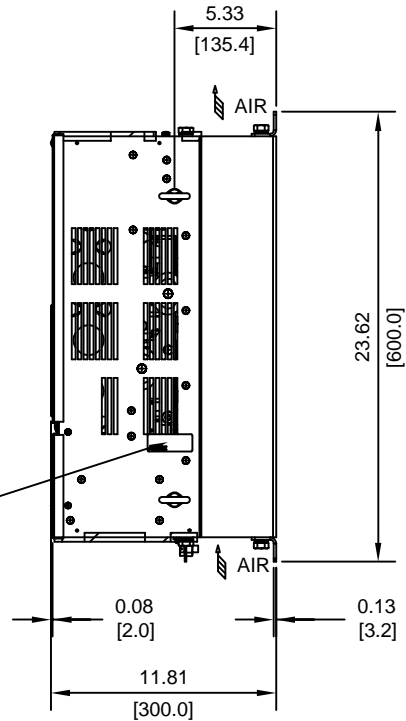
NOTE:  
SPREADER BAR REQUIRED TO  
AVOID DAMAGE DURING LIFTING

(4)-MOUNTING HOLES  
FOR 3/8" [M10] SCREWS



DIGITAL OPERATOR

NAMEPLATE



MODEL #	VOLTAGE (VAC)	OUTPUT CURRENT (A)	WEIGHT LBS (Kg)	HEAT LOSS (W)		
				INT	EXT	TOTAL
2037	208/230	162	125 (57)	421	1010	1431

INT=INTERNAL COMPONENTS  
EXT=EXTERNAL HEATSINK

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

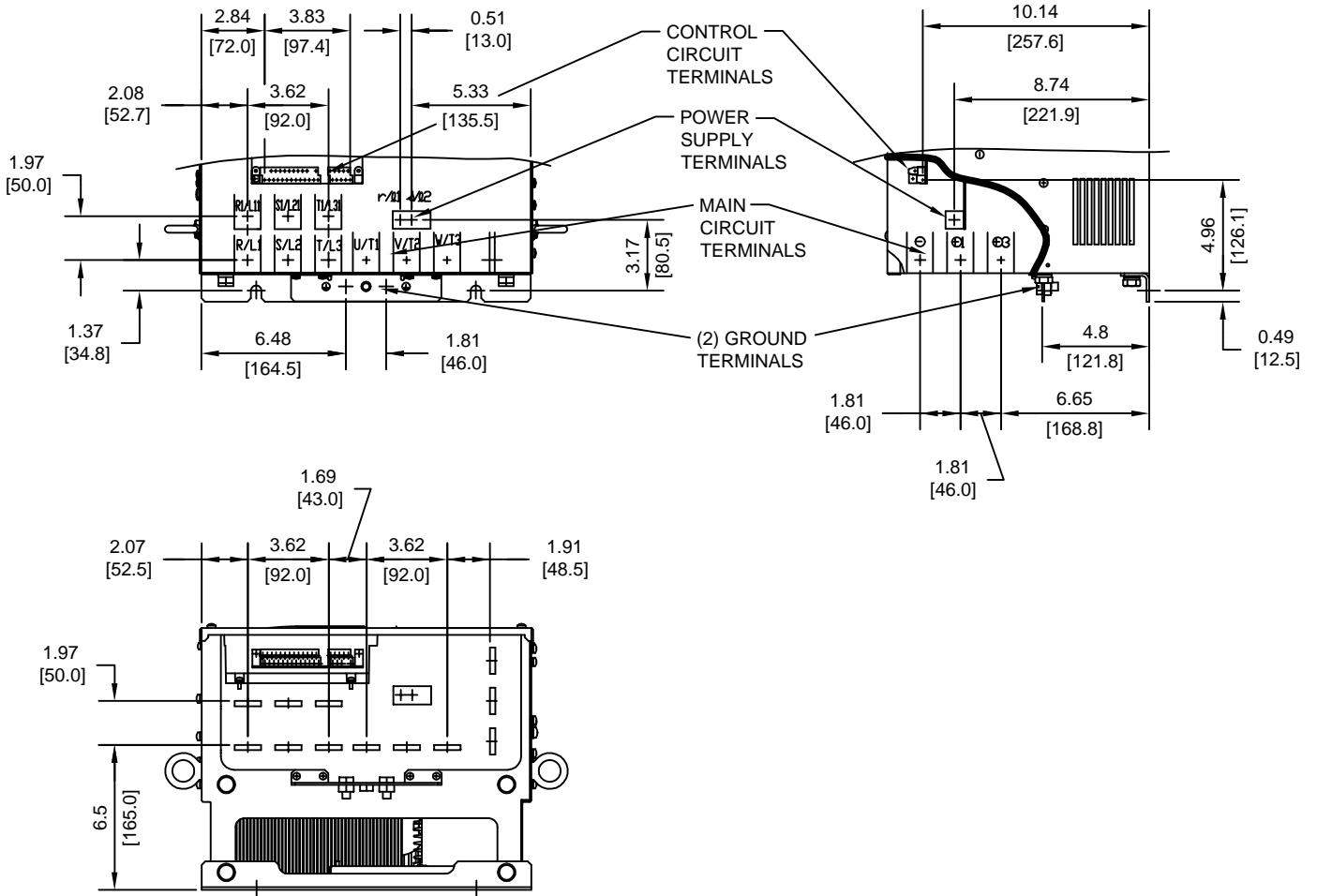
TOLERANCES/REFERENCES:	
UNITS:	SCALE:
IN[mm]	1:10

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DRAWN:	J. MATTAS	DATE:	4-14-05	TITLE:	E7 DIMENSION DRAWING		
CHECKED:	M. RUCINSKI	DATE:	5-3-05		FRAME SIZE 7		
TECH:	J. CAIRO	DATE:	4-15-05		IP00 ENCLOSURE		
APPROVED:	T. SASADA	DATE:	6-8-05	SIZE:	A	REVISION:	R00
ORIGINAL DESIGN:	-	DATE:	-			PAGE:	1 of 3
				DRAWING #:	DD.E7.FR7.IP00.01		

TERMINAL AND WIRING DETAILS (SCALE 1:8)



TERMINAL SPECIFICATIONS FOR  
MAIN CIRCUIT AND GROUND

MODEL #	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)
CIMR-E7U			
2037	R/L1, S/L2, T/L3, ⊕, ⊕1, R1/L11, S1/L21, T1/L31, U/T1, V/T2, W/T3, ⊕	M10	155 TO 198 (17.6 TO 22.5)
	⊕3	M8	77.4 TO 95.0 (8.8 TO 10.8)
	r/l1, s/l2	M4	11.4 TO 12.3 (1.3 TO 1.4)

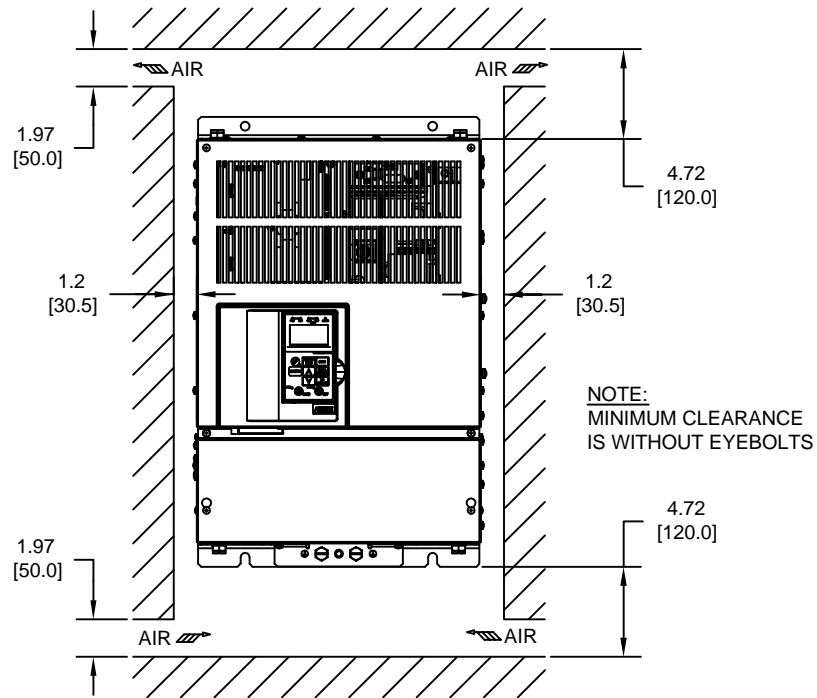
NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

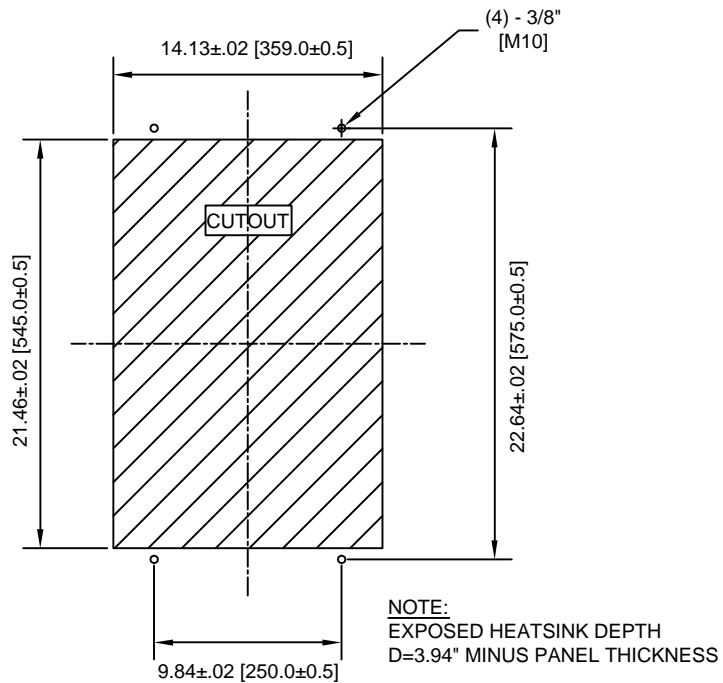
TOLERANCES/REFERENCES: - - - - - -	<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p>YASKAWA ELECTRIC AMERICA, INC. Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS DATE: 4-14-05	TITLE: E7 DIMENSION DRAWING		
		CHECKED: M. RUCINSKI DATE: 5-3-05	FRAME SIZE 7 IP00 ENCLOSURE		
		TECH: J. CAIRO DATE: 4-15-05	E7U2037		
		APPROVED: T. SASADA DATE: 6-8-05	SIZE A	REVISION R00	PAGE 2 of 3
UNITS: IN[mm]	SCALE: BY VIEW	ORIGINAL DESIGN: -	DATE: -	DRAWING #: DD.E7.FR7.IP00.01	




MINIMUM INSTALLATION CLEARANCES (SCALE 1:10)



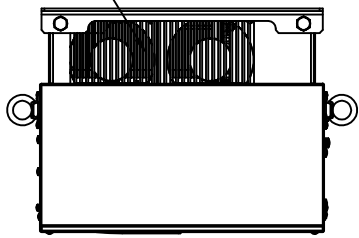
PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:10)



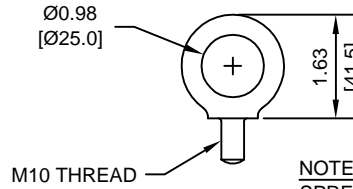
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

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		TECH: <b>J. CAIRO</b> DATE: <b>4-15-05</b>	DATE: <b>4-15-05</b>	<b>E7U2037</b>
		APPROVED: <b>T. SASADA</b> DATE: <b>6-8-05</b>	DATE: <b>6-8-05</b>	SIZE: <b>A</b> REVISION: <b>R00</b> PAGE: <b>3 of 3</b>
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(2) EXTERNAL COOLING FANS

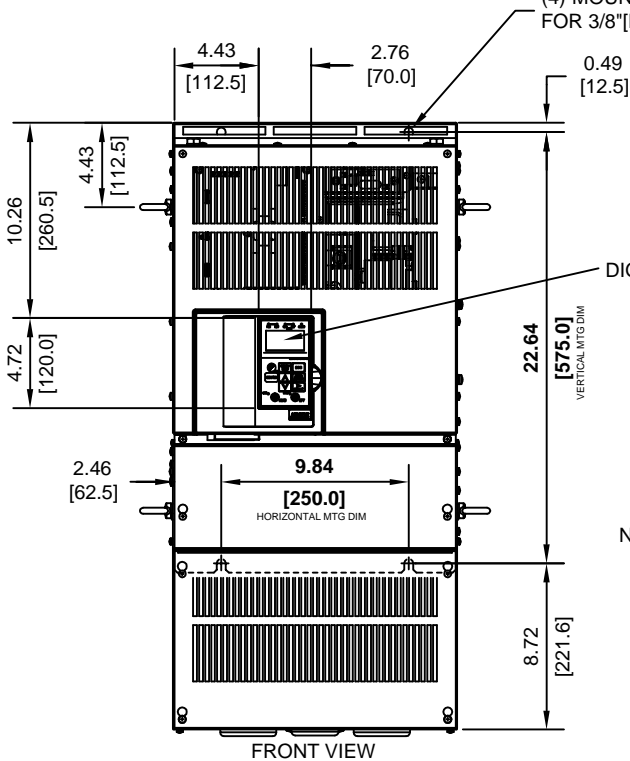


LIFTING AND EYEBOLT DETAILS



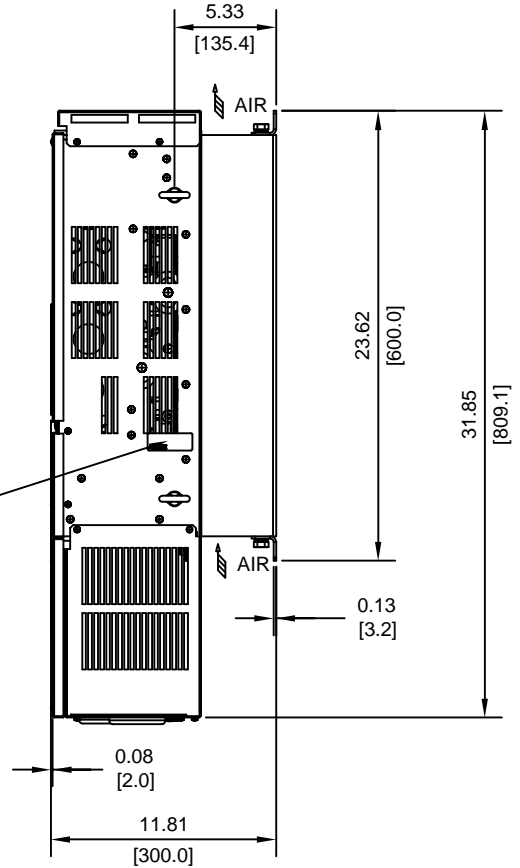
NOTE:  
SPREADER BAR REQUIRED TO AVOID DAMAGE DURING LIFTING

(4)-MOUNTING HOLES FOR 3/8"[M10] SCREWS



DIGITAL OPERATOR

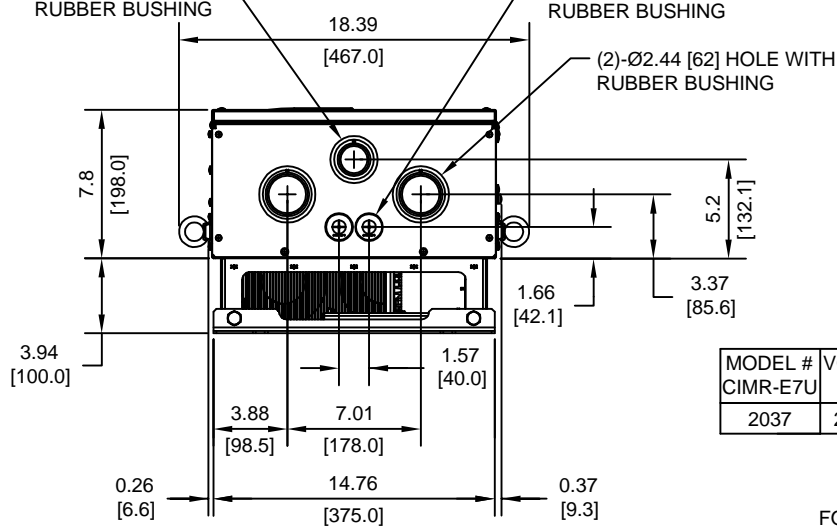
NAMEPLATE



Ø1.97 [50] HOLE WITH RUBBER BUSHING

(2)-Ø1.10 [28] HOLE WITH RUBBER BUSHING

(2)-Ø2.44 [62] HOLE WITH RUBBER BUSHING



MODEL #	VOLTAGE (VAC)	OUTPUT CURRENT (A)	WEIGHT LBS (Kg)	HEAT LOSS (W)		
				INT	EXT	TOTAL
2037	208/230	162	136 (62)	421	1010	1431

INT=INTERNAL COMPONENTS  
EXT=EXTERNAL HEATSINK

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES:

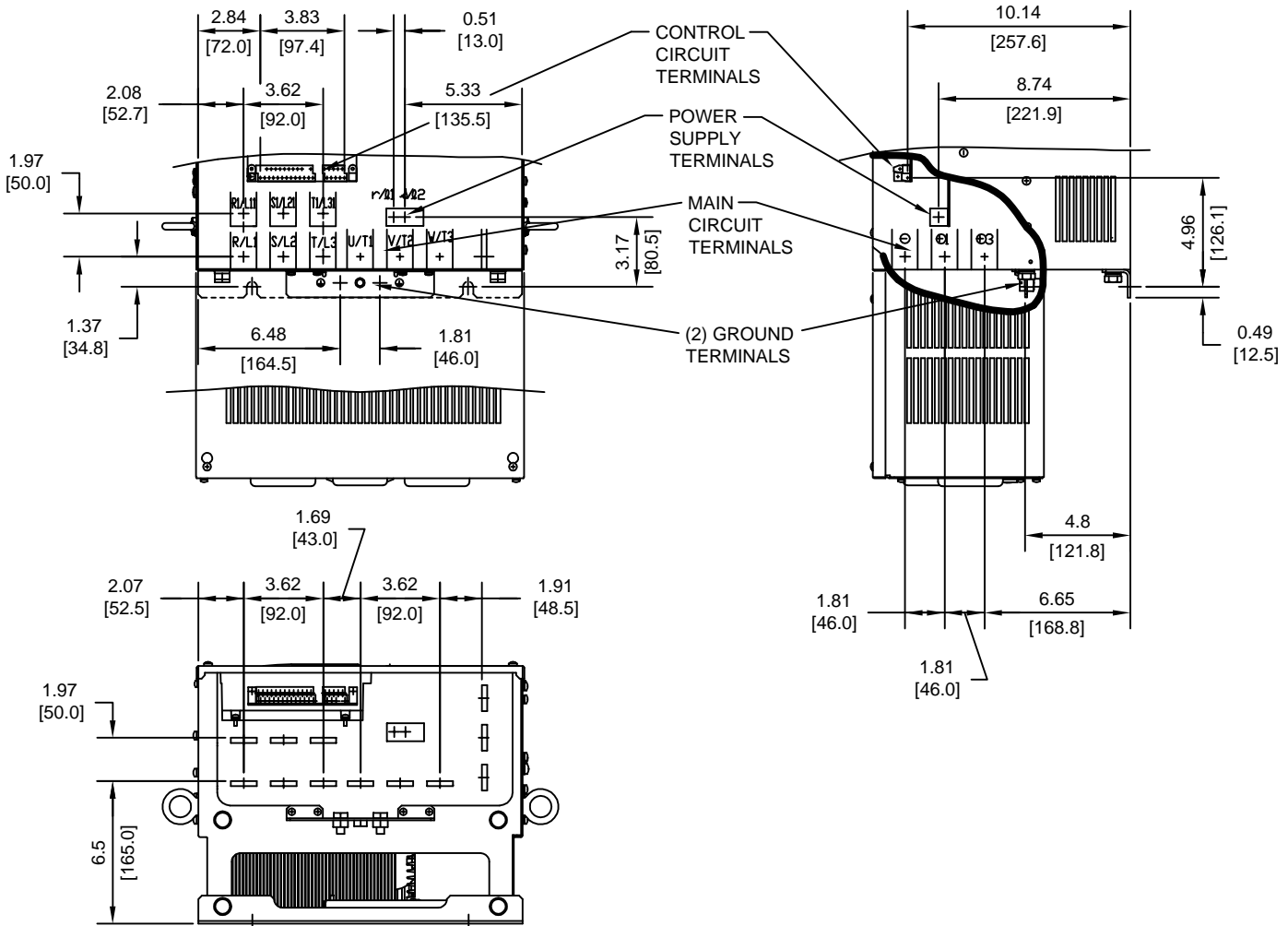
UNITS: IN[mm]      SCALE: 1:10

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Waukegan, IL 60085  
1-800-YASKAWA  
http://www.yaskawa.com

DRAWN: J. MATTAS	DATE: 3-30-05	TITLE: E7 DIMENSION DRAWING		
CHECKED: M. RUCINSKI	DATE: 5-3-05	FRAME SIZE 7		
TECH: J. CAIRO	DATE: 3-31-05	NEMA TYPE 1/IP20 ENCLOSURE		
APPROVED: T. SASADA	DATE: 6-8-05	SIZE: A	REVISION: R00	PAGE: 1 of 3
ORIGINAL DESIGN: -	DATE: -	DRAWING #: DD.E7.FR7.N1.01		

TERMINAL AND WIRING DETAILS (SCALE 1:8)



TERMINAL SPECIFICATIONS FOR MAIN CIRCUIT AND GROUND

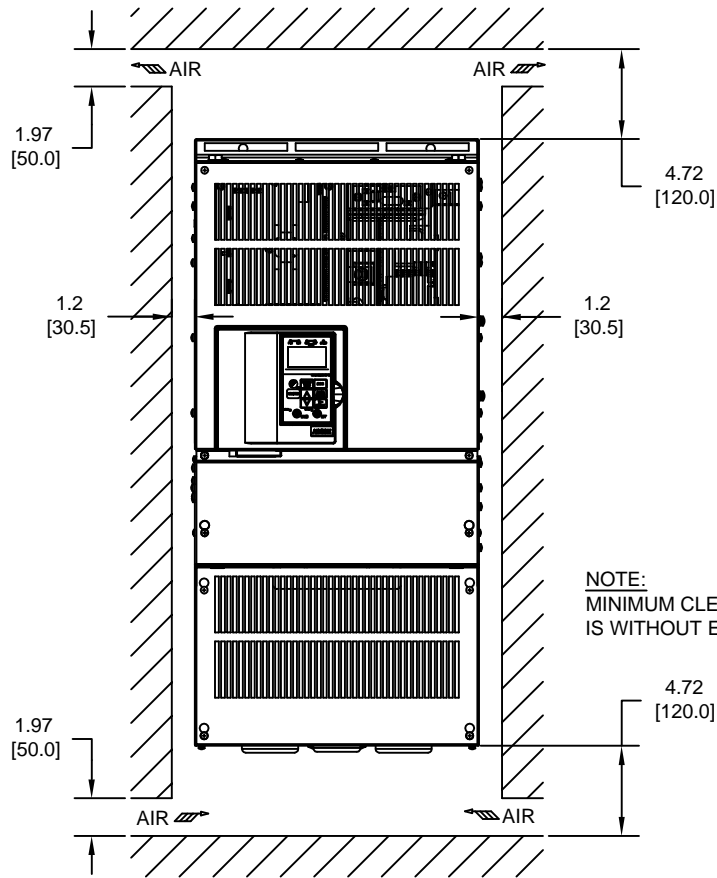
MODEL #	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)
CIMR-E7U 2037	R/L1, S/L2, T/L3, ⊙, ⊕1, R1/L11, S1/L21, T1/L31, U/T1, V/T2, W/T3, ⊕	M10	155 TO 198 (17.6 TO 22.5)
	⊕3	M8	77.4 TO 95.0 (8.8 TO 10.8)
	r/l1, s/l2	M4	11.4 TO 12.3 (1.3 TO 1.4)

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

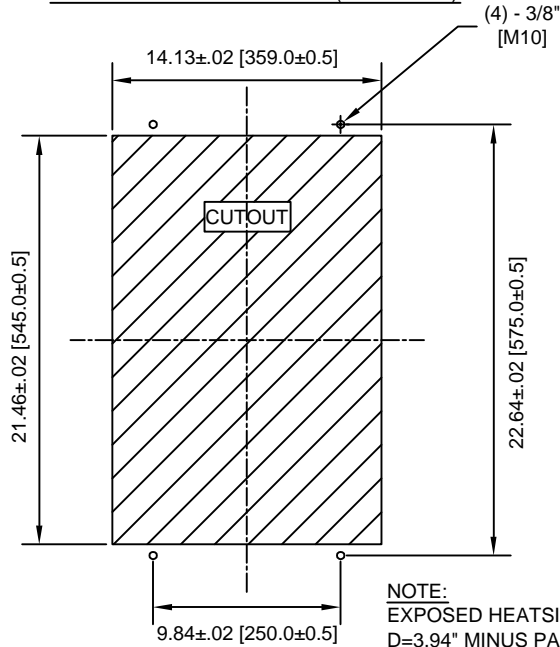
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - - - - - - -	<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p>YASKAWA ELECTRIC AMERICA, INC. Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS DATE 3-30-05	TITLE: E7 DIMENSION DRAWING FRAME SIZE 7 NEMA TYPE 1/IP20 ENCLOSURE E7U2037			
		CHECKED: M. RUCINSKI DATE 5-3-05	TECH: J. CAIRO DATE 3-31-05	SIZE A	REVISION R00	PAGE 2 of 3
		APPROVED: T. SASADA DATE 6-6-05	ORIGINAL DESIGN: - DATE -	DRAWING #: DD.E7.FR7.N1.01		
		UNITS: IN[mm]	SCALE: BY VIEW			

MINIMUM INSTALLATION CLEARANCES (SCALE 1:10)



PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:10)

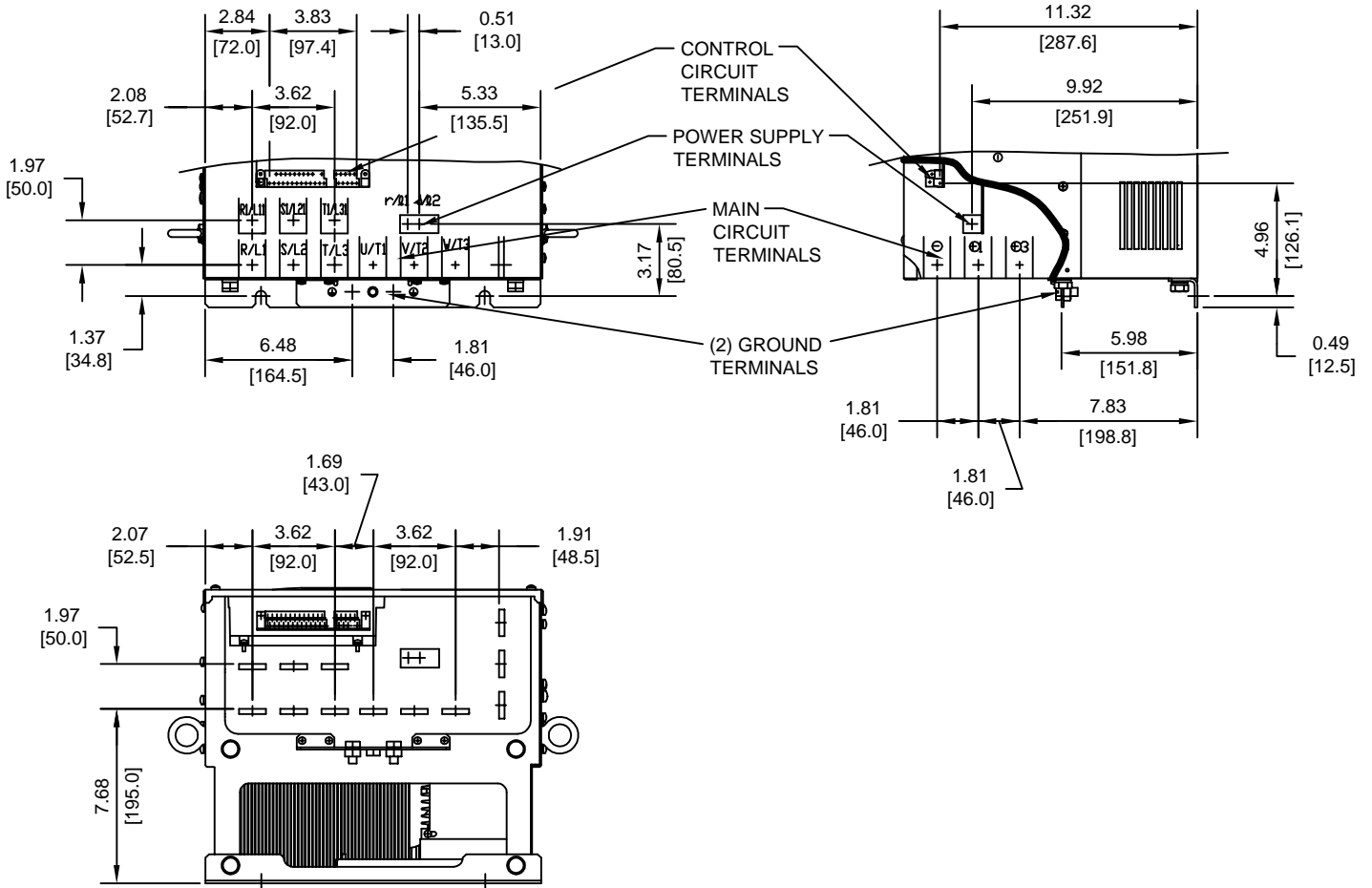


FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: -		<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p><b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS DATE 3-30-05	TITLE: E7 DIMENSION DRAWING FRAME SIZE 7 NEMA TYPE 1/IP20 ENCLOSURE E7U2037
UNITS: IN[mm]	SCALE: BY VIEW		CHECKED: M. RUCINSKI DATE 5-3-05	DATE 3-31-05
		TECH: J. CAIRO	DATE 6-6-05	REVISION R00
		APPROVED: T. SASADA	DATE -	PAGE 3 of 3
		ORIGINAL DESIGN: -	DATE -	DRAWING #: DD.E7.FR7.N1.01



TERMINAL AND WIRING DETAILS (SCALE 1:8)



TERMINAL SPECIFICATIONS FOR  
MAIN CIRCUIT AND GROUND

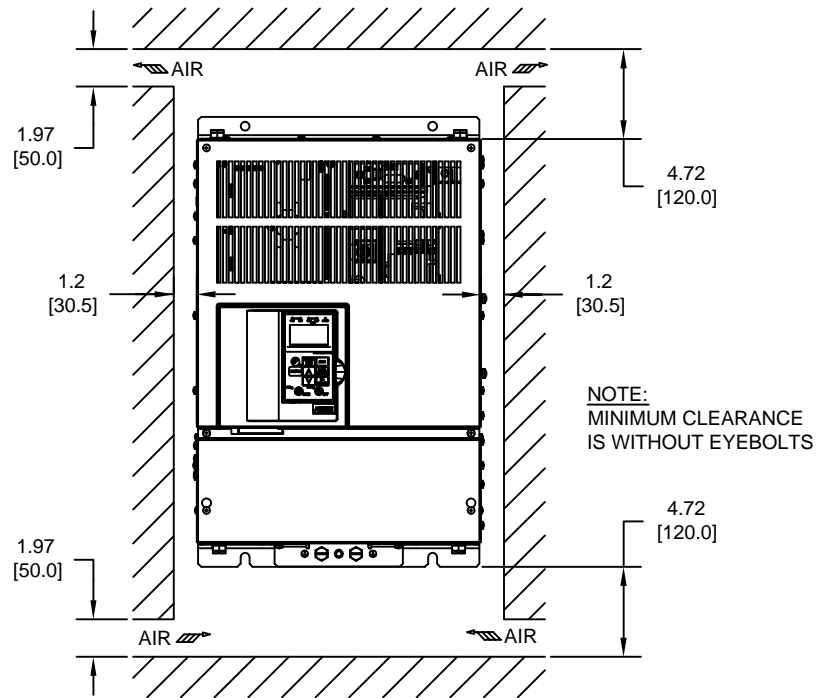
MODEL #	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)
CIMR-E7U  2045	R/L1, S/L2, T/L3, ⊖, ⊕1, R1/L11, S1/L21, T1/L31, U/T1, V/T2, W/T3, ⊕	M10	155 TO 198 (17.6 TO 22.5)
	⊕3	M8	77.4 TO 95.0 (8.8 TO 10.8)
	r/l1, s/l2	M4	11.4 TO 12.3 (1.3 TO 1.4)

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

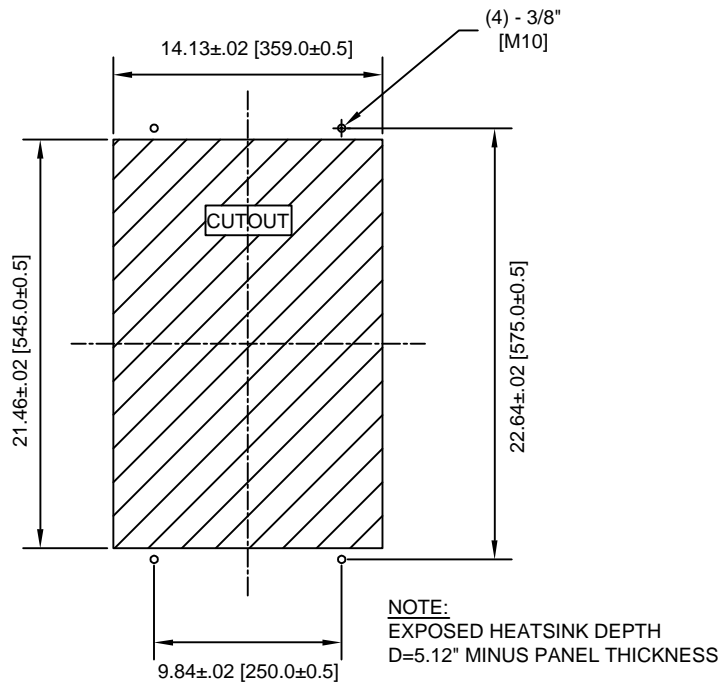
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - - -	<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p>YASKAWA ELECTRIC AMERICA, INC. Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS	DATE 4-14-05	TITLE: E7 DIMENSION DRAWING		
		CHECKED: M. RUCINSKI	DATE 5-3-05	FRAME SIZE 8		
		TECH: J. CAIRO	DATE 4-15-05	IP00 ENCLOSURE		
		APPROVED: T. SASADA	DATE 6-8-05	E7U2045		
UNITS: IN[mm]	SCALE: BY VIEW	ORIGINAL DESIGN: -	DATE -	SIZE A	REVISION R00	PAGE 2 of 3
				DRAWING #: DD.E7.FR8.IP00.01		


MINIMUM INSTALLATION CLEARANCES (SCALE 1:10)



PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:10)



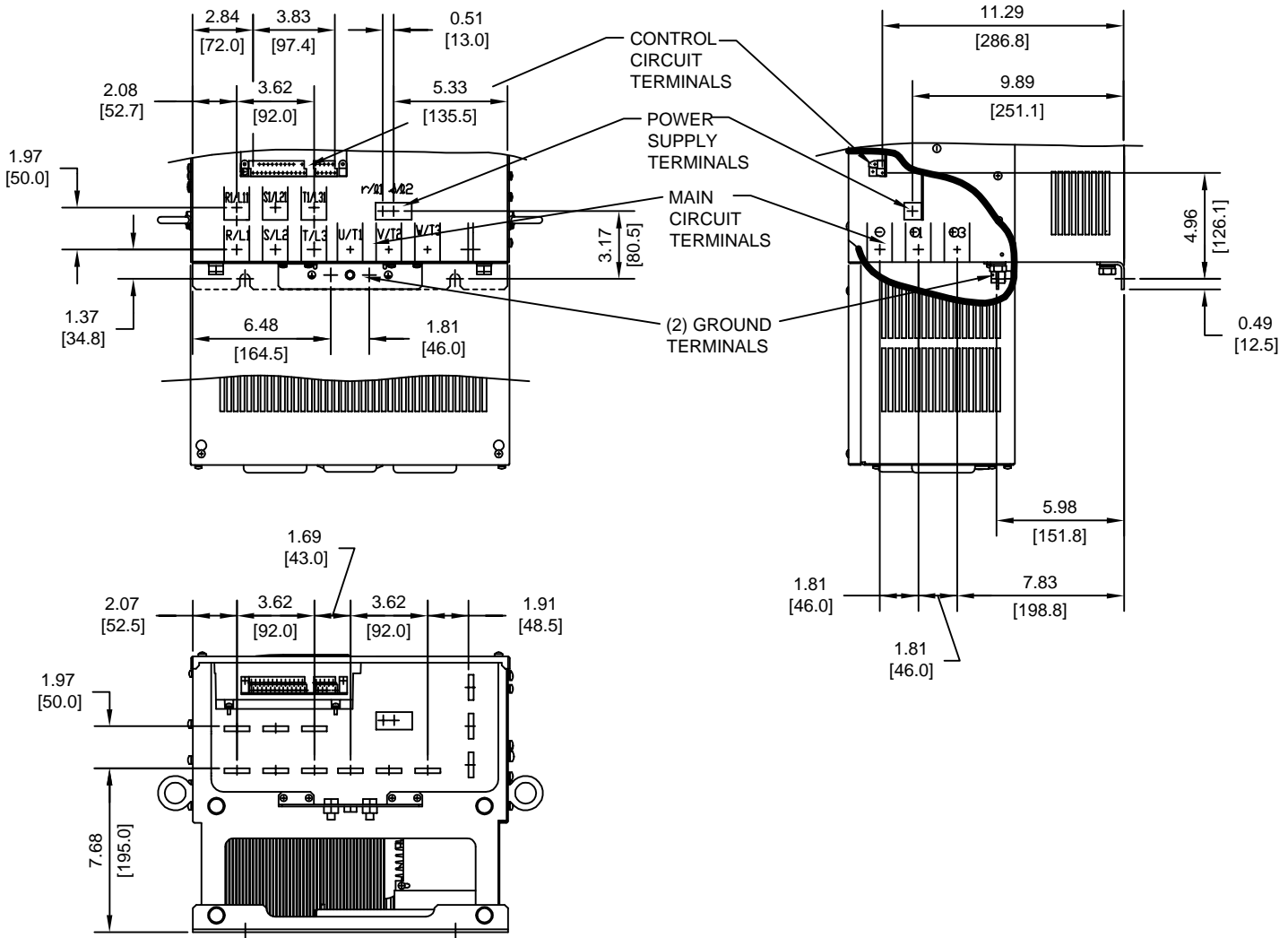
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: -		 <b>YASKAWA</b> <i>A World of Automation Solutions™</i> <b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA <a href="http://www.yaskawa.com">http://www.yaskawa.com</a>	DRAWN: <b>J. MATTAS</b> DATE: <b>4-14-05</b>	TITLE: <b>E7 DIMENSION DRAWING</b>
UNITS: <b>IN[mm]</b>	SCALE: <b>BY VIEW</b>		CHECKED: <b>M. RUCINSKI</b> DATE: <b>5-3-05</b>	DATE: <b>5-3-05</b>
		TECH: <b>J. CAIRO</b> DATE: <b>4-15-05</b>	DATE: <b>4-15-05</b>	SIZE: <b>A</b>
		APPROVED: <b>T. SASADA</b> DATE: <b>6-8-05</b>	DATE: <b>6-8-05</b>	REVISION: <b>R00</b>
		ORIGINAL DESIGN: -	DATE: -	PAGE: <b>3 of 3</b>
		DRAWING #: <b>DD.E7.FR8.IP00.01</b>		





TERMINAL AND WIRING DETAILS (SCALE 1:8)



TERMINAL SPECIFICATIONS FOR MAIN CIRCUIT AND GROUND

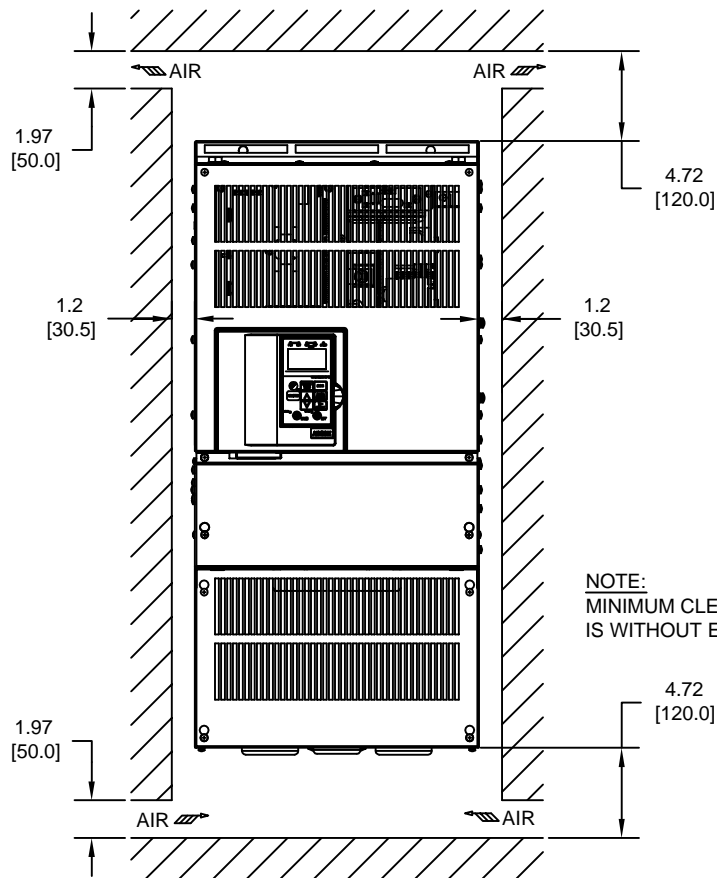
MODEL #	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)
2045	R/L1, S/L2, T/L3, ⓪, ⊕1, R1/L11, S1/L21, T1/L31, U/T1, V/T2, W/T3, ⊕	M10	155 TO 198 (17.6 TO 22.5)
	⊕3	M8	77.4 TO 95.0 (8.8 TO 10.8)
	r/l1, s/l2	M4	11.4 TO 12.3 (1.3 TO 1.4)

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

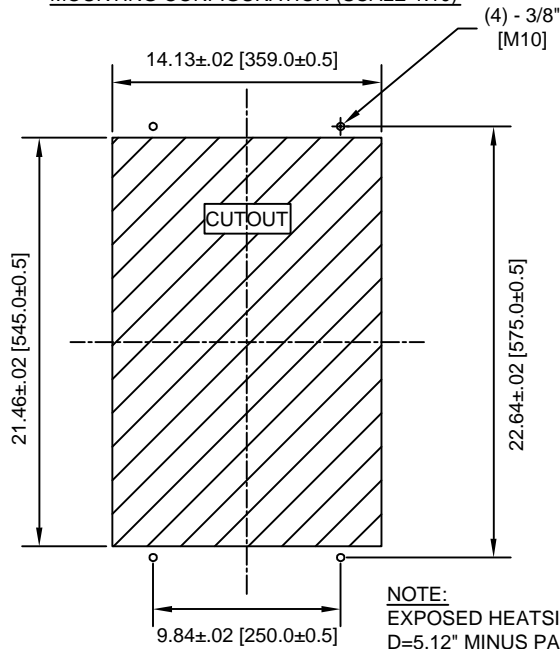
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - - -	<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p>YASKAWA ELECTRIC AMERICA, INC. Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS	DATE 3-30-05	TITLE: E7 DIMENSION DRAWING		
		CHECKED: M. RUCINSKI	DATE 5-3-05	FRAME SIZE 8		
		TECH: J. CAIRO	DATE 3-31-05	NEMA TYPE 1/IP20 ENCLOSURE		
		APPROVED: T. SASADA	DATE 6-6-05	E7U2045		
UNITS: IN[mm]	SCALE: BY VIEW	ORIGINAL DESIGN: -	DATE -	SIZE A	REVISION R00	PAGE 2 of 3
				DRAWING #: <b>DD.E7.FR8.N1.01</b>		

MINIMUM INSTALLATION CLEARANCES (SCALE 1:10)



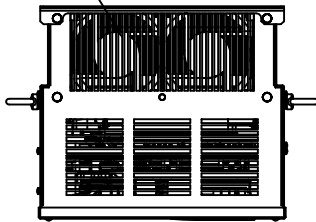
PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:10)



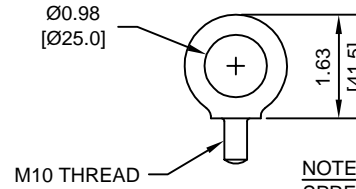
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: -		<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p><b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS DATE 3-30-05	TITLE: E7 DIMENSION DRAWING FRAME SIZE 8 NEMA TYPE 1/IP20 ENCLOSURE E7U2045
UNITS: IN[mm]	SCALE: BY VIEW		CHECKED: M. RUCINSKI DATE 5-3-05	REVISION R00 PAGE 3 of 3
		TECH: J. CAIRO DATE 3-31-05	DATE 6-6-05	DRAWING #: DD.E7.FR8.N1.01
		APPROVED: T. SASADA DATE -	DATE -	

(2) EXTERNAL COOLING FANS

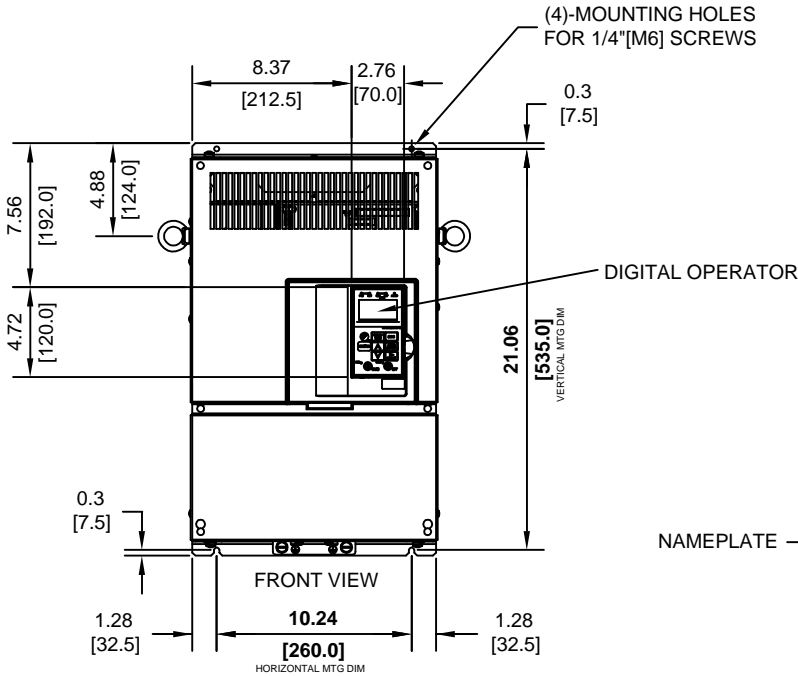


LIFTING AND EYEBOLT DETAILS



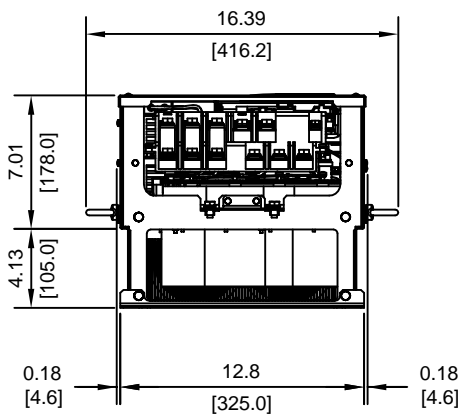
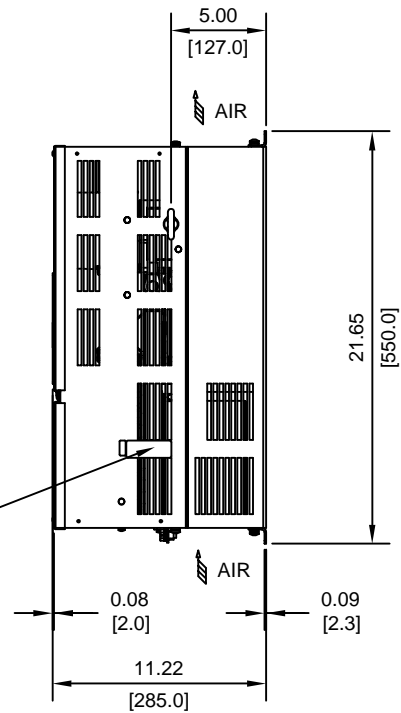
NOTE:  
SPREADER BAR REQUIRED TO AVOID DAMAGE DURING LIFTING

(4)-MOUNTING HOLES FOR 1/4" [M6] SCREWS



DIGITAL OPERATOR

NAMEPLATE



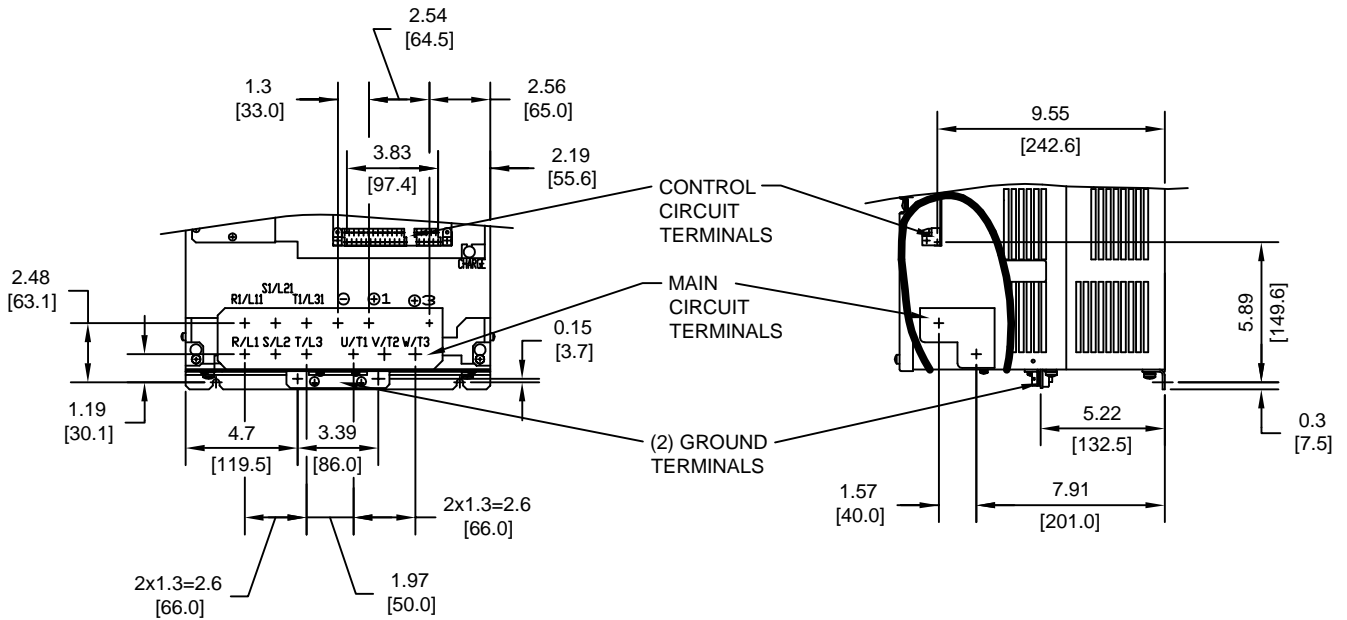
MODEL #	VOLTAGE (VAC)	OUTPUT CURRENT (A)	WEIGHT LBS (Kg)	HEAT LOSS (W)		
				INT	EXT	TOTAL
4037	480	77	79 (36)	332	801	1133
4045		96	79 (36)	386	901	1287
4055		125	79 (36)	478	1204	1682

INT=INTERNAL COMPONENTS  
EXT=EXTERNAL HEATSINK

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: -	<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p><b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS DATE: 4-14-05	TITLE: E7 DIMENSION DRAWING FRAME SIZE 9 IP00 ENCLOSURE E7U4037 TO 4055			
		CHECKED: M. RUCINSKI DATE: 5-3-05	TECH: J. CAIRO DATE: 4-15-05	SIZE: A	REVISION: R00	PAGE: 1 of 3
		APPROVED: T. SASADA DATE: 6-8-05	ORIGINAL DESIGN: -	DATE: -	DRAWING #: DD.E7.FR9.IP00.01	

TERMINAL AND WIRING DETAILS (SCALE 1:8)




TERMINAL AND WIRE SPECIFICATIONS FOR  
MAIN CIRCUIT AND GROUND

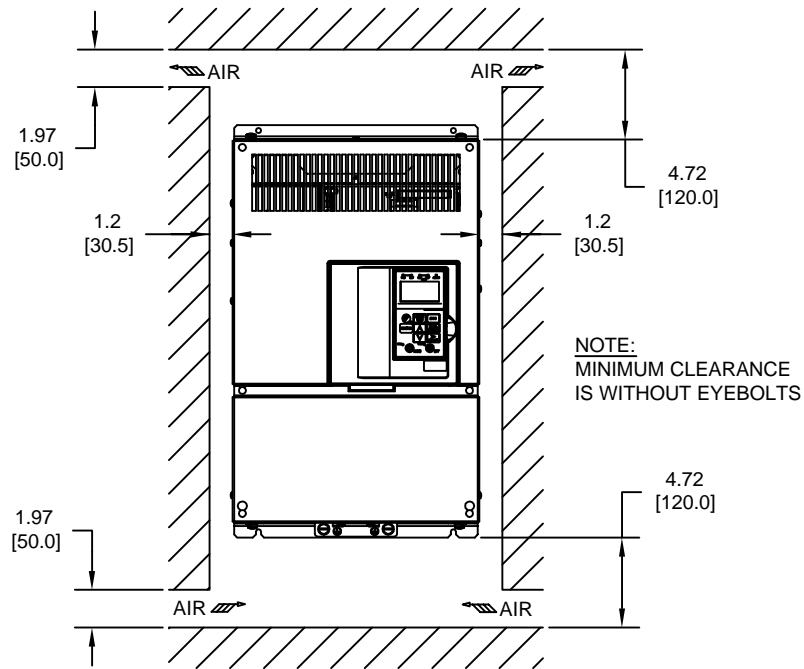
MODEL # CIMR-E7U	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)	WIRE RANGE AWG(mm <sup>2</sup> )
4037	R/L1, S/L2, T/L3, ⊙, ⊕1, R1/L11, S1/L21, T1/L31, U/T1, V/T2, W/T3	M8	79.2 TO 88.0 (9.0 TO 10.0)	8-1/0 (8-60)
	⊕3	M6	35.2 TO 44.0 (4.0 TO 5.0)	8-4 (8-22)
	⊕	M8	79.2 TO 88.0 (9.0 TO 10.0)	SEE NOTE
4045	R/L1, S/L2, T/L3, ⊙, ⊕1, R1/L11, S1/L21, T1/L31, U/T1, V/T2, W/T3	M8	79.2 TO 88.0 (9.0 TO 10.0)	8-1/0 (8-60)
	⊕3	M6	35.2 TO 44.0 (4.0 TO 5.0)	8-4 (8-22)
	⊕	M8	79.2 TO 88.0 (9.0 TO 10.0)	SEE NOTE
4055	R/L1, S/L2, T/L3, ⊙, ⊕1, R1/L11, S1/L21, T1/L31, U/T1, V/T2, W/T3	M8	79.2 TO 88.0 (9.0 TO 10.0)	8-1/0 (8-60)
	⊕3	M6	35.2 TO 44.0 (4.0 TO 5.0)	8-4 (8-22)
	⊕	M8	79.2 TO 88.0 (9.0 TO 10.0)	SEE NOTE

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

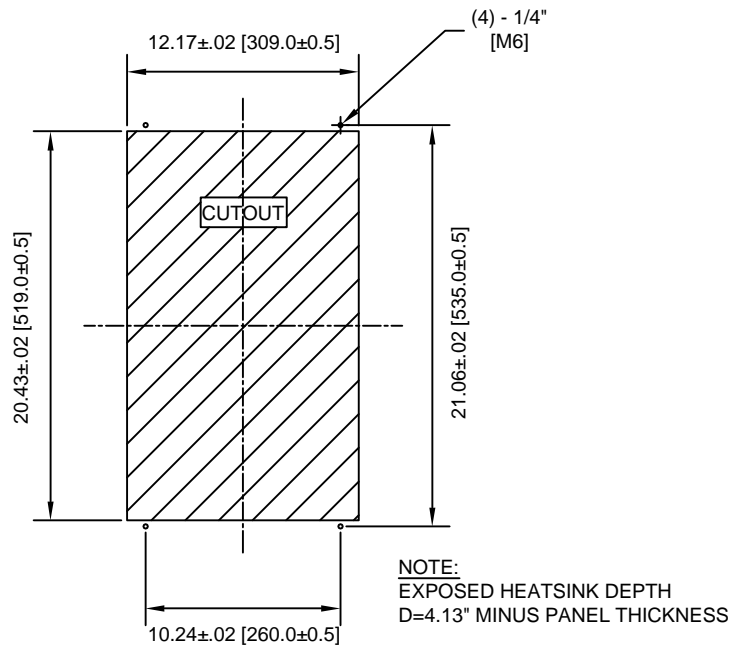
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - - -	 <b>YASKAWA</b> <i>A World of Automation Solutions™</i> <b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA <a href="http://www.yaskawa.com">http://www.yaskawa.com</a>	DRAWN: J. MATTAS	DATE 4-14-05	TITLE: E7 DIMENSION DRAWING		
		CHECKED: M. RUCINSKI	DATE 5-3-05	FRAME SIZE 9		
		TECH: J. CAIRO	DATE 4-15-05	IP00 ENCLOSURE		
		APPROVED: T. SASADA	DATE 6-8-05	E7U4037 TO 4055		
UNITS: IN[mm]	SCALE: BY VIEW	ORIGINAL DESIGN: -	DATE -	SIZE A	REVISION R00	PAGE 2 of 3
				DRAWING #: <b>DD.E7.FR9.IP00.01</b>		


MINIMUM INSTALLATION CLEARANCES (SCALE 1:10)



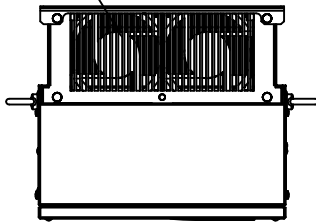
PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:10)



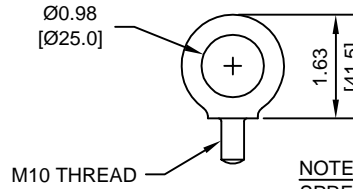
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: -		 <b>YASKAWA</b> <i>A World of Automation Solutions™</i> <b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA <a href="http://www.yaskawa.com">http://www.yaskawa.com</a>	DRAWN: J. MATTAS	DATE 4-14-05	TITLE: E7 DIMENSION DRAWING		
UNITS: IN[mm]			SCALE: BY VIEW	CHECKED: M. RUCINSKI	DATE 5-3-05	FRAME SIZE 9	
			TECH: J. CAIRO	DATE 4-15-05	IP00 ENCLOSURE		
			APPROVED: T. SASADA	DATE 6-8-05	SIZE A	REVISION R00	PAGE 3 of 3
			ORIGINAL DESIGN: -	DATE -	DRAWING #: DD.E7.FR9.IP00.01		

(2) EXTERNAL COOLING FANS



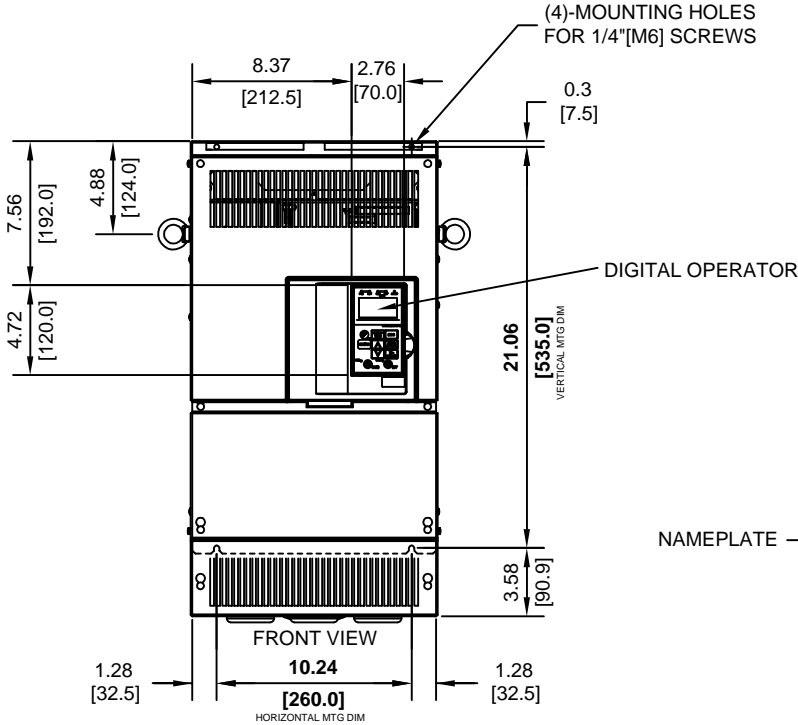
LIFTING AND EYEBOLT DETAILS



M10 THREAD

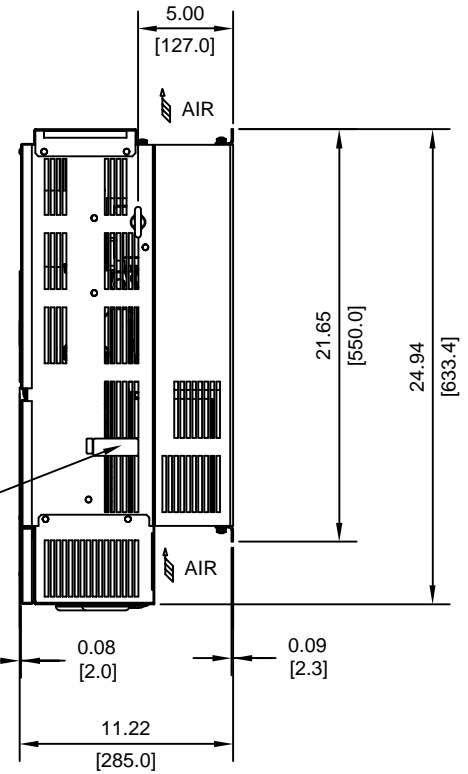
NOTE:  
SPREADER BAR REQUIRED TO  
AVOID DAMAGE DURING LIFTING

(4)-MOUNTING HOLES  
FOR 1/4" [M6] SCREWS



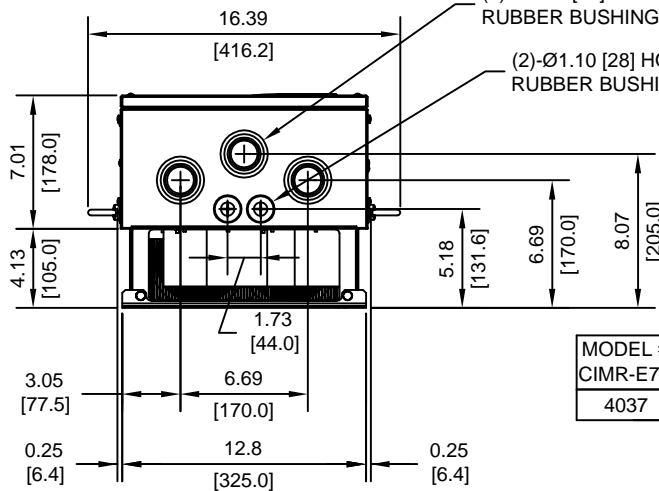
DIGITAL OPERATOR

NAMEPLATE



(3)-Ø1.97 [50] HOLE WITH  
RUBBER BUSHING

(2)-Ø1.10 [28] HOLE WITH  
RUBBER BUSHING



MODEL #	VOLTAGE (VAC)	OUTPUT CURRENT (A)	WEIGHT LBS (Kg)	HEAT LOSS (W)		
				INT	EXT	TOTAL
CIMR-E7U	480	77	88 (40)	332	801	1133

INT=INTERNAL COMPONENTS  
EXT=EXTERNAL HEATSINK

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES:

UNITS: IN[mm] SCALE: 1:10

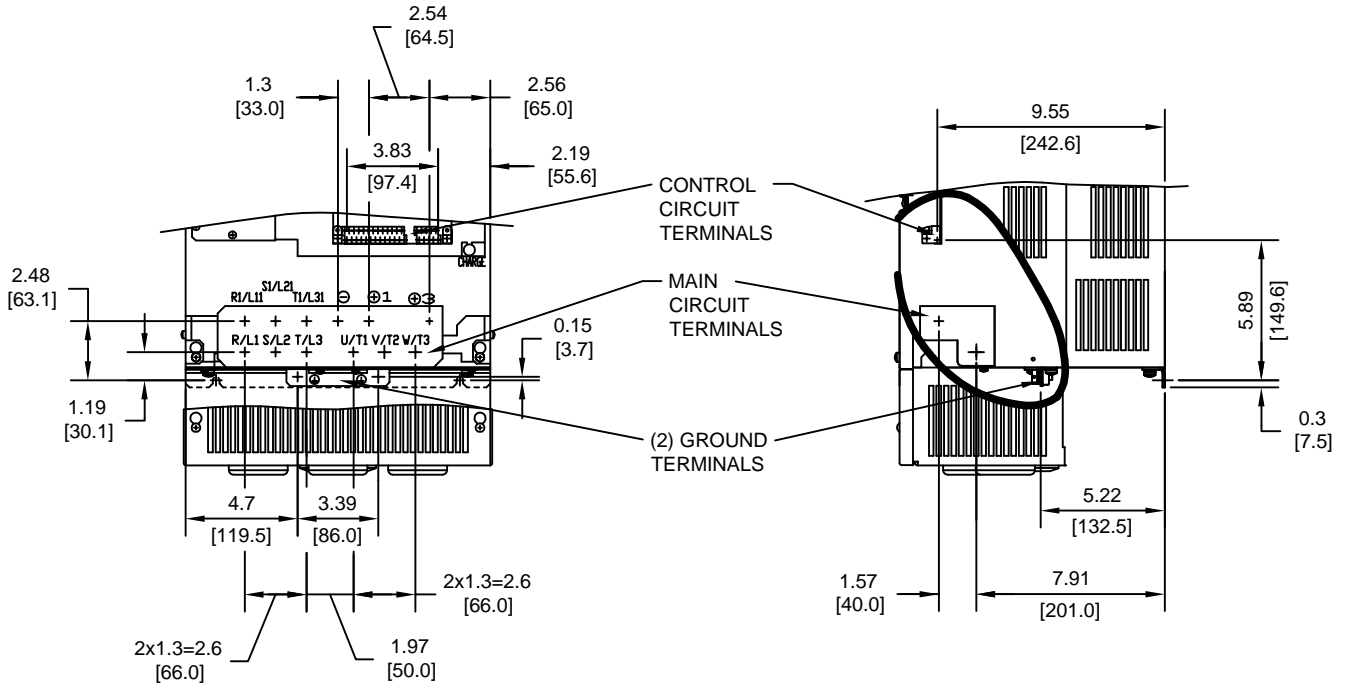
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Waukegan, IL 60085  
1-800-YASKAWA  
http://www.yaskawa.com

DRAWN: J. MATTAS	DATE 4-27-05
CHECKED: M. RUCINSKI	DATE 6-6-05
TECH: J. CAIRO	DATE 4-28-05
APPROVED: T. SASADA	DATE 6-6-05
ORIGINAL DESIGN: -	DATE -

TITLE: E7 DIMENSION DRAWING FRAME SIZE 9A NEMA TYPE 1/IP20 ENCLOSURE E7U4037		
SIZE A	REVISION R00	PAGE 1 of 3
DRAWING #: DD.E7.FR9A.N1.01		

TERMINAL AND WIRING DETAILS (SCALE 1:8)



TERMINAL AND WIRE SPECIFICATIONS FOR  
MAIN CIRCUIT AND GROUND

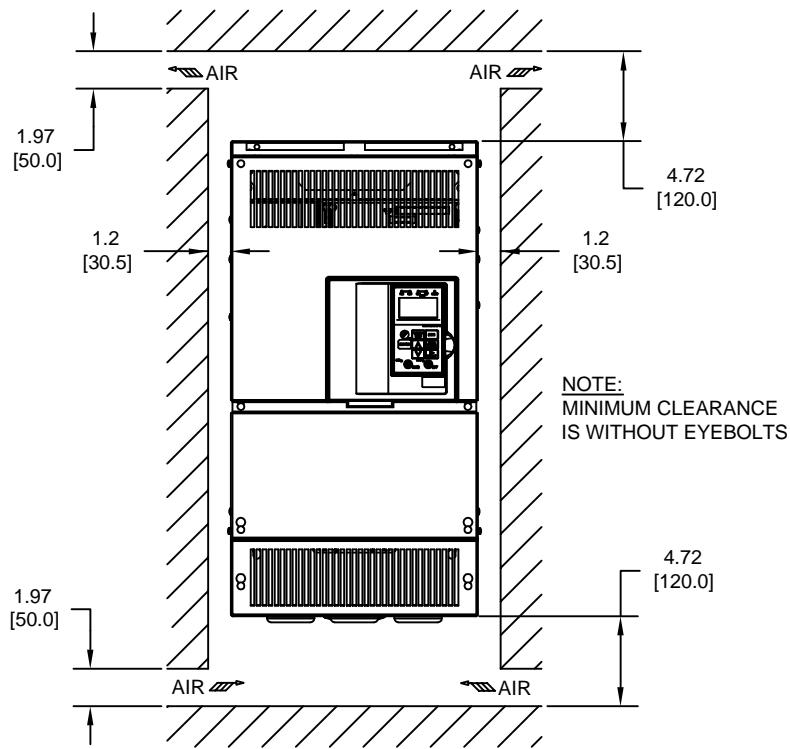
MODEL # CIMR-E7U	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)	WIRE RANGE AWG(mm <sup>2</sup> )
4037	R/L1, S/L2, T/L3, ⊕, ⊕1, R1/L11, S1/L21, T1/L31, U/T1, V/T2, W/T3	M8	79.2 TO 88.0 (9.0 TO 10.0)	8-1/0 (8-60)
	⊕3	M6	35.2 TO 44.0 (4.0 TO 5.0)	8-4 (8-22)
	⊕	M8	79.2 TO 88.0 (9.0 TO 10.0)	SEE NOTE

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

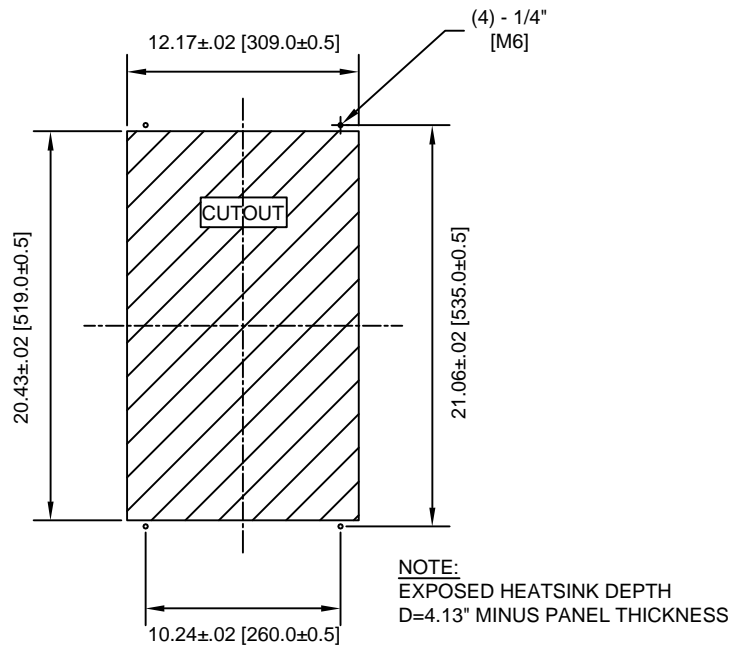
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - - - - - - -	 <b>YASKAWA</b> <i>A World of Automation Solutions™</i> <b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA <a href="http://www.yaskawa.com">http://www.yaskawa.com</a>	DRAWN: J. MATTAS	DATE <b>4-27-05</b>	TITLE: E7 DIMENSION DRAWING		
		CHECKED: M. RUCINSKI	DATE <b>6-6-05</b>	FRAME SIZE 9A		
		TECH: J. CAIRO	DATE <b>4-28-05</b>	NEMA TYPE 1/IP20 ENCLOSURE		
		APPROVED: T. SASADA	DATE <b>6-6-05</b>	E7U4037		
UNITS: IN[mm]	SCALE: BY VIEW	ORIGINAL DESIGN: -	DATE -	SIZE A	REVISION R00	PAGE 2 of 3
				DRAWING #: <b>DD.E7.FR9A.N1.01</b>		


MINIMUM INSTALLATION CLEARANCES (SCALE 1:10)



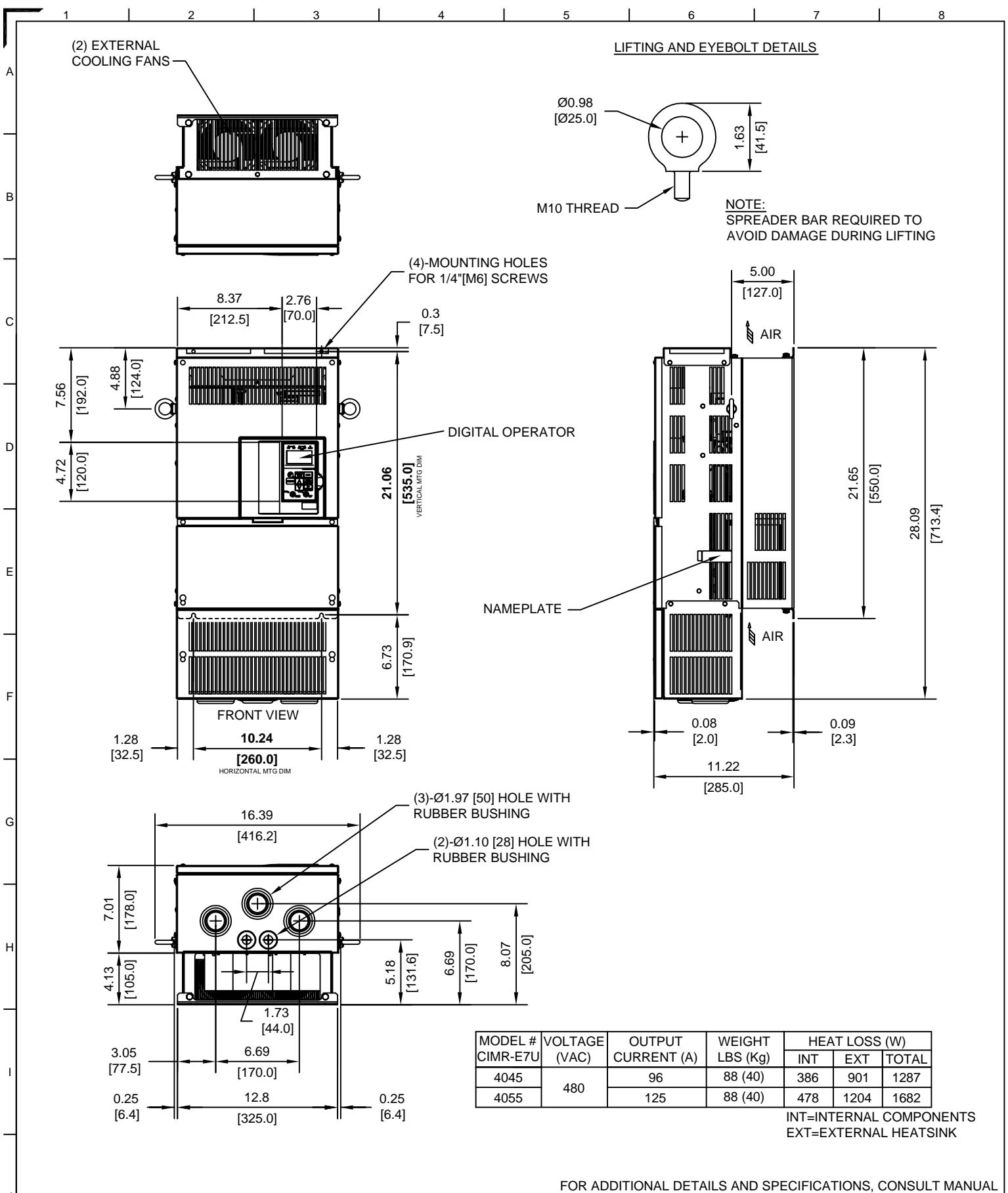
PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:10)



FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: -		 <b>YASKAWA</b> <i>A World of Automation Solutions™</i> <b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA <a href="http://www.yaskawa.com">http://www.yaskawa.com</a>	DRAWN: J. MATTAS DATE 4-27-05	DATE 4-27-05	TITLE: E7 DIMENSION DRAWING
UNITS: IN[mm]	SCALE: BY VIEW		CHECKED: M. RUCINSKI DATE 6-6-05	DATE 6-6-05	FRAME SIZE 9A
		TECH: J. CAIRO DATE 4-28-05	DATE 6-6-05	NEMA TYPE 1/IP20 ENCLOSURE	
		APPROVED: T. SASADA ORIGINAL DESIGN: -	DATE -	REVISION R00	PAGE 3 of 3
		DRAWING #: <b>DD.E7.FR9A.N1.01</b>			





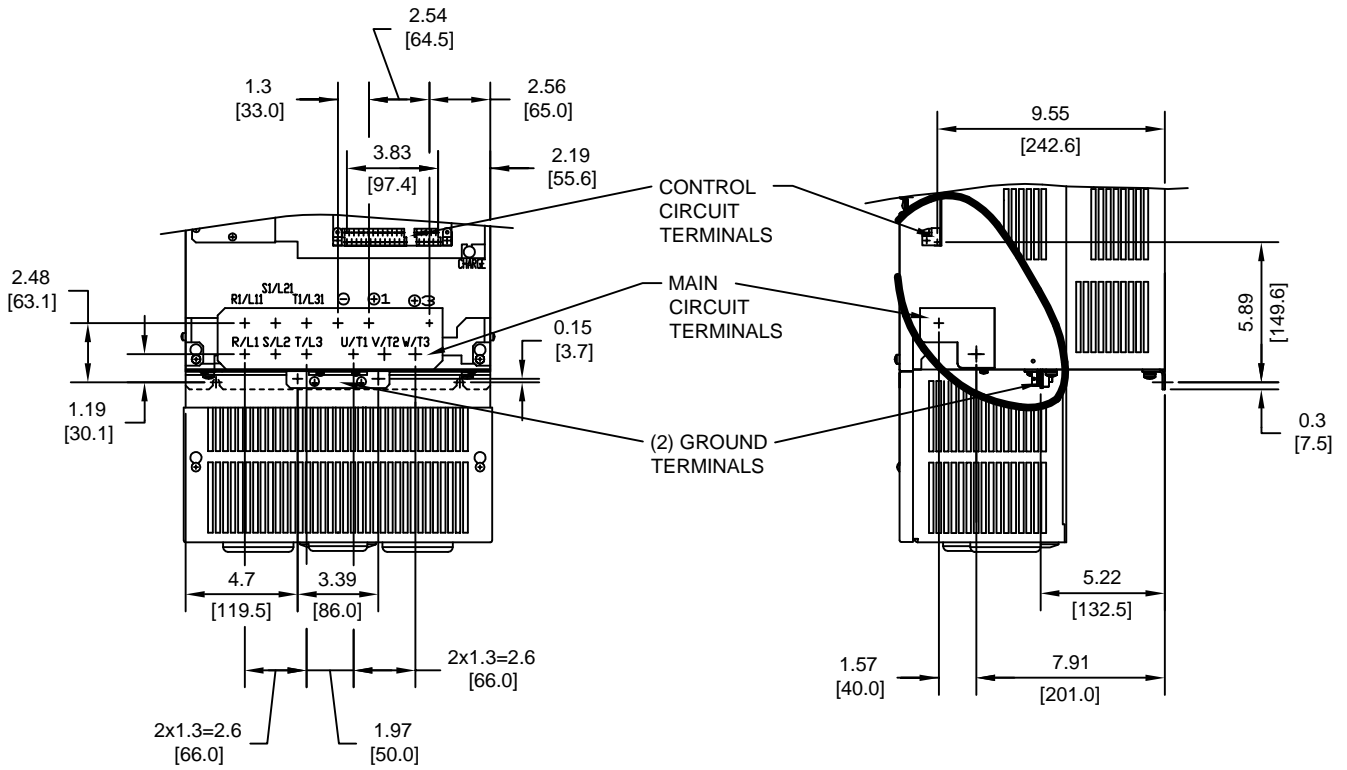
MODEL # CIMR-E7U	VOLTAGE (VAC)	OUTPUT CURRENT (A)	WEIGHT LBS (Kg)	HEAT LOSS (W)		
				INT	EXT	TOTAL
4045	480	96	88 (40)	386	901	1287
4055		125	88 (40)	478	1204	1682

INT=INTERNAL COMPONENTS  
EXT=EXTERNAL HEATSINK

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - - - - - - -	<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p><b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS	DATE 4-27-05	TITLE: E7 DIMENSION DRAWING		
		CHECKED: M. RUCINSKI	DATE 6-6-05	FRAME SIZE 9B		
		TECH: J. CAIRO	DATE 4-28-05	NEMA TYPE 1/IP20 ENCLOSURE		
		APPROVED: T. SASADA	DATE 6-6-05	E7U4045 TO 4055		
UNITS: IN[mm]	SCALE: 1:10	ORIGINAL DESIGN: -	DATE -	SIZE A	REVISION R00	PAGE 1 of 3
				<b>DRAWING #: DD.E7.FR9B.N1.01</b>		

TERMINAL AND WIRING DETAILS (SCALE 1:8)




TERMINAL AND WIRE SPECIFICATIONS FOR  
MAIN CIRCUIT AND GROUND

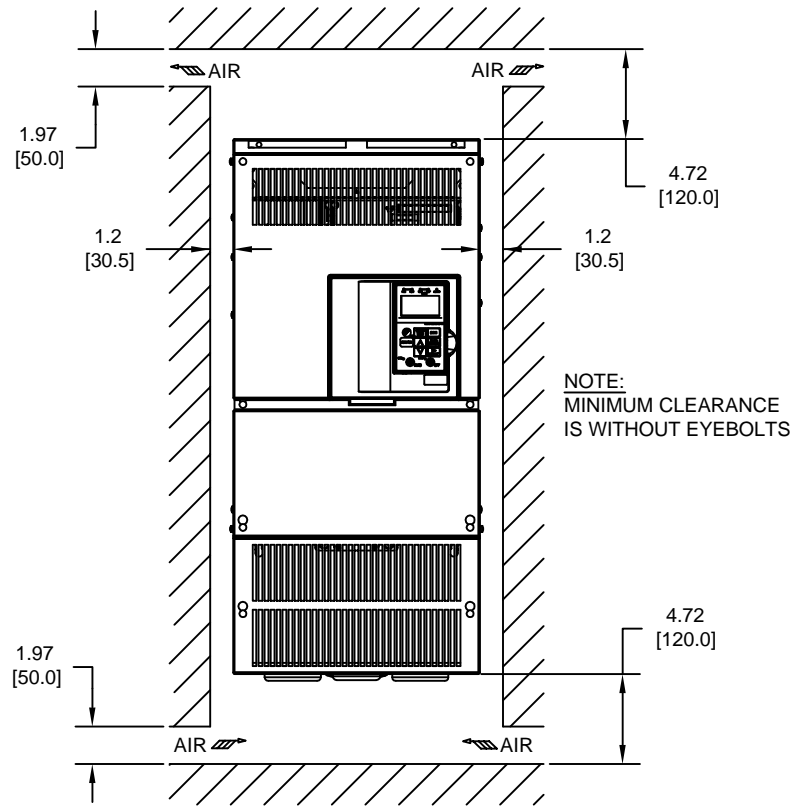
MODEL # CIMR-E7U	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)	WIRE RANGE AWG(mm <sup>2</sup> )
4045	R/L1, S/L2, T/L3, ⊖, ⊕1, R1/L11, S1/L21, T1/L31, U/T1, V/T2, W/T3	M8	79.2 TO 88.0 (9.0 TO 10.0)	8-1/0 (8-60)
	⊕3	M6	35.2 TO 44.0 (4.0 TO 5.0)	8-4 (8-22)
	⊕	M8	79.2 TO 88.0 (9.0 TO 10.0)	SEE NOTE
4055	R/L1, S/L2, T/L3, ⊖, ⊕1, R1/L11, S1/L21, T1/L31, U/T1, V/T2, W/T3	M8	79.2 TO 88.0 (9.0 TO 10.0)	8-1/0 (8-60)
	⊕3	M6	35.2 TO 44.0 (4.0 TO 5.0)	8-4 (8-22)
	⊕	M8	79.2 TO 88.0 (9.0 TO 10.0)	SEE NOTE

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

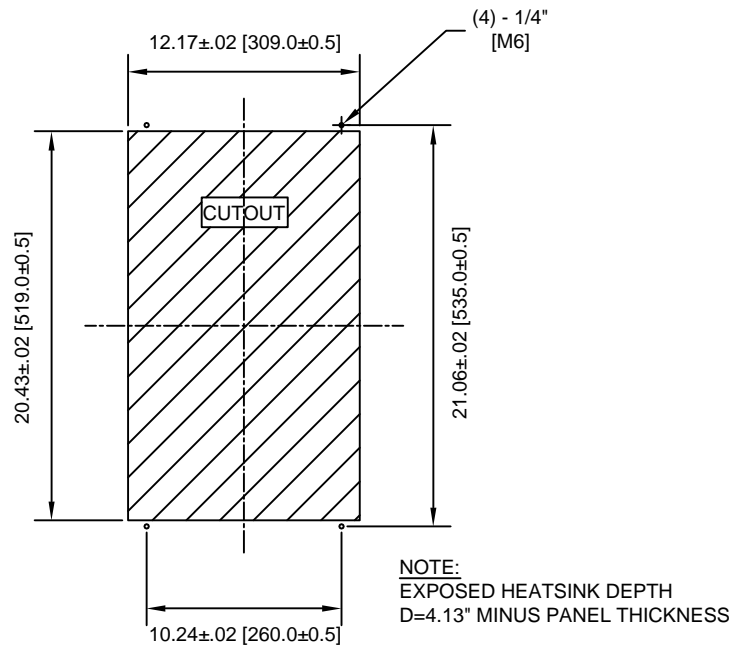
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - - -	 <b>YASKAWA</b> <i>A World of Automation Solutions™</i> <b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA <a href="http://www.yaskawa.com">http://www.yaskawa.com</a>	DRAWN: J. MATTAS	DATE <b>4-27-05</b>	TITLE: E7 DIMENSION DRAWING		
		CHECKED: M. RUCINSKI	DATE <b>6-6-05</b>	FRAME SIZE 9B		
		TECH: J. CAIRO	DATE <b>4-28-05</b>	NEMA TYPE 1/IP20 ENCLOSURE		
		APPROVED: T. SASADA	DATE <b>6-6-05</b>	E7U4045 TO 4055		
UNITS: IN[mm]	SCALE: BY VIEW	ORIGINAL DESIGN: -	DATE -	SIZE A	REVISION R00	PAGE 2 of 3
				DRAWING #: <b>DD.E7.FR9B.N1.01</b>		

MINIMUM INSTALLATION CLEARANCES (SCALE 1:10)

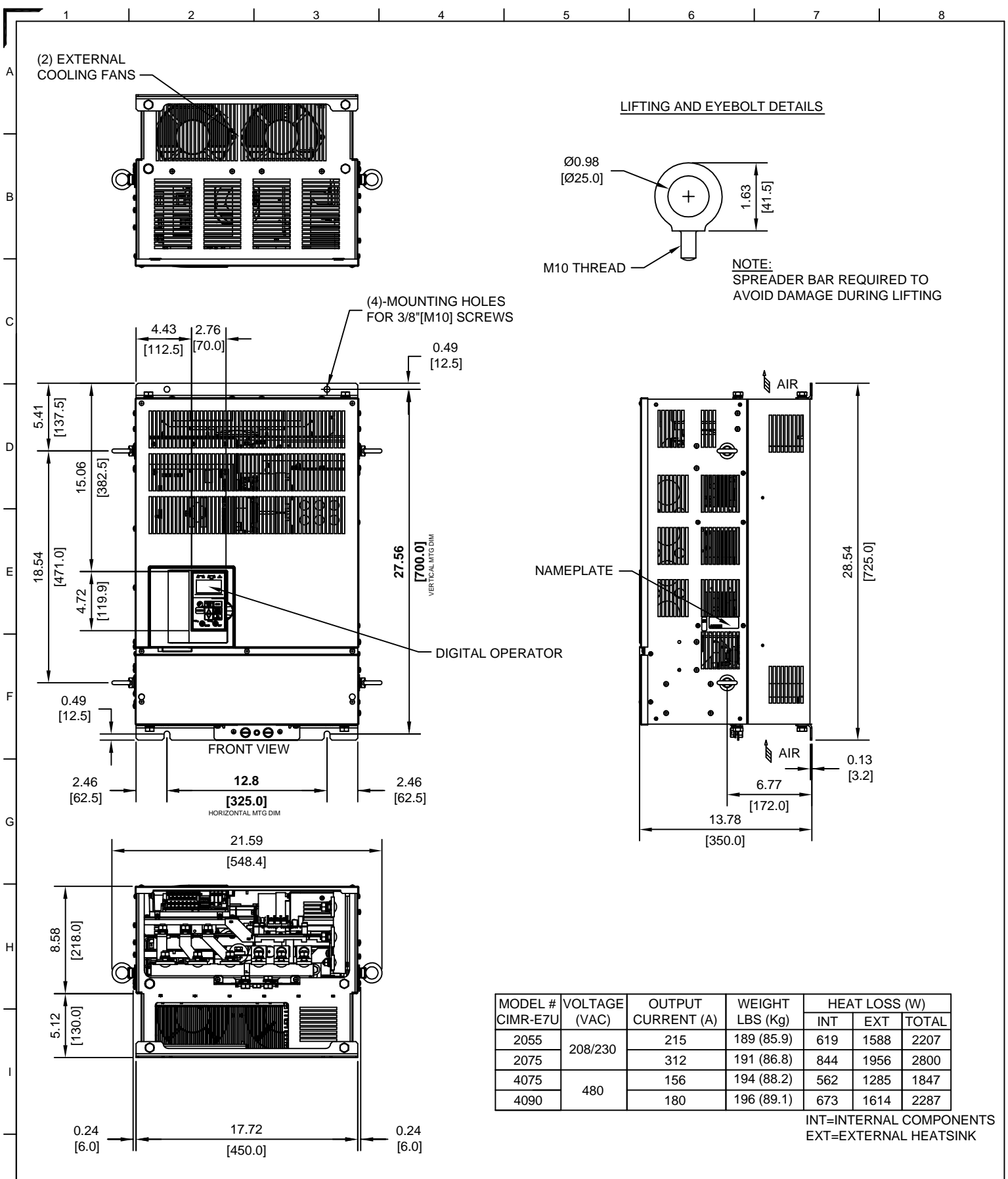


PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:10)



FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

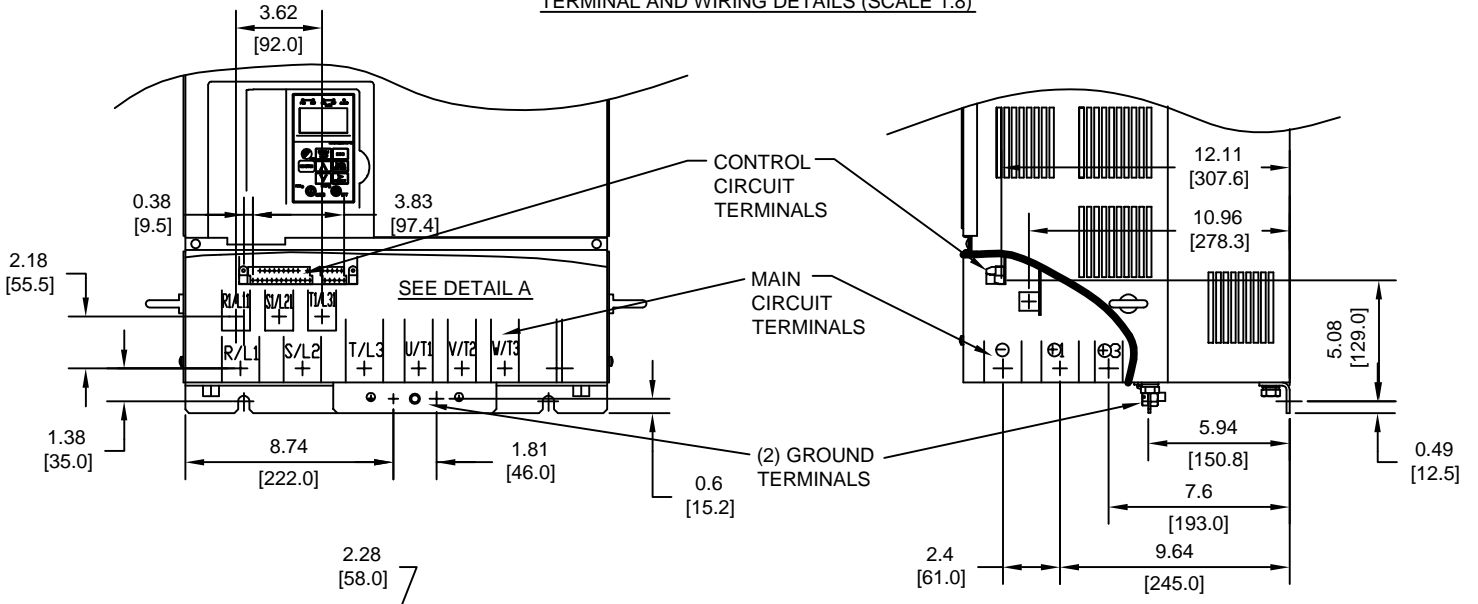
TOLERANCES/REFERENCES: -		<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p><b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS	DATE 4-27-05	TITLE: E7 DIMENSION DRAWING		
UNITS: IN[mm]			SCALE: BY VIEW	CHECKED: M. RUCINSKI	DATE 6-6-05	FRAME SIZE 9B	
			TECH: J. CAIRO	DATE 4-28-05	NEMA TYPE 1/IP20 ENCLOSURE		
			APPROVED: T. SASADA	DATE 6-6-05	SIZE A	REVISION R00	PAGE 3 of 3
			ORIGINAL DESIGN: -	DATE -	DRAWING #: DD.E7.FR9B.N1.01		



FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: -		<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p><b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS DATE 4-27-05	TITLE: E7 DIMENSION DRAWING FRAME SIZE 10 IP00 ENCLOSURE E7U2055 TO 2075, 4075 TO 4090		
UNITS: IN[mm]	SCALE: 1:10		CHECKED: M. RUCINSKI DATE 6-6-05	TECH: J. CAIRO DATE 4-28-05	SIZE A	REVISION R00
		APPROVED: T. SASADA DATE 6-8-05	ORIGINAL DESIGN: -	DRAWING #: DD.E7.FR10.IP00.01		

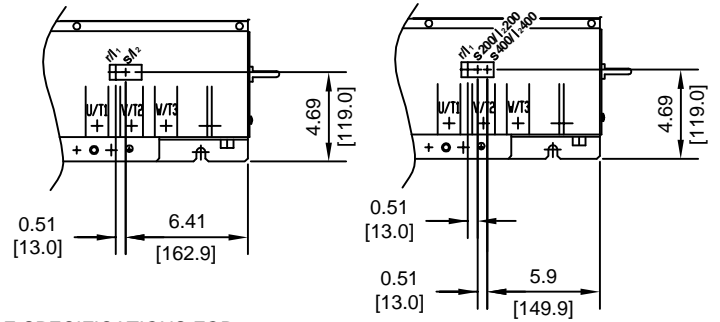
TERMINAL AND WIRING DETAILS (SCALE 1:8)



DETAIL A (SCALE 1:10)

MODELS E7U2055 AND E7U2075

MODELS E7U4075 AND E7U4090



TERMINAL AND WIRE SPECIFICATIONS FOR MAIN CIRCUIT AND GROUND

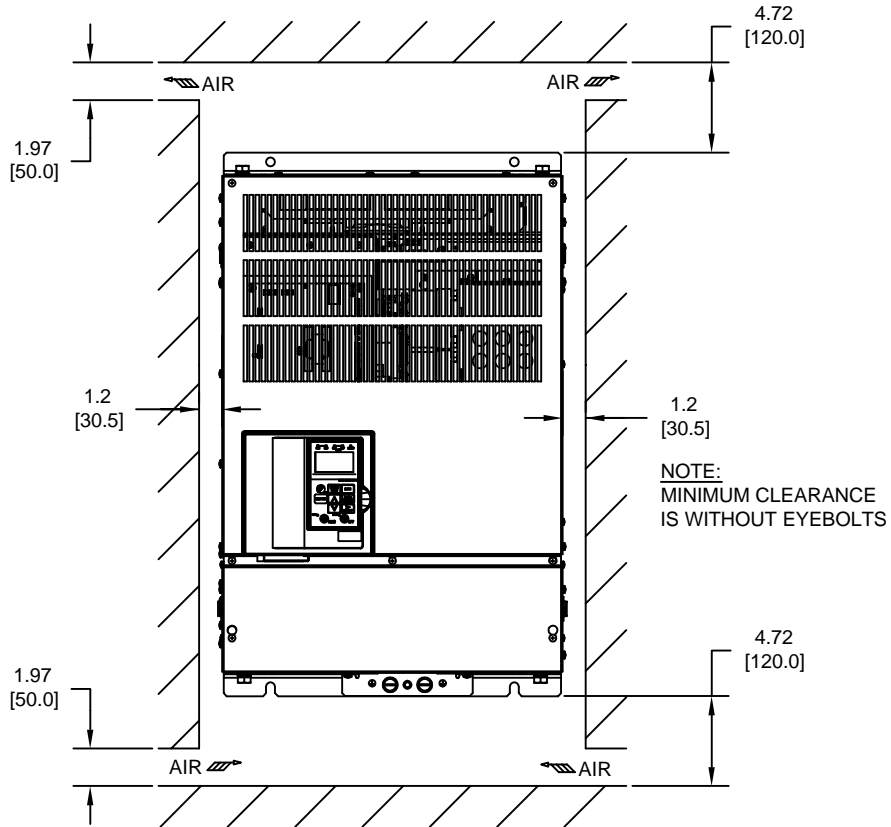
MODEL # CIMR-E7U	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)
2055	R/L1, S/L2, T/L3, ⊙, ⊕1, ⊕, U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M10	155 TO 198 (17.6 TO 22.5)
	⊕3	M8	78.0 TO 95.0 (8.8 TO 10.8)
	r1 1, s12	M4	11.4 TO 12.3 (1.3 TO 1.4)
2075	R/L1, S/L2, T/L3, U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M10	155 TO 198 (17.6 TO 22.5)
	⊕3	M8	78.0 TO 95.0 (8.8 TO 10.8)
	⊙, ⊕1, ⊕, r1 1, s12	M12 M4	277 TO 345 (31.4 TO 39.2) 11.4 TO 12.3 (1.3 TO 1.4)
4075	R/L1, S/L2, T/L3, ⊙, ⊕1, ⊕, U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M10	155 TO 198 (17.6 TO 22.5)
	⊕3	M8	78.0 TO 95.0 (8.8 TO 10.8)
	r1 1, s200/2200, s400/2400	M4	11.4 TO 12.3 (1.3 TO 1.4)
4090	R/L1, S/L2, T/L3, ⊙, ⊕1, ⊕, U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M10	155 TO 198 (17.6 TO 22.5)
	⊕3	M8	78.0 TO 95.0 (8.8 TO 10.8)
	r1 1, s200/2200, s400/2400	M4	11.4 TO 12.3 (1.3 TO 1.4)

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

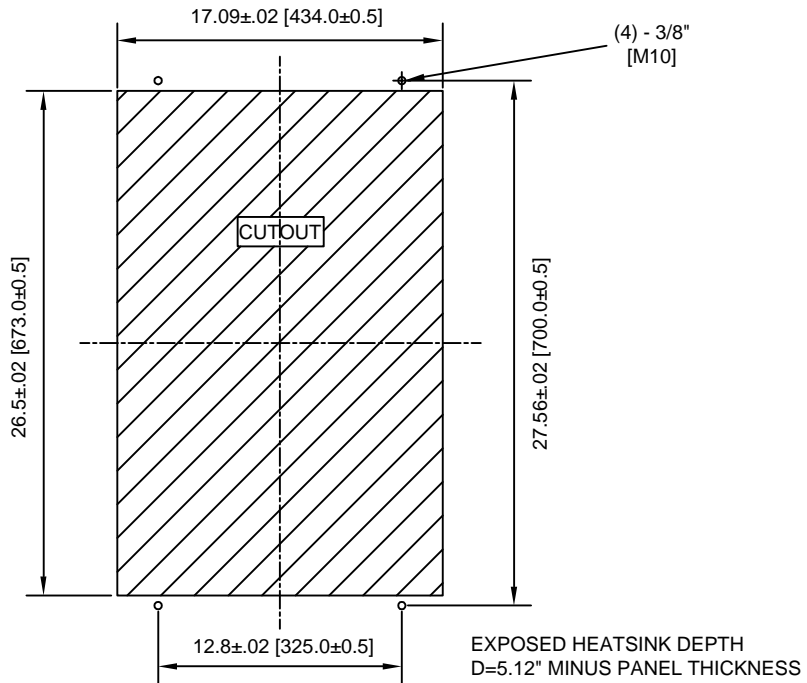
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - -	<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p>YASKAWA ELECTRIC AMERICA, INC. Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS	DATE 4-27-05	TITLE: E7 DIMENSION DRAWING		
		CHECKED: M. RUCINSKI	DATE 6-6-05	FRAME SIZE 10		
		TECH: J. CAIRO	DATE 4-28-05	IP00 ENCLOSURE		
		APPROVED: T. SASADA	DATE 6-6-05	E7U2055 TO 2075, 4075 TO 4090		
UNITS: IN[mm]	SCALE: BY VIEW	ORIGINAL DESIGN: -	DATE -	SIZE A	REVISION R00	PAGE 2 of 3
				DRAWING #: <b>DD.E7.FR10.IP00.01</b>		

MINIMUM INSTALLATION CLEARANCES (SCALE 1:10)



PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:10)

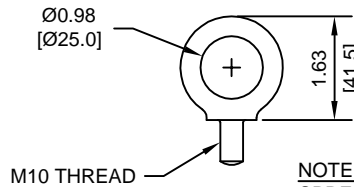


FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: -		<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p><b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS	DATE 4-27-05	TITLE: E7 DIMENSION DRAWING		
UNITS: IN[mm]	SCALE: BY VIEW		CHECKED: M. RUCINSKI	DATE 6-6-05	FRAME SIZE 10		
		TECH: J. CAIRO	DATE 4-28-05	IP00 ENCLOSURE			
		APPROVED: T. SASADA	DATE 6-6-05	SIZE A	REVISION R00	PAGE 3 of 3	
		ORIGINAL DESIGN: -	DATE -	DRAWING #: DD.E7.FR10.IP00.01			

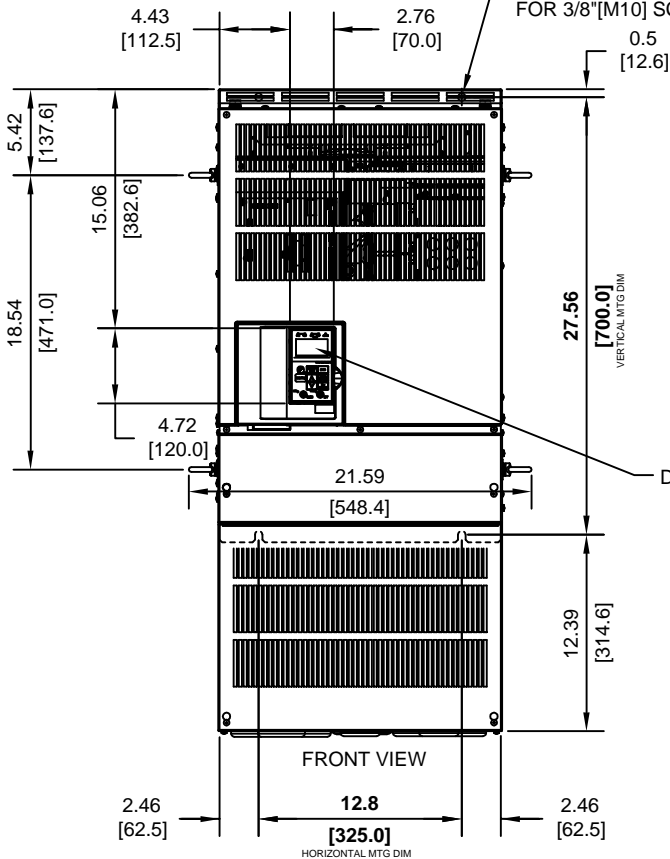
(2) EXTERNAL COOLING FANS

LIFTING AND EYEBOLT DETAILS



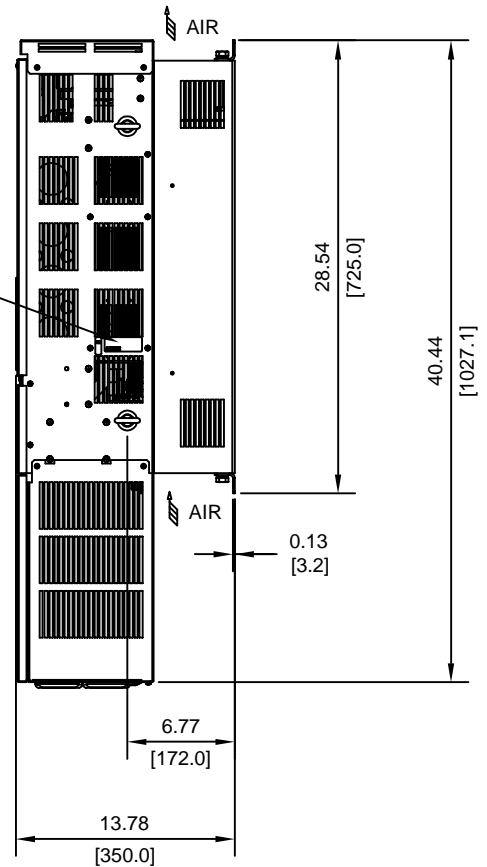
NOTE:  
SPREADER BAR REQUIRED TO AVOID DAMAGE DURING LIFTING

(4)-MOUNTING HOLES FOR 3/8" [M10] SCREWS  
0.5 [12.6]



NAMEPLATE

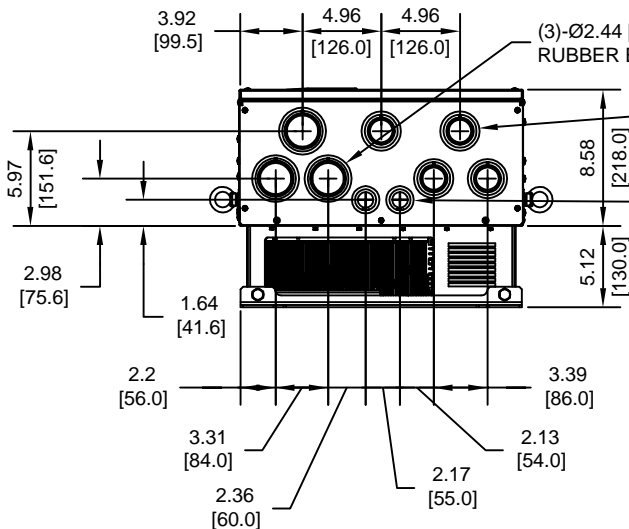
DIGITAL OPERATOR



(3)-Ø2.44 [62] HOLE WITH RUBBER BUSHING

(4)-Ø1.97 [50] HOLE WITH RUBBER BUSHING

(2)-Ø1.38 [35] HOLE WITH RUBBER BUSHING



MODEL #	VOLTAGE (VAC)	OUTPUT CURRENT (A)	WEIGHT LBS (Kg)	HEAT LOSS (W)		
				INT	EXT	TOTAL
2055	208/230	215	207 (94)	619	1588	2207
2075		312	209 (95)	844	1956	2800
4075	480	156	211 (96)	562	1285	1847
4090		180	213 (97)	673	1614	2287

INT=INTERNAL COMPONENTS  
EXT=EXTERNAL HEATSINK

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES:

UNITS: IN[mm]      SCALE: 1:12

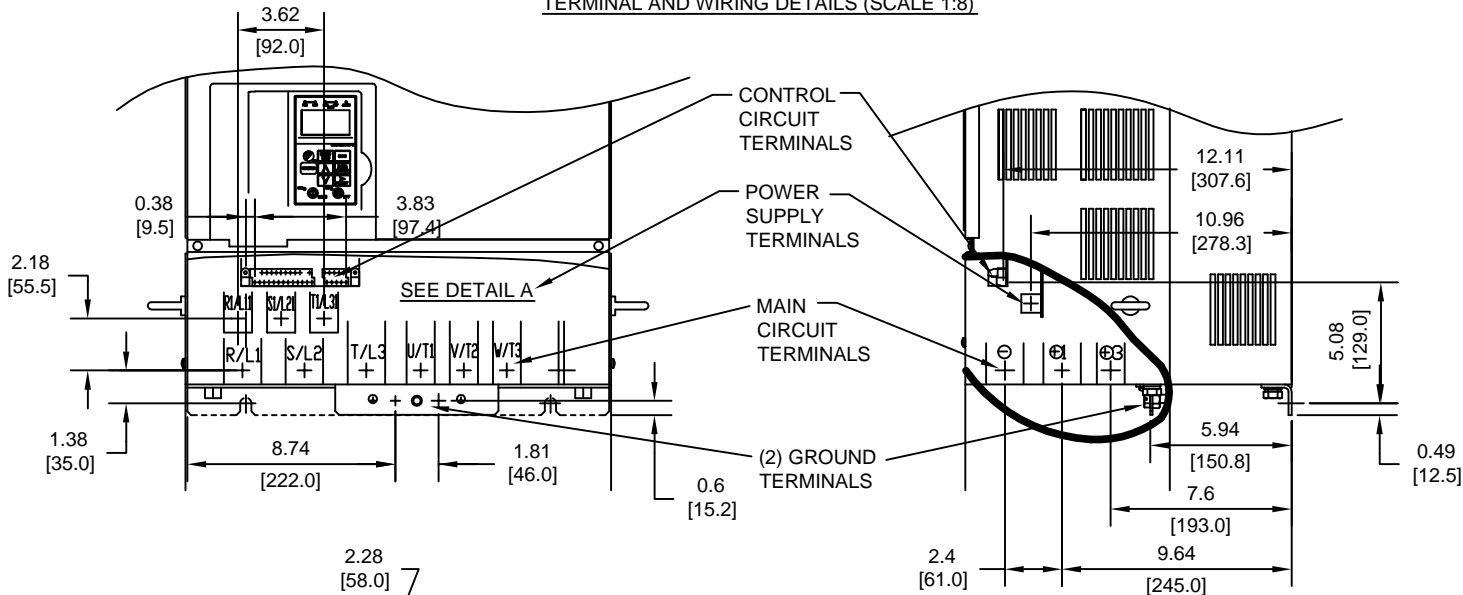
**YASKAWA**  
A World of Automation Solutions™

YASKAWA ELECTRIC AMERICA, INC.  
Corporate Headquarters  
2121 Norman Drive South  
Waukegan, IL 60085  
1-800-YASKAWA  
http://www.yaskawa.com

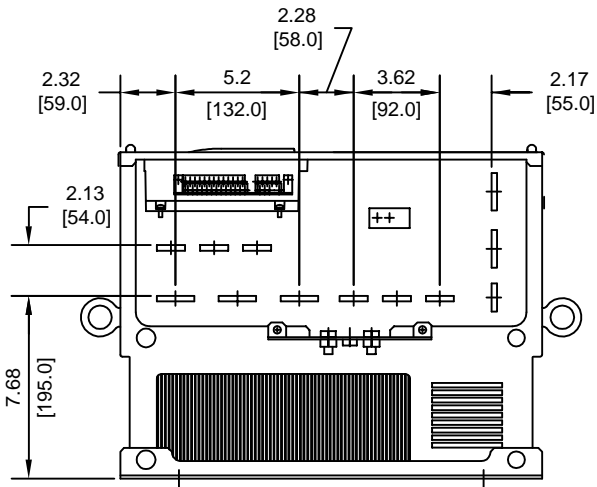
DRAWN: J. MATTAS	DATE: 3-30-05
CHECKED: M. RUCINSKI	DATE: 5-3-05
TECH: J. CAIRO	DATE: 3-31-05
APPROVED: T. SASADA	DATE: 6-8-05
ORIGINAL DESIGN: -	DATE: -

TITLE: E7 DIMENSION DRAWING		
FRAME SIZE 10		
NEMA TYPE 1/IP20 ENCLOSURE		
E7U2055 TO 2075, 4075 TO 4090		
SIZE: A	REVISION: R00	PAGE: 1 of 3
DRAWING #: DD.E7.FR10.N1.01		

TERMINAL AND WIRING DETAILS (SCALE 1:8)

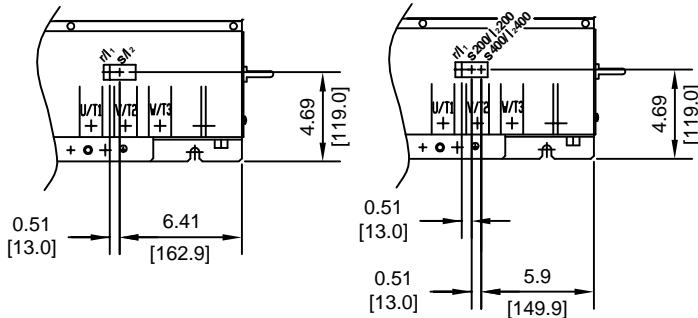


DETAIL A (SCALE 1:10)



MODELS E7U2055 AND E7U2075

MODELS E7U4075 AND E7U4090



TERMINAL AND WIRE SPECIFICATIONS FOR MAIN CIRCUIT AND GROUND

MODEL # CIMR-E7U	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)
2055	R/L1, S/L2, T/L3, ⊕, ⊕1, ⊕, U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M10	155 TO 198 (17.6 TO 22.5)
	⊕3	M8	78.0 TO 95.0 (8.8 TO 10.8)
	r1 1, s12	M4	11.4 TO 12.3 (1.3 TO 1.4)
2075	R/L1, S/L2, T/L3, U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M10	155 TO 198 (17.6 TO 22.5)
	⊕3	M8	78.0 TO 95.0 (8.8 TO 10.8)
	⊕, ⊕1, ⊕ r1 1, s12	M12 M4	277 TO 345 (31.4 TO 39.2) 11.4 TO 12.3 (1.3 TO 1.4)
4075	R/L1, S/L2, T/L3, ⊕, ⊕1, ⊕, U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M10	155 TO 198 (17.6 TO 22.5)
	⊕3	M8	78.0 TO 95.0 (8.8 TO 10.8)
	r1 1, s200/2200, s400/2400	M4	11.4 TO 12.3 (1.3 TO 1.4)
4090	R/L1, S/L2, T/L3, ⊕, ⊕1, ⊕, U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M10	155 TO 198 (17.6 TO 22.5)
	⊕3	M8	78.0 TO 95.0 (8.8 TO 10.8)
	r1 1, s200/2200, s400/2400	M4	11.4 TO 12.3 (1.3 TO 1.4)

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

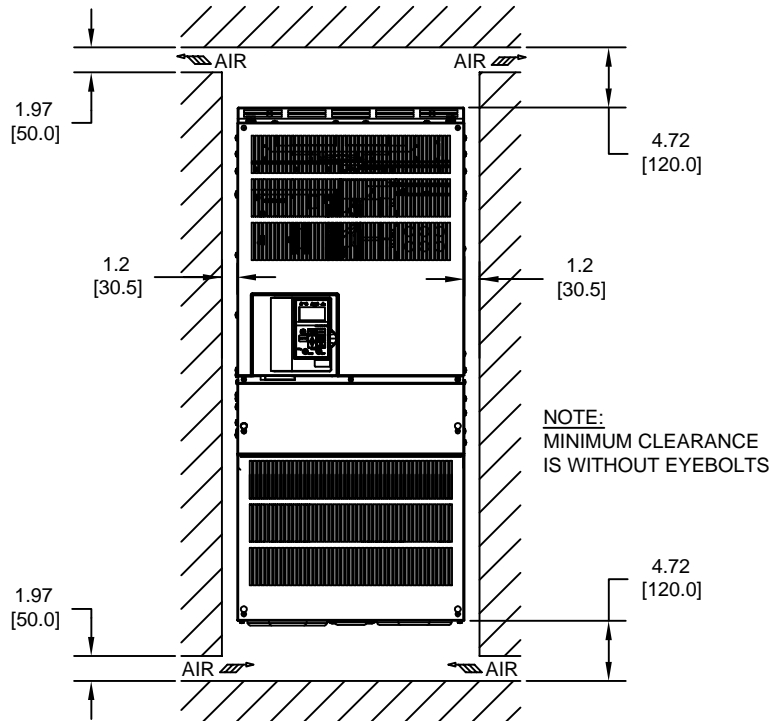
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - -	<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p>YASKAWA ELECTRIC AMERICA, INC. Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS	DATE 3-30-05	TITLE: E7 DIMENSION DRAWING			
		CHECKED: M. RUCINSKI	DATE 5-3-05	FRAME SIZE 10			
		TECH: J. CAIRO	DATE 3-31-05	NEMA TYPE 1/IP20 ENCLOSURE			
		APPROVED: T. SASADA	DATE 6-8-05	E7U2055 TO 2075, 4075 TO 4090			
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SIZE A	REVISION R00	PAGE 2 of 3					

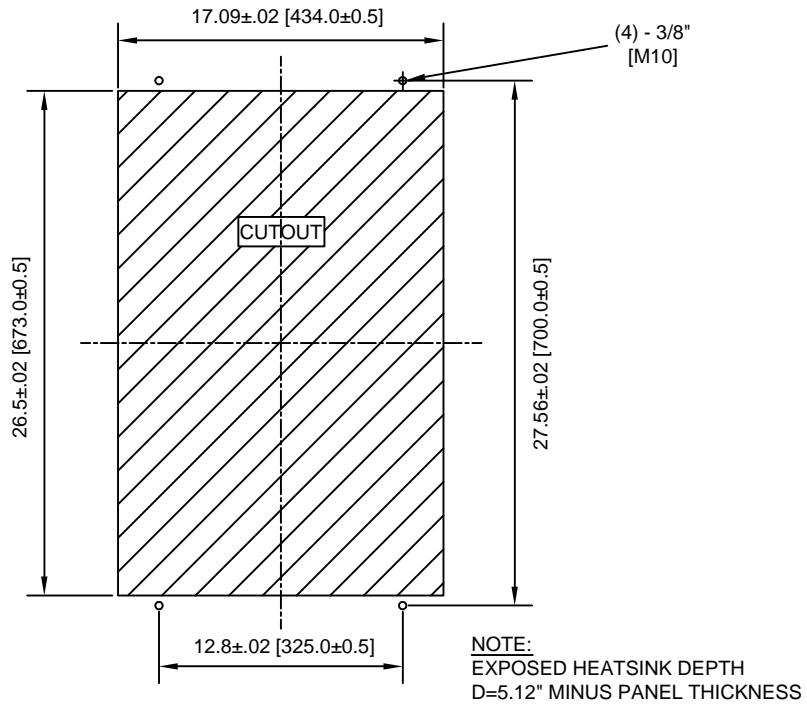
DD.E7.FR10.N1.01




MINIMUM INSTALLATION CLEARANCES (SCALE 1:15)



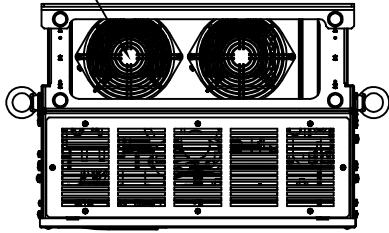
PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:10)



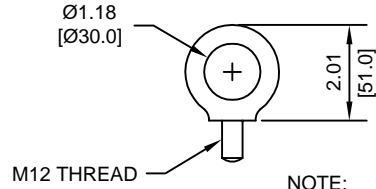
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - - - - - - -		 <b>YASKAWA</b> <i>A World of Automation Solutions™</i> <b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA <a href="http://www.yaskawa.com">http://www.yaskawa.com</a>	DRAWN: <b>J. MATTAS</b> DATE: <b>3-30-05</b>	TITLE: <b>E7 DIMENSION DRAWING</b>
UNITS: <b>IN[mm]</b>	SCALE: <b>BY VIEW</b>		CHECKED: <b>M. RUCINSKI</b> DATE: <b>5-3-05</b>	DATE: <b>5-3-05</b>
		TECH: <b>J. CAIRO</b> DATE: <b>3-31-05</b>	DATE: <b>6-6-05</b>	SIZE: <b>A</b> REVISION: <b>R00</b> PAGE: <b>3 of 3</b>
		APPROVED: <b>T. SASADA</b> ORIGINAL DESIGN: -	DATE: -	DRAWING #: <b>DD.E7.FR10.N1.01</b>

(2) EXTERNAL COOLING FANS

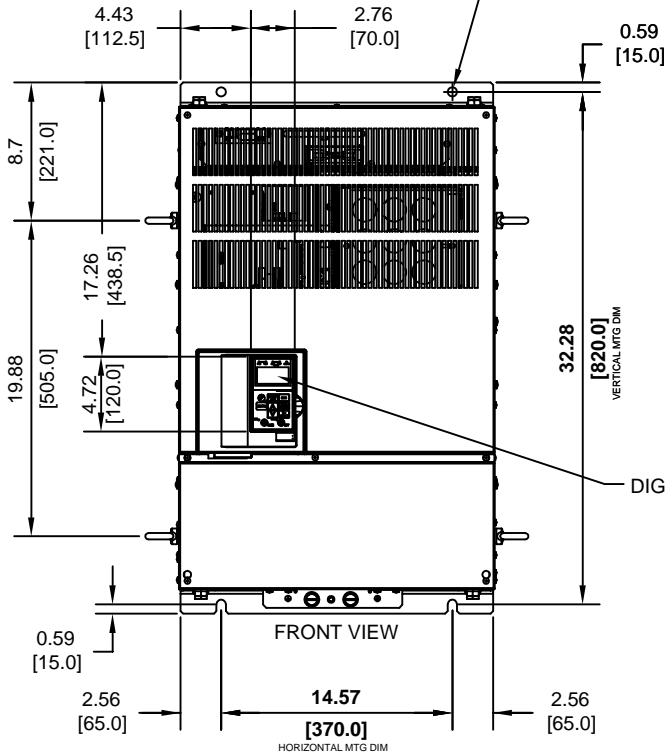


LIFTING AND EYEBOLT DETAILS



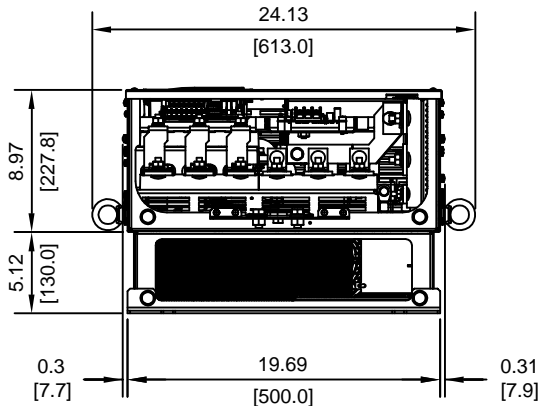
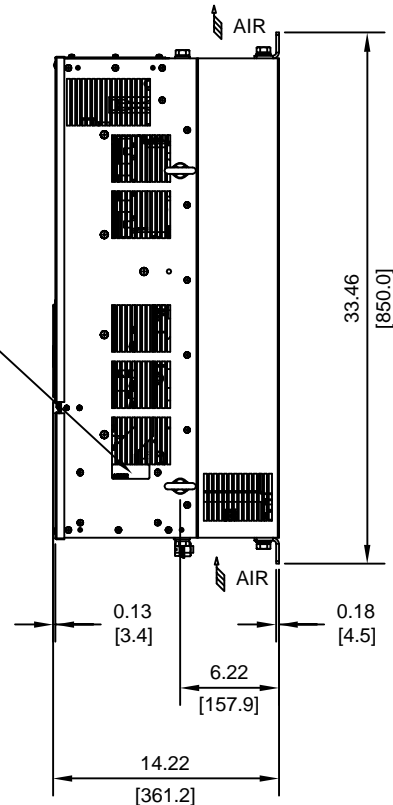
NOTE:  
SPREADER BAR REQUIRED TO AVOID DAMAGE DURING LIFTING

(4)-MOUNTING HOLES FOR 1/2"[M12] SCREWS



NAMEPLATE

DIGITAL OPERATOR



MODEL #	VOLTAGE (VAC)	OUTPUT CURRENT (A)	WEIGHT LBS (Kg)	HEAT LOSS (W)		
				INT	EXT	TOTAL
CIMR-E7U 2090	208/230	360	238 (108)	964	2194	3158
4110	480	240	224 (102)	847	1889	2736
4132		260	264 (120)	1005	2388	3393

INT=INTERNAL COMPONENTS  
EXT=EXTERNAL HEATSINK

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES:



**YASKAWA ELECTRIC AMERICA, INC.**  
Corporate Headquarters  
2121 Norman Drive South  
Waukegan, IL 60085  
1-800-YASKAWA  
http://www.yaskawa.com

DRAWN: J. MATTAS

DATE: 5-2-05

TITLE: E7 DIMENSION DRAWING

CHECKED: M. RUCINSKI

DATE: 6-5-05

FRAME SIZE 11  
IP00 ENCLOSURE

TECH: J. CAIRO

DATE: 5-4-05

E7U2090, 4110 TO 4132

APPROVED: T. SASADA

DATE: 6-8-05

SIZE	REVISION	PAGE
A	R00	1 of 3

ORIGINAL DESIGN: -

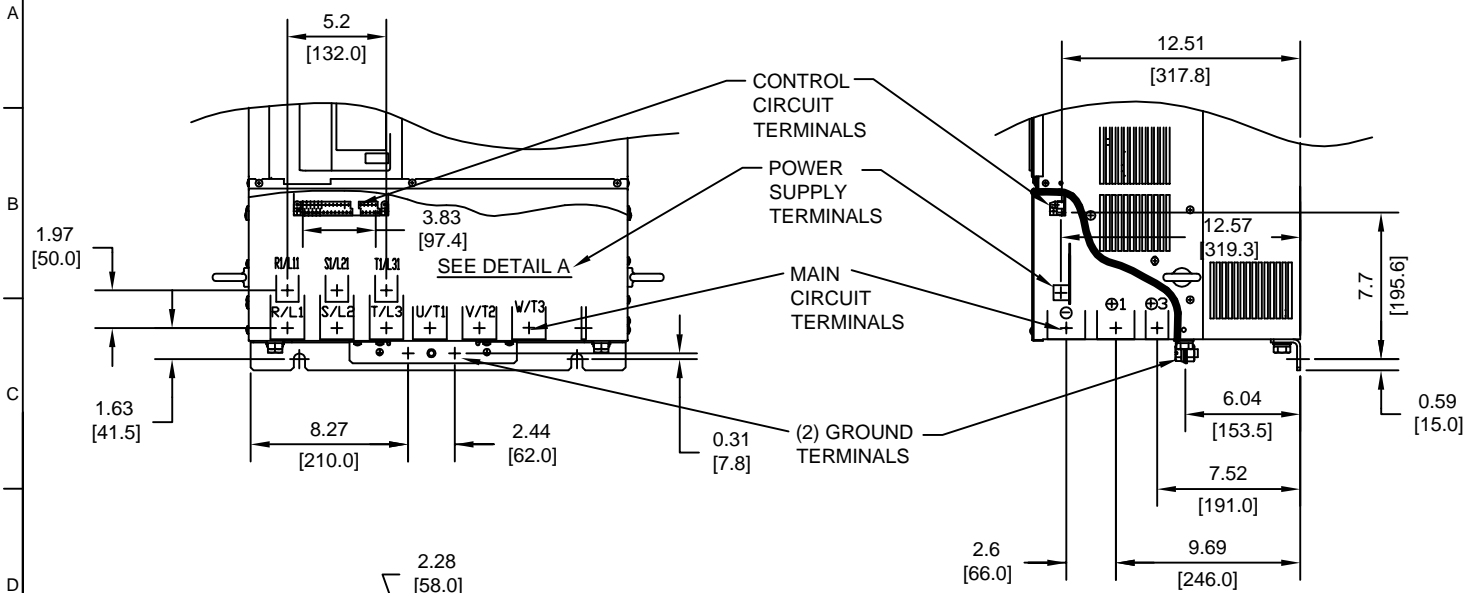
DATE: -

DRAWING #: **DD.E7.FR11.IP00.01**

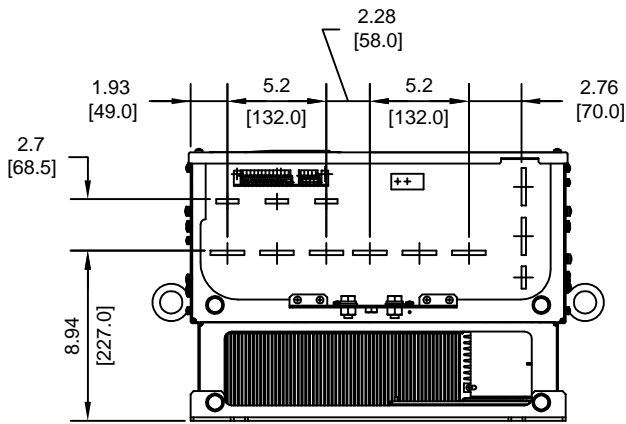
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SCALE: 1:12

TERMINAL AND WIRING DETAILS (SCALE 1:10)

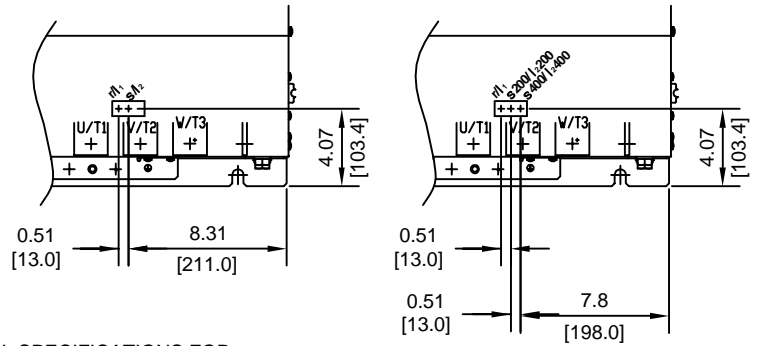


DETAIL A (SCALE 1:10)



MODEL E7U2090

MODELS E7U4110 AND E7U4132



TERMINAL SPECIFICATIONS FOR MAIN CIRCUIT AND GROUND

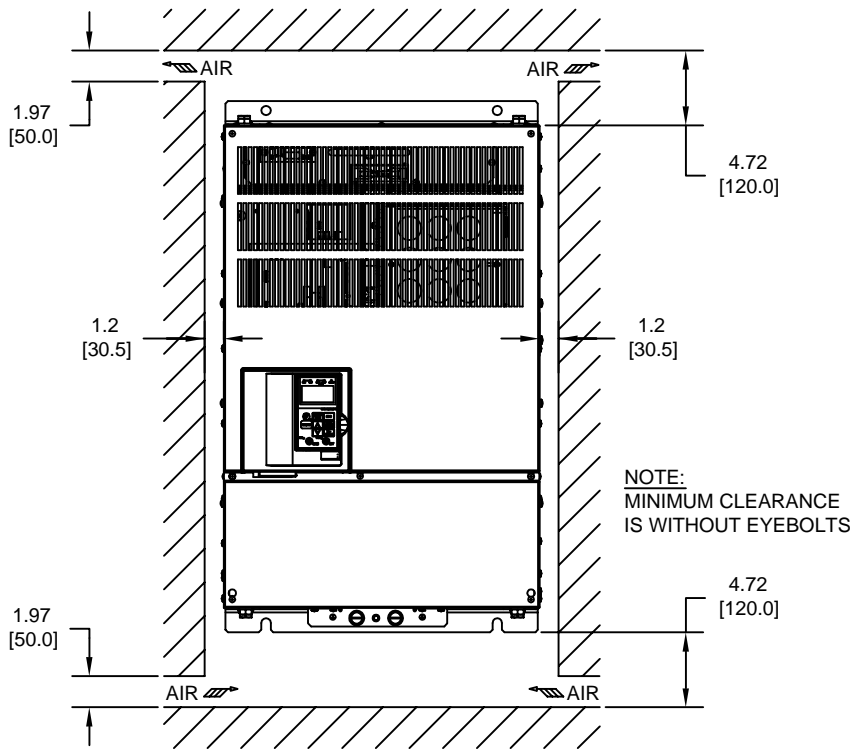
MODEL # CIMR-E7U	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)
2090	R/L1, S/L2, T/L3, ⊕, ⊕1, ⊕, U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M12	276 TO 345 (31.4 TO 39.2)
	⊕3	M8	78.0 TO 95.0 (8.8 TO 10.8)
	r1 1, s/2	M4	11.4 TO 12.3 (1.3 TO 1.4)
4110	R/L1, S/L2, T/L3, ⊕, ⊕1, U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M10	155 TO 198 (17.6 TO 22.5)
	⊕3	M8	78.0 TO 95.0 (8.8 TO 10.8)
	⊕	M12	276 TO 345 (31.4 TO 39.2)
	r1 1, s200/2 200, s400/2 400	M4	11.4 TO 12.3 (1.3 TO 1.4)
4132	R/L1, S/L2, T/L3, ⊕, ⊕1, U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M10	155 TO 198 (17.6 TO 22.5)
	⊕3	M8	78.0 TO 95.0 (8.8 TO 10.8)
	⊕	M12	276 TO 345 (31.4 TO 39.2)
	r1 1, s200/2 200, s400/2 400	M4	11.4 TO 12.3 (1.3 TO 1.4)

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

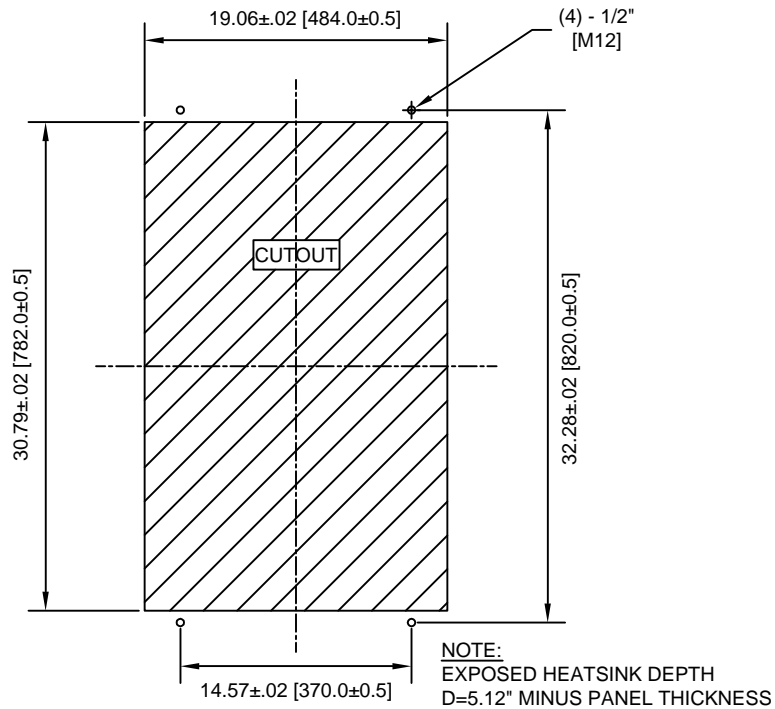
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - -	<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p>YASKAWA ELECTRIC AMERICA, INC. Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS	DATE 5-2-05	TITLE: E7 DIMENSION DRAWING		
		CHECKED: M. RUCINSKI	DATE 6-5-05	FRAME SIZE 11		
		TECH: J. CAIRO	DATE 5-4-05	IP00 ENCLOSURE		
		APPROVED: T. SASADA	DATE 6-8-05	E7U2090, 4110 TO 4132		
UNITS: IN[mm]	SCALE: BY VIEW	ORIGINAL DESIGN: -	DATE -	SIZE A	REVISION R00	PAGE 2 of 3
			DRAWING #: <b>DD.E7.FR11.IP00.01</b>			


MINIMUM INSTALLATION CLEARANCES (SCALE 1:12)



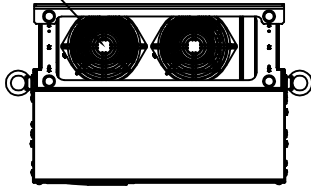
PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:12)



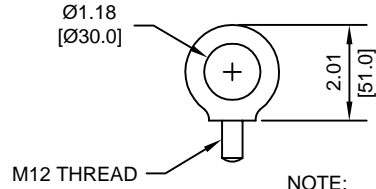
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: -		 <b>YASKAWA</b> <i>A World of Automation Solutions™</i> <b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA <a href="http://www.yaskawa.com">http://www.yaskawa.com</a>	DRAWN: <b>J. MATTAS</b>	DATE: <b>5-2-05</b>	TITLE: <b>E7 DIMENSION DRAWING</b>		
UNITS: IN[mm]	SCALE: BY VIEW		CHECKED: <b>M. RUCINSKI</b>	DATE: <b>6-5-05</b>	<b>FRAME SIZE 11</b>		
		TECH: <b>J. CAIRO</b>	DATE: <b>5-4-05</b>	<b>IP00 ENCLOSURE</b>			
		APPROVED: <b>T. SASADA</b>	DATE: <b>6-8-05</b>	<b>E7U2090, 4110 TO 4132</b>			
		ORIGINAL DESIGN: -	DATE: -	SIZE: <b>A</b>	REVISION: <b>R00</b>	PAGE: <b>3 of 3</b>	
		DRAWING #: <b>DD.E7.FR11.IP00.01</b>					

(2) EXTERNAL COOLING FANS

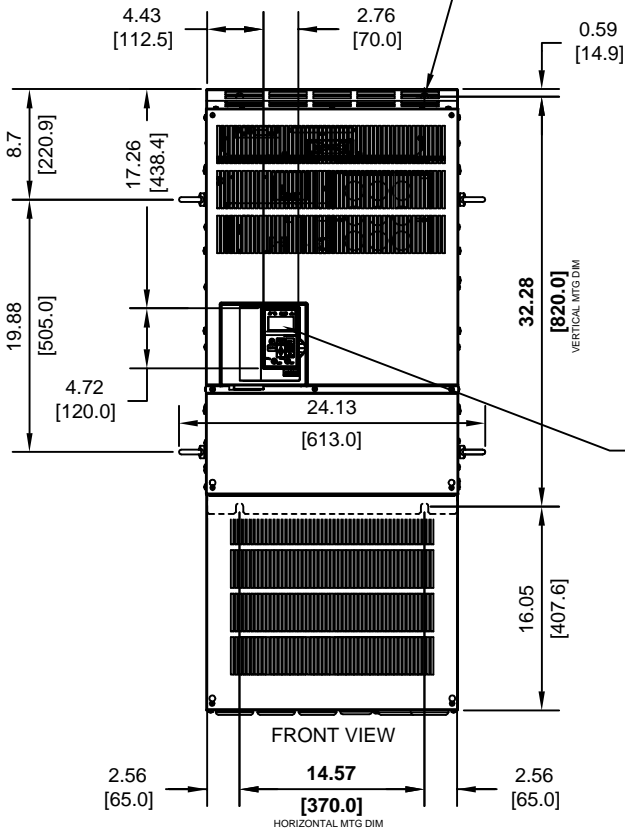


LIFTING AND EYEBOLT DETAILS



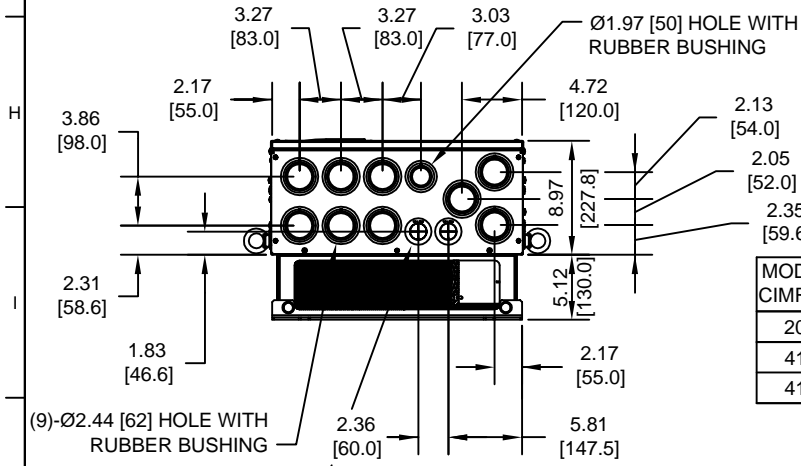
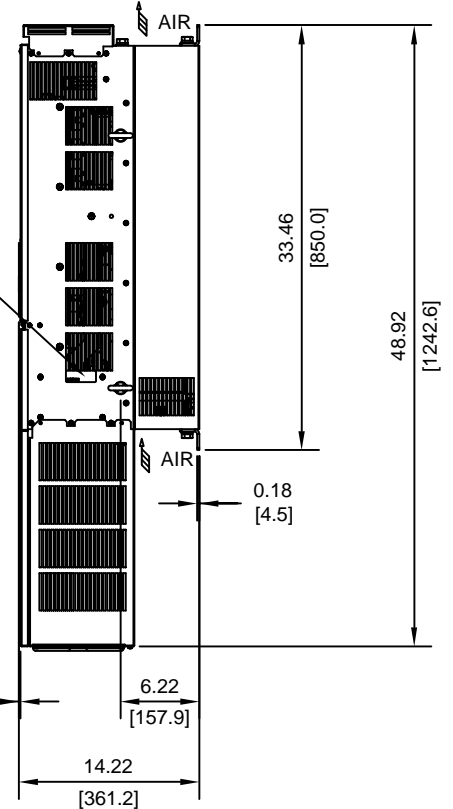
NOTE:  
SPREADER BAR REQUIRED TO AVOID DAMAGE DURING LIFTING

(4)-MOUNTING HOLES FOR 1/2"[M12] SCREWS



NAMEPLATE

DIGITAL OPERATOR



MODEL # CIMR-E7U	VOLTAGE (VAC)	OUTPUT CURRENT (A)	WEIGHT LBS (Kg)	HEAT LOSS (W)		
				INT	EXT	TOTAL
2090	208/230	360	251 (114)	964	2194	3158
4110	480	240	268 (122)	847	1889	2736
4132		260	286 (130)	1005	2388	3393

INT=INTERNAL COMPONENTS  
EXT=EXTERNAL HEATSINK

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES:

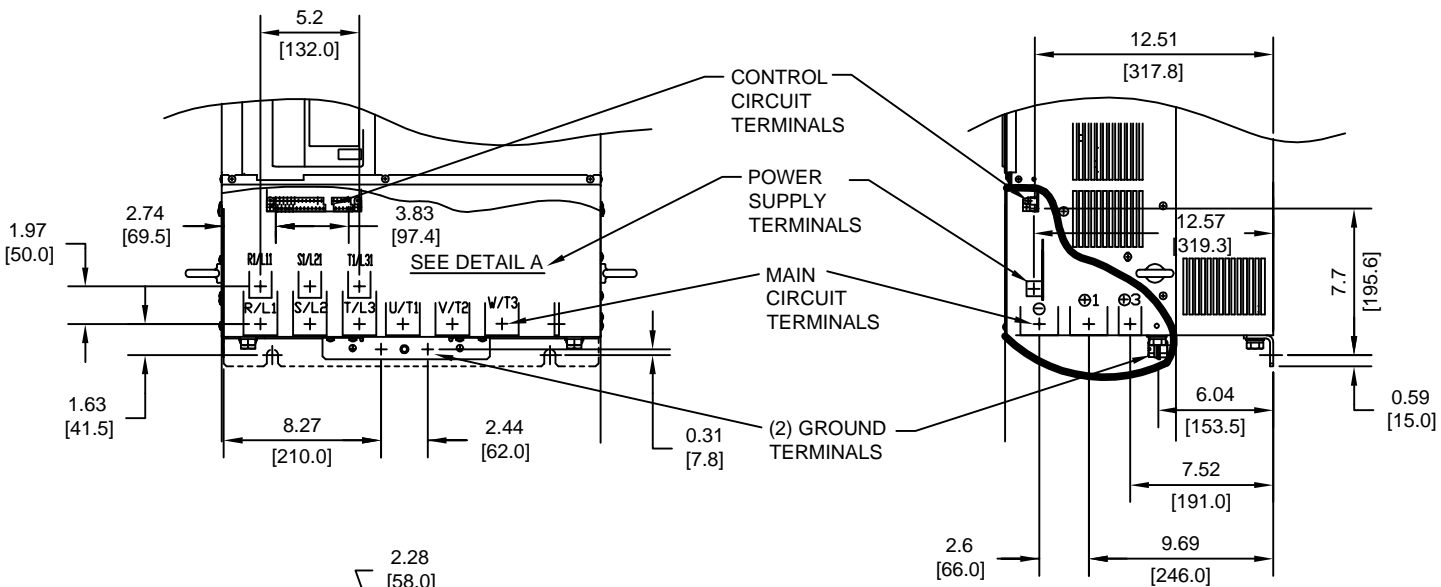
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**YASKAWA**  
A World of Automation Solutions™

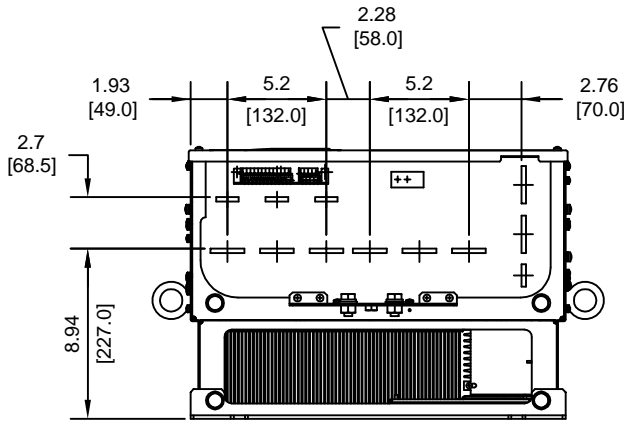
YASKAWA ELECTRIC AMERICA, INC.  
Corporate Headquarters  
2121 Norman Drive South  
Waukegan, IL 60085  
1-800-YASKAWA  
http://www.yaskawa.com

DRAWN: J. MATTAS	DATE 3-30-05	TITLE: E7 DIMENSION DRAWING
CHECKED: M. RUCINSKI	DATE 5-3-05	FRAME SIZE 11
TECH: J. CAIRO	DATE 3-31-05	NEMA TYPE 1/P20 ENCLOSURE
APPROVED: T. SASADA	DATE 6-8-05	E7U2090, 4110 TO 4132
ORIGINAL DESIGN: -	DATE -	SIZE: A REVISION: R00 PAGE: 1 of 3
DRAWING #: DD.E7.FR11.N1.01		

TERMINAL AND WIRING DETAILS (SCALE 1:10)

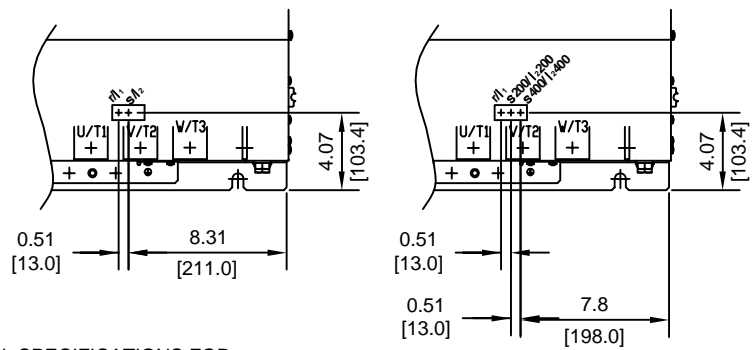


DETAIL A (SCALE 1:10)



MODEL E7U2090

MODELS E7U4110 AND E7U4132



TERMINAL SPECIFICATIONS FOR MAIN CIRCUIT AND GROUND

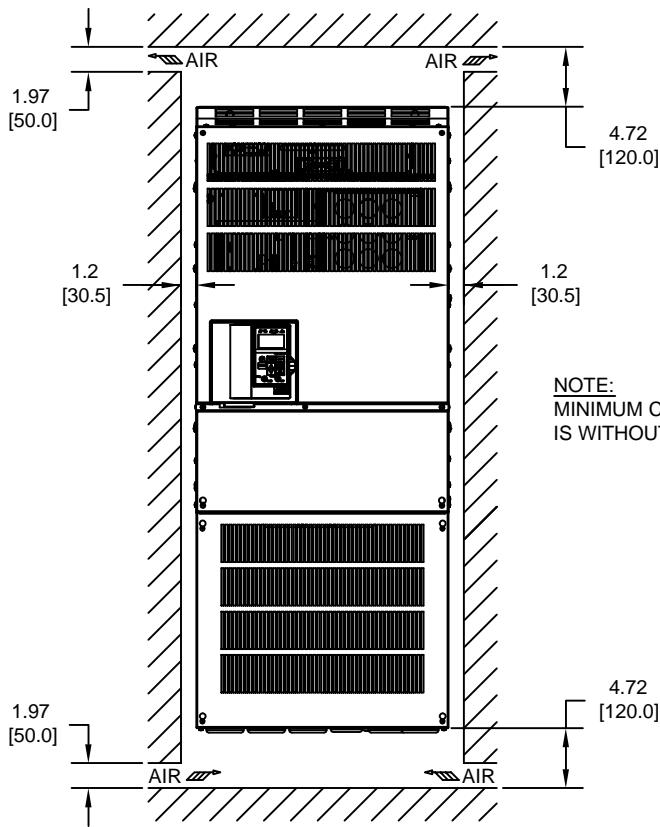
MODEL # CIMR-E7U	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)
2090	R/L1, S/L2, T/L3, ⊙ ⊕1 ⊕, U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M12	276 TO 345 (31.4 TO 39.2)
	⊕3	M8	78.0 TO 95.0 (8.8 TO 10.8)
	r1 1, s/2	M4	11.4 TO 12.3 (1.3 TO 1.4)
4110	R/L1, S/L2, T/L3, ⊙ ⊕1, U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M10	155 TO 198 (17.6 TO 22.5)
	⊕3	M8	78.0 TO 95.0 (8.8 TO 10.8)
	⊕	M12	276 TO 345 (31.4 TO 39.2)
	r1 1, s200/2200, s400/2400	M4	11.4 TO 12.3 (1.3 TO 1.4)
4132	R/L1, S/L2, T/L3, ⊙ ⊕1, U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M10	155 TO 198 (17.6 TO 22.5)
	⊕3	M8	78.0 TO 95.0 (8.8 TO 10.8)
	⊕	M12	276 TO 345 (31.4 TO 39.2)
	r1 1, s200/2200, s400/2400	M4	11.4 TO 12.3 (1.3 TO 1.4)

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

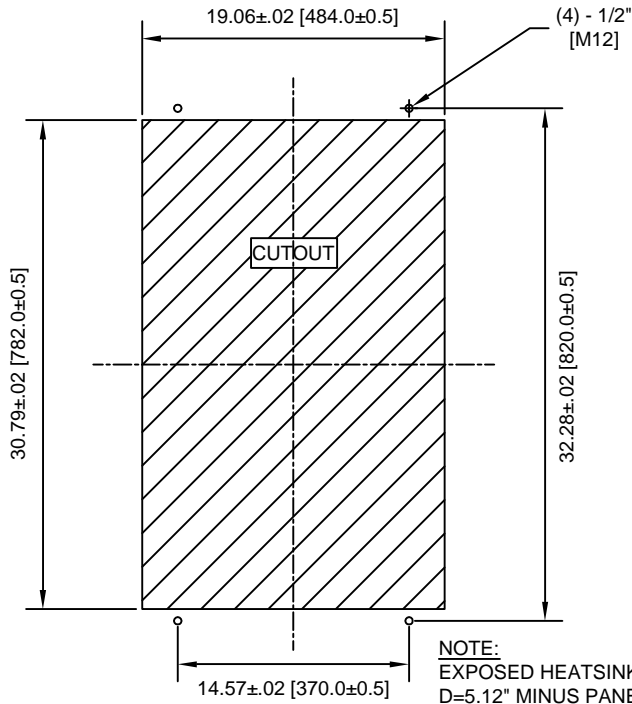
TOLERANCES/REFERENCES: - - - - -	<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p>YASKAWA ELECTRIC AMERICA, INC. Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS	DATE 3-30-05	TITLE: E7 DIMENSION DRAWING			
		CHECKED: M. RUCINSKI	DATE 5-3-05	FRAME SIZE 11			
		TECH: J. CAIRO	DATE 3-31-05	NEMA TYPE 1/P20 ENCLOSURE			
		APPROVED: T. SASADA	DATE 6-8-05	E7U2090, 4110 TO 4132			
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SIZE A	REVISION R00	PAGE 2 of 3					

MINIMUM INSTALLATION CLEARANCES (SCALE 1:15)



NOTE:  
MINIMUM CLEARANCE  
IS WITHOUT EYEBOLTS

PANEL CUTOUT FOR EXTERNAL HEATSINK  
MOUNTING CONFIGURATION (SCALE 1:12)



NOTE:  
EXPOSED HEATSINK DEPTH  
D=5.12" MINUS PANEL THICKNESS

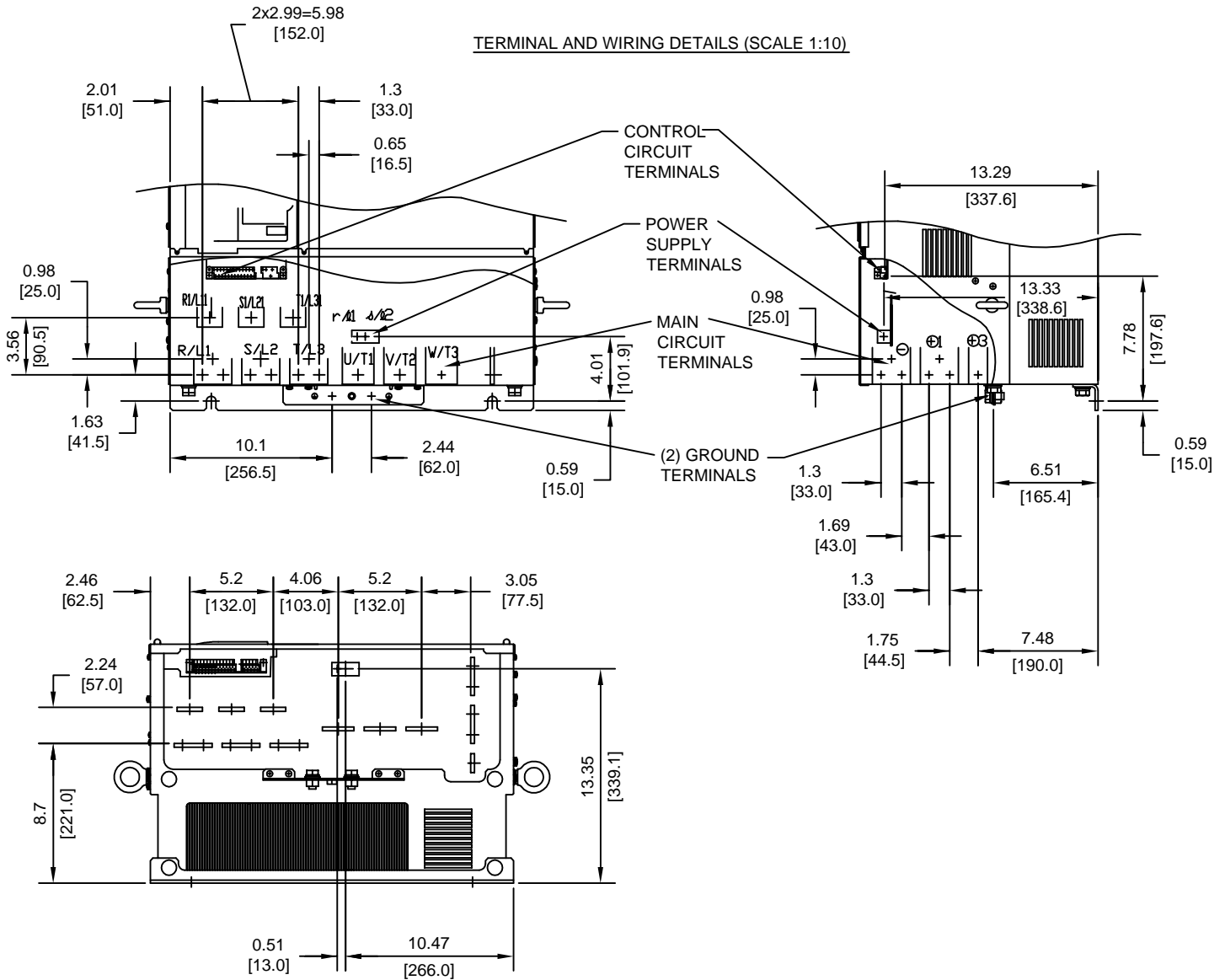
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - - - -		<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p><b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS DATE: 3-30-05	TITLE: E7 DIMENSION DRAWING FRAME SIZE 11 NEMA TYPE 1/P20 ENCLOSURE E7U2090, 4110 TO 4132
UNITS: IN[mm]	SCALE: BY VIEW		CHECKED: M. RUCINSKI DATE: 5-3-05	DATE: 3-31-05
		TECH: J. CAIRO DATE: 6-6-05	DATE: 6-6-05	SIZE: A REVISION: R00 PAGE: 3 of 3
		APPROVED: T. SASADA DATE: -	ORIGINAL DESIGN: -	DRAWING #: DD.E7.FR11.N1.01





TERMINAL AND WIRING DETAILS (SCALE 1:10)




TERMINAL AND WIRE SPECIFICATIONS FOR MAIN CIRCUIT AND GROUND

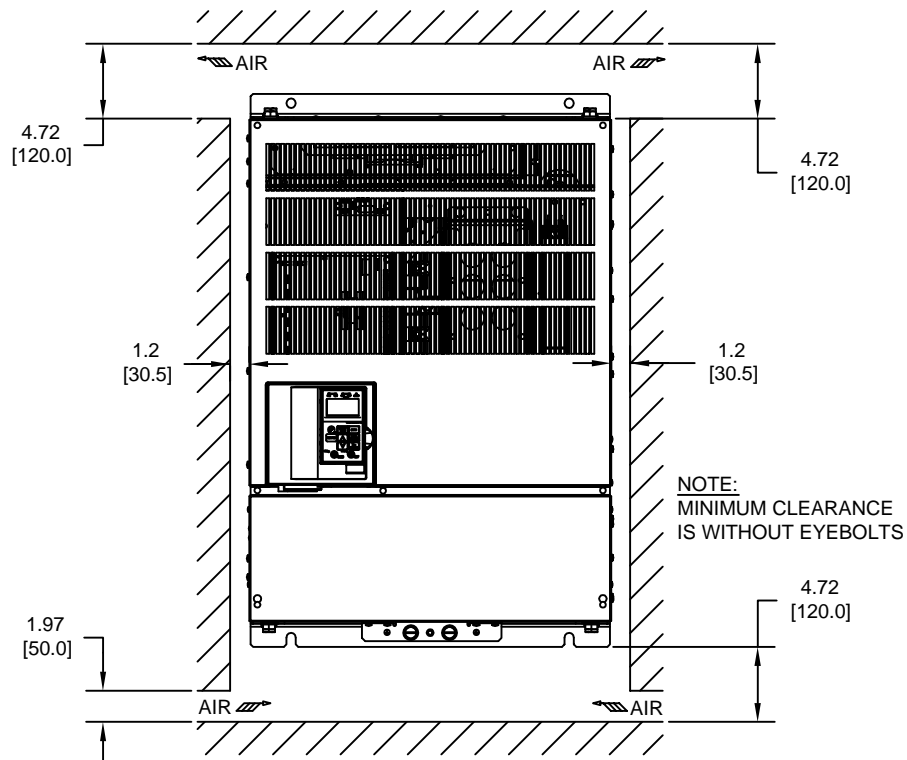
MODEL #	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)
2110	R/L1, S/L2, T/L3, ⊕, ⊕1, ⊕, U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M12	276 TO 345 (31.4 TO 39.2)
	⊕3	M8	78.0 TO 95.0 (8.8 TO 10.8)
	r1/1, s/1/2	M4	11.4 TO 12.3 (1.3 TO 1.4)

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

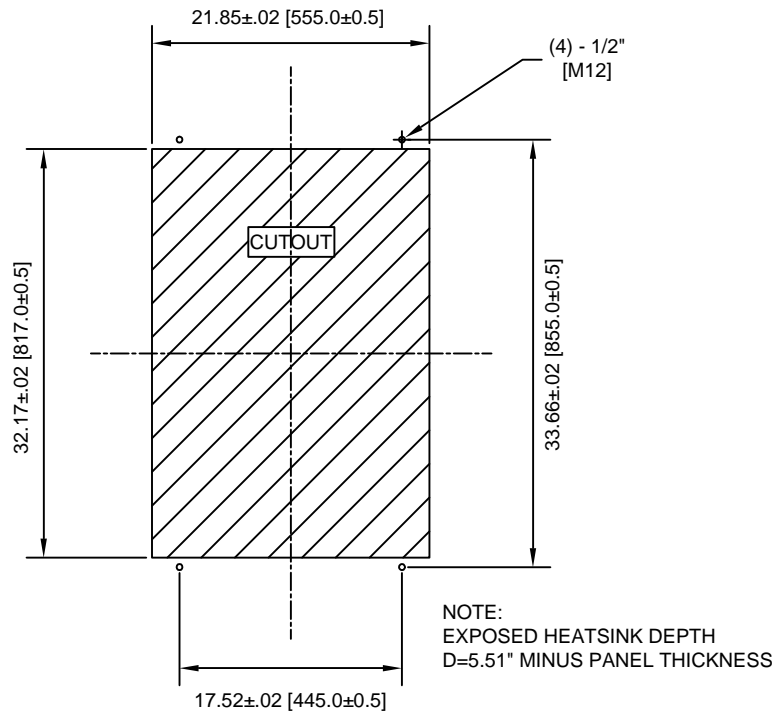
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - -	 <b>YASKAWA</b> <i>A World of Automation Solutions™</i> <b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com	DRAWN: <b>J. MATTAS</b>	DATE: <b>5-2-05</b>	TITLE: <b>E7 DIMENSION DRAWING</b>		
		CHECKED: <b>M. RUCINSKI</b>	DATE: <b>6-5-05</b>	<b>FRAME SIZE 12</b>		
		TECH: <b>J. CAIRO</b>	DATE: <b>5-4-05</b>	<b>IP00 ENCLOSURE</b>		
		APPROVED: <b>T. SASADA</b>	DATE: <b>6-8-05</b>	<b>E7U2110</b>		
UNITS: <b>IN[mm]</b>	SCALE: <b>BY VIEW</b>	ORIGINAL DESIGN: -	DATE: -	SIZE: <b>A</b>	REVISION: <b>R00</b>	PAGE: <b>2 of 3</b>
				DRAWING #: <b>DD.E7.FR12.IP00.01</b>		

MINIMUM INSTALLATION CLEARANCES (SCALE 1:12)




PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:15)



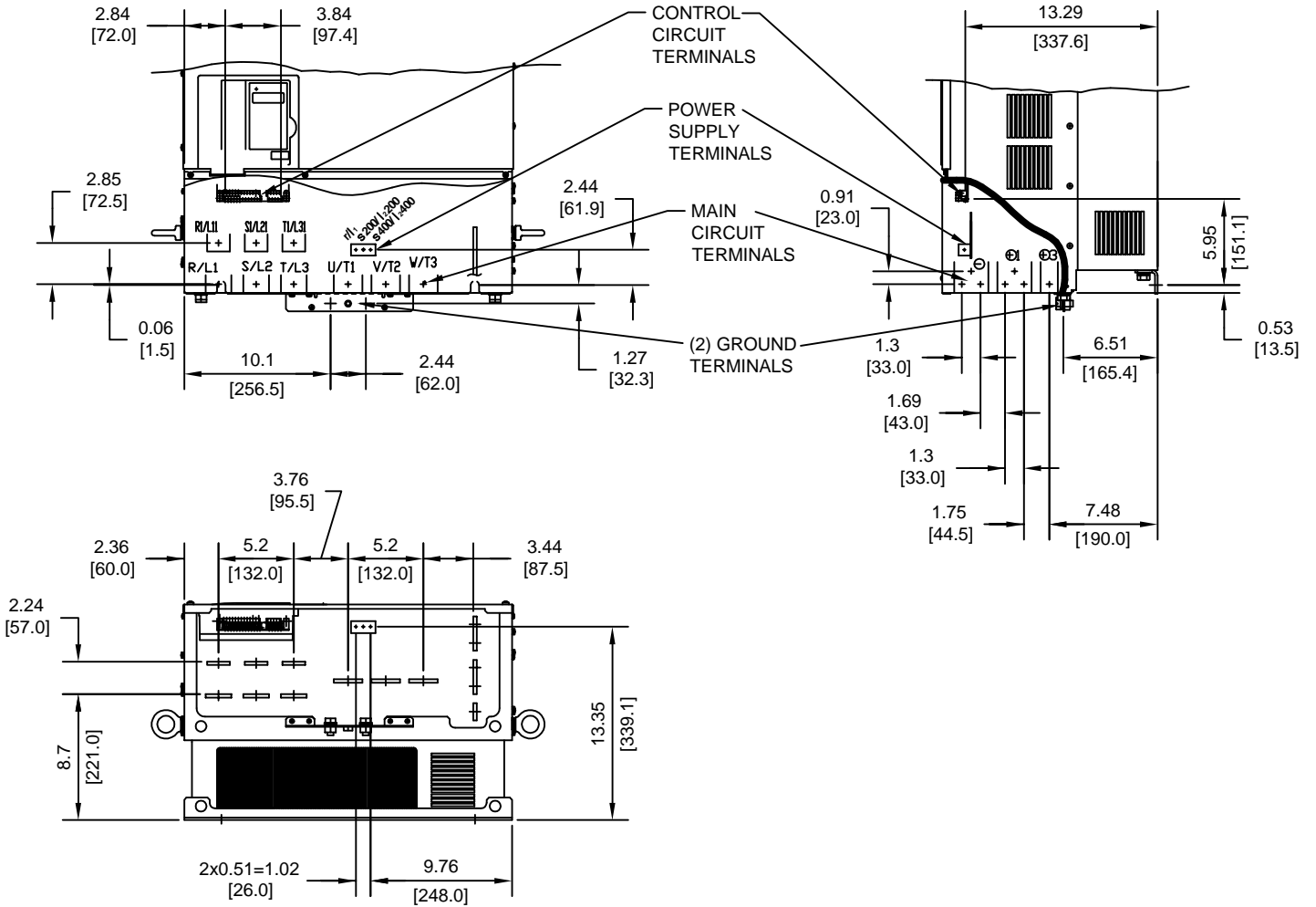
NOTE:  
EXPOSED HEATSINK DEPTH  
D=5.51" MINUS PANEL THICKNESS

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: -		 <b>YASKAWA</b> <i>A World of Automation Solutions™</i> <b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA <a href="http://www.yaskawa.com">http://www.yaskawa.com</a>	DRAWN: <b>J. MATTAS</b>	DATE: <b>5-2-05</b>	TITLE: <b>E7 DIMENSION DRAWING</b>		
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		TECH: <b>J. CAIRO</b>	DATE: <b>5-4-05</b>	SIZE: <b>A</b>	REVISION: <b>R00</b>	PAGE: <b>3 of 3</b>	
		APPROVED: <b>T. SASADA</b>	DATE: <b>6-8-05</b>	DRAWING #: <b>DD.E7.FR12.IP00.01</b>			
		ORIGINAL DESIGN: -	DATE: -				



TERMINAL AND WIRING DETAILS (SCALE 1:12)



TERMINAL SPECIFICATIONS FOR  
MAIN CIRCUIT AND GROUND

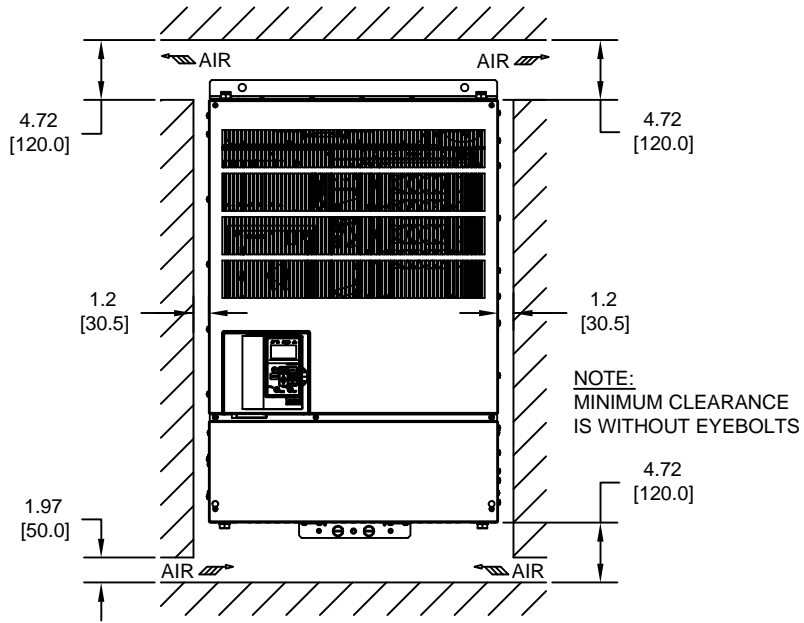
MODEL #	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)
4160	R/L1, S/L2, T/L3, ⊕, ⊕1, ⊕2 U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M12	276 TO 345 (31.4 TO 39.2)
	⊕3	M8	78.0 TO 95.0 (8.8 TO 10.8)
	#14, #12, #10, #8, #6, #4	M4	11.4 TO 12.3 (1.3 TO 1.4)

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

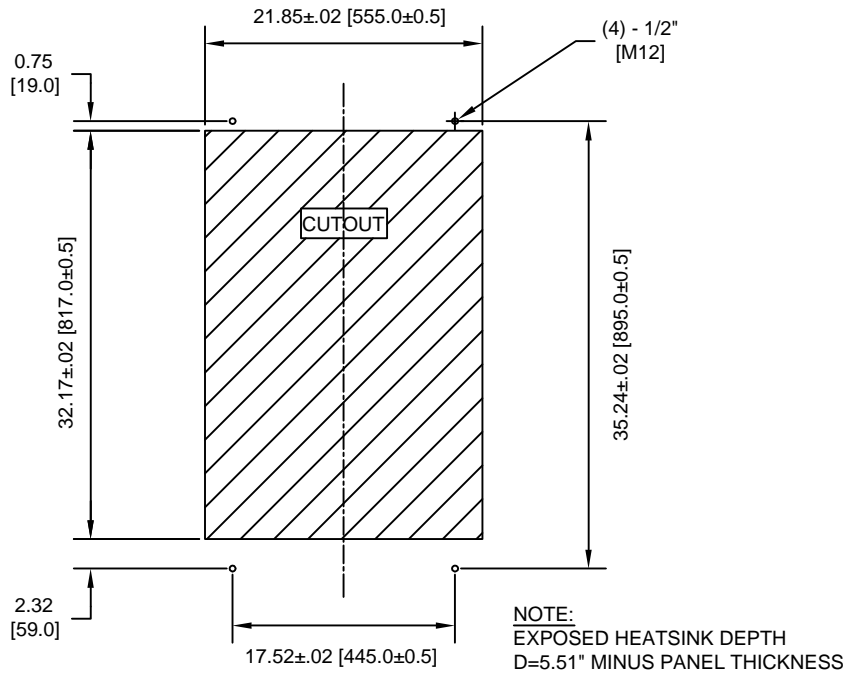
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: -	<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p><b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS	DATE 5-2-05	TITLE: E7 DIMENSION DRAWING
		CHECKED: M. RUCINSKI	DATE 6-5-05	FRAME SIZE 13 IP00 ENCLOSURE E7U4160
UNITS: IN/mm	SCALE: BY VIEW	TECH: J. CAIRO	DATE 5-4-05	SIZE A
		APPROVED: T. SASADA	DATE 6-8-05	REVISION R01
		ORIGINAL DESIGN: -	DATE -	PAGE 2 of 3
				DRAWING #: <b>DD.E7.FR13.IP00.01</b>


MINIMUM INSTALLATION CLEARANCES (SCALE 1:15)



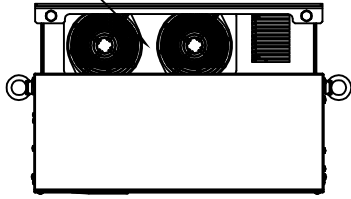
PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:15)



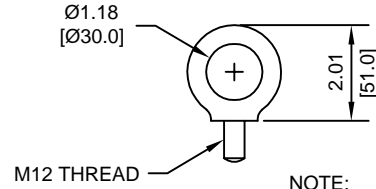
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: -		 <b>YASKAWA</b> <i>A World of Automation Solutions™</i> <b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA <a href="http://www.yaskawa.com">http://www.yaskawa.com</a>	DRAWN: J. MATTAS	DATE 5-2-05	TITLE: E7 DIMENSION DRAWING		
UNITS: IN[mm]			SCALE: BY VIEW	CHECKED: M. RUCINSKI	DATE 6-5-05	FRAME SIZE 13	
			TECH: J. CAIRO	DATE 5-4-05	IP00 ENCLOSURE		
			APPROVED: T. SASADA	DATE 6-8-05	SIZE A	REVISION R01	PAGE 3 of 3
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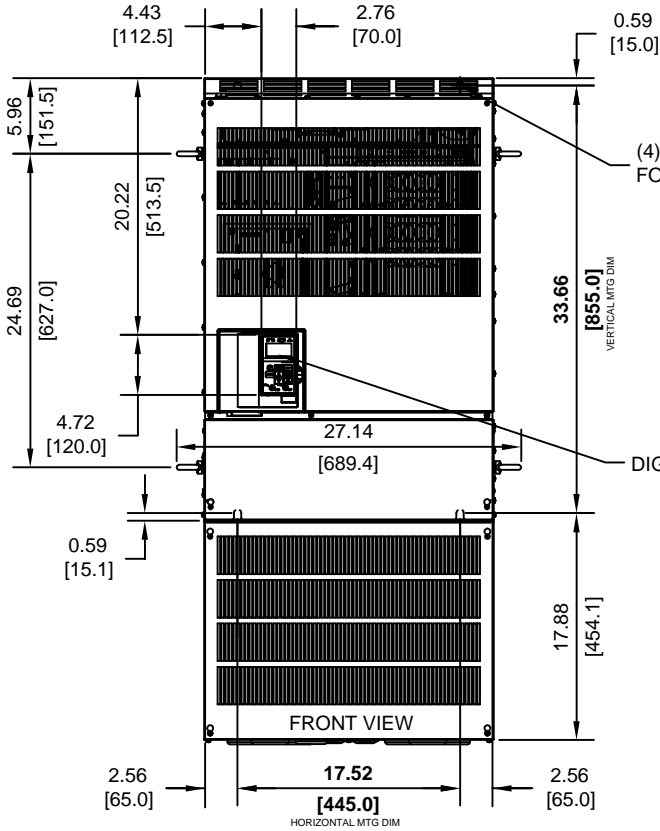
(2) EXTERNAL COOLING FANS



LIFTING AND EYEBOLT DETAILS



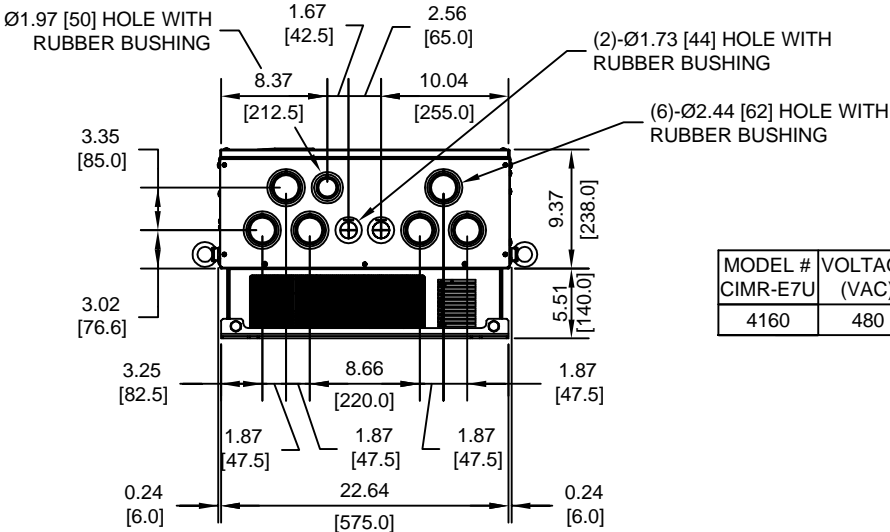
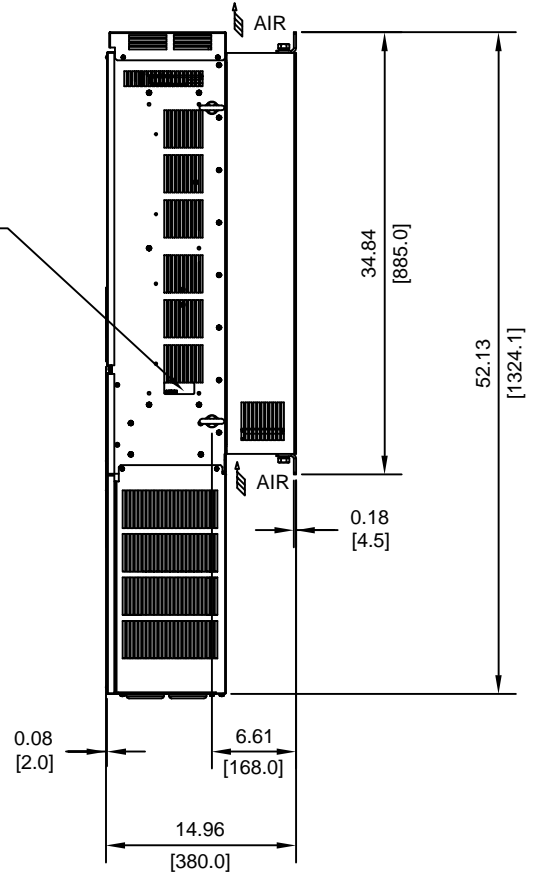
NOTE:  
SPREADER BAR REQUIRED TO AVOID DAMAGE DURING LIFTING



(4)-MOUNTING HOLES FOR 1/2" [M12] SCREWS

NAMEPLATE

DIGITAL OPERATOR



(2)-Ø1.73 [44] HOLE WITH RUBBER BUSHING

(6)-Ø2.44 [62] HOLE WITH RUBBER BUSHING

MODEL #	VOLTAGE (VAC)	OUTPUT CURRENT (A)	WEIGHT LBS (Kg)	HEAT LOSS (W)		
				INT	EXT	TOTAL
4160	480	304	374 (170)	1144	2791	3935

INT=INTERNAL COMPONENTS  
EXT=EXTERNAL HEATSINK

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES:

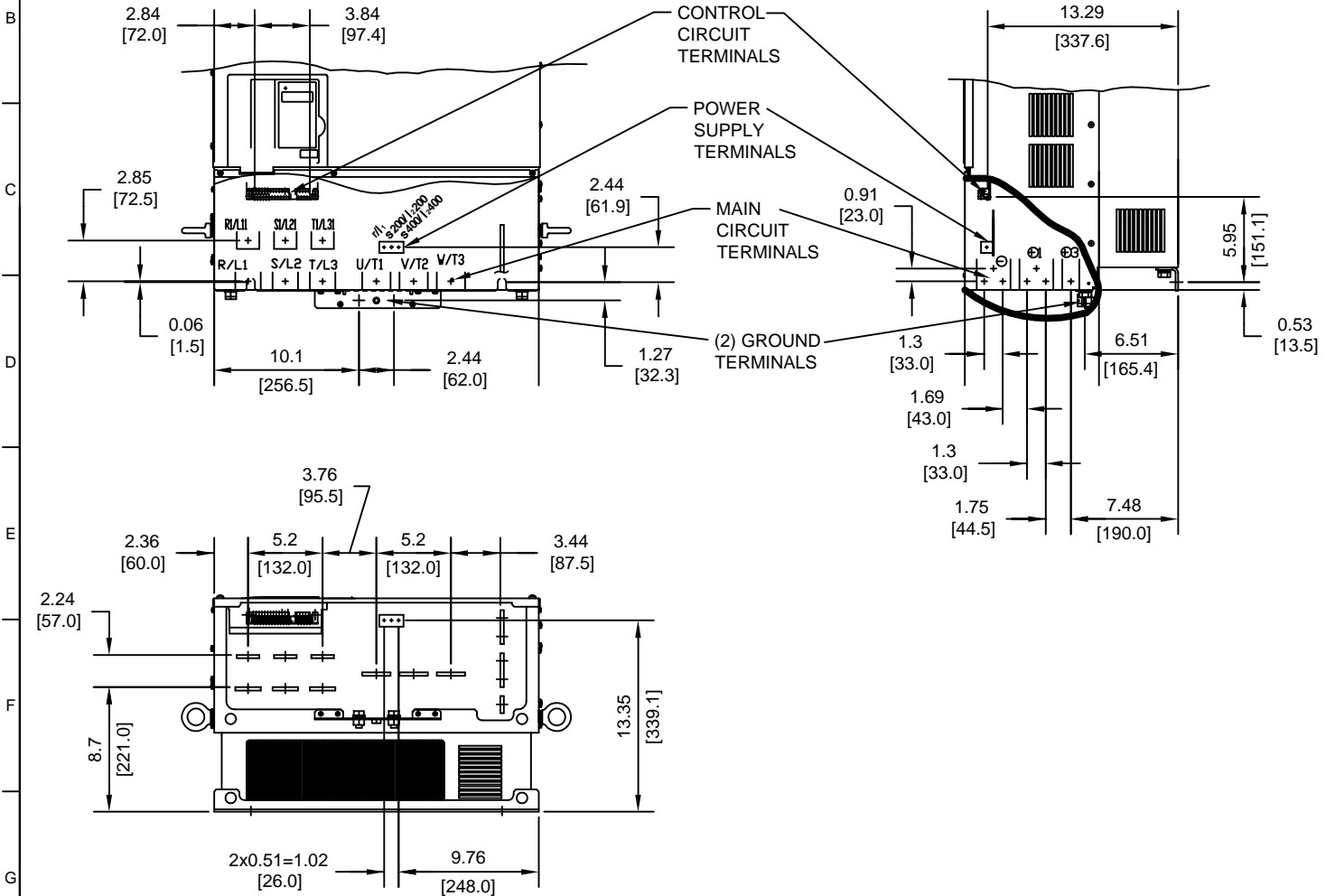
UNITS: IN[mm]      SCALE: 1:15

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YASKAWA ELECTRIC AMERICA, INC.  
Corporate Headquarters  
2121 Norman Drive South  
Waukegan, IL 60085  
1-800-YASKAWA  
http://www.yaskawa.com

DRAWN: J. MATTAS	DATE: 3-30-05	TITLE: E7 DIMENSION DRAWING		
CHECKED: M. RUCINSKI	DATE: 5-3-05	FRAME SIZE 13		
TECH: J. CAIRO	DATE: 3-31-05	NEMA TYPE 1/IP20 ENCLOSURE		
APPROVED: T. SASADA	DATE: 6-8-05	SIZE: A	REVISION: R01	PAGE: 1 of 3
ORIGINAL DESIGN: -	DATE: -	DRAWING #: DD.E7.FR13.N1.01		

TERMINAL AND WIRING DETAILS (SCALE 1:12)



TERMINAL SPECIFICATIONS FOR  
MAIN CIRCUIT AND GROUND

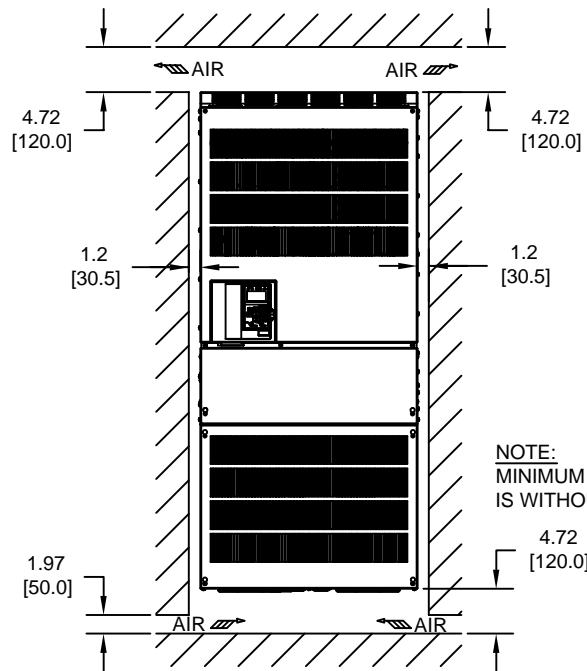
MODEL # CIMR-E7U	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)
4160	R/L1, S/L2, T/L3, $\odot$ , $\oplus$ , $\ominus$ , U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M12	276 TO 345 (31.4 TO 39.2)
	$\oplus$ 3	M8	78.0 TO 95.0 (8.8 TO 10.8)
	r1 1, s200/200, s400/400	M4	11.4 TO 12.3 (1.3 TO 1.4)

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

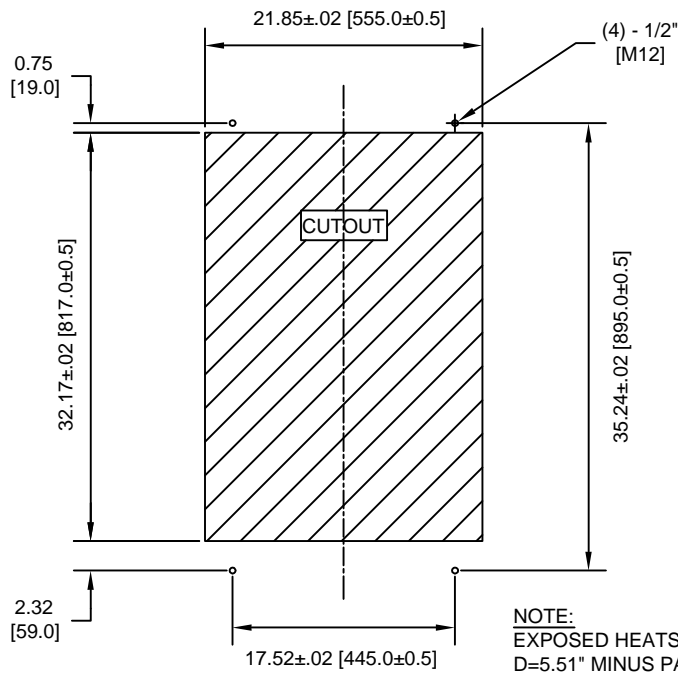
TOLERANCES/REFERENCES: - - - - - - - - - -	<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p>YASKAWA ELECTRIC AMERICA, INC. Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS	DATE 3-30-05	TITLE: E7 DIMENSION DRAWING		
		CHECKED: M. RUCINSKI	DATE 5-3-05	FRAME SIZE 13		
		TECH: J. CAIRO	DATE 3-31-05	NEMA TYPE 1/IP20 ENCLOSURE		
		APPROVED: T. SASADA	DATE 6-6-05	E7U4160		
UNITS: IN[mm]	SCALE: BY VIEW	ORIGINAL DESIGN: -	DATE -	SIZE A	REVISION R01	PAGE 2 of 3
				DRAWING #: DD.E7.FR13.N1.01		

MINIMUM INSTALLATION CLEARANCES (SCALE 1:20)




NOTE:  
MINIMUM CLEARANCE  
IS WITHOUT EYEBOLTS

PANEL CUTOUT FOR EXTERNAL HEATSINK  
MOUNTING CONFIGURATION (SCALE 1:15)



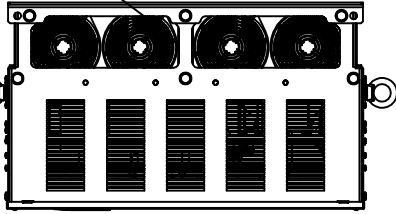
NOTE:  
EXPOSED HEATSINK DEPTH  
D=5.51" MINUS PANEL THICKNESS

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

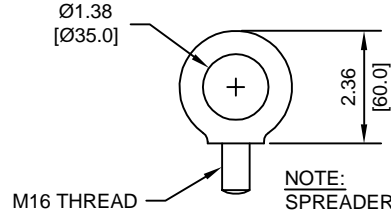
TOLERANCES/REFERENCES: -		 <b>YASKAWA</b> <i>A World of Automation Solutions™</i> <b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA <a href="http://www.yaskawa.com">http://www.yaskawa.com</a>	DRAWN: <b>J. MATTAS</b>	DATE: <b>3-30-05</b>	TITLE: <b>E7 DIMENSION DRAWING</b>			
UNITS: IN[mm]			CHECKED: <b>M. RUCINSKI</b>	DATE: <b>5-3-05</b>	FRAME SIZE 13 NEMA TYPE 1/IP20 ENCLOSURE E7U4160			
SCALE: BY VIEW		TECH: <b>J. CAIRO</b>	DATE: <b>3-31-05</b>	APPROVED: <b>T. SASADA</b>	DATE: <b>6-6-05</b>	SIZE: <b>A</b>	REVISION: <b>R01</b>	PAGE: <b>3 of 3</b>
		ORIGINAL DESIGN: -	DATE: -	DRAWING #: <b>DD.E7.FR13.N1.01</b>				



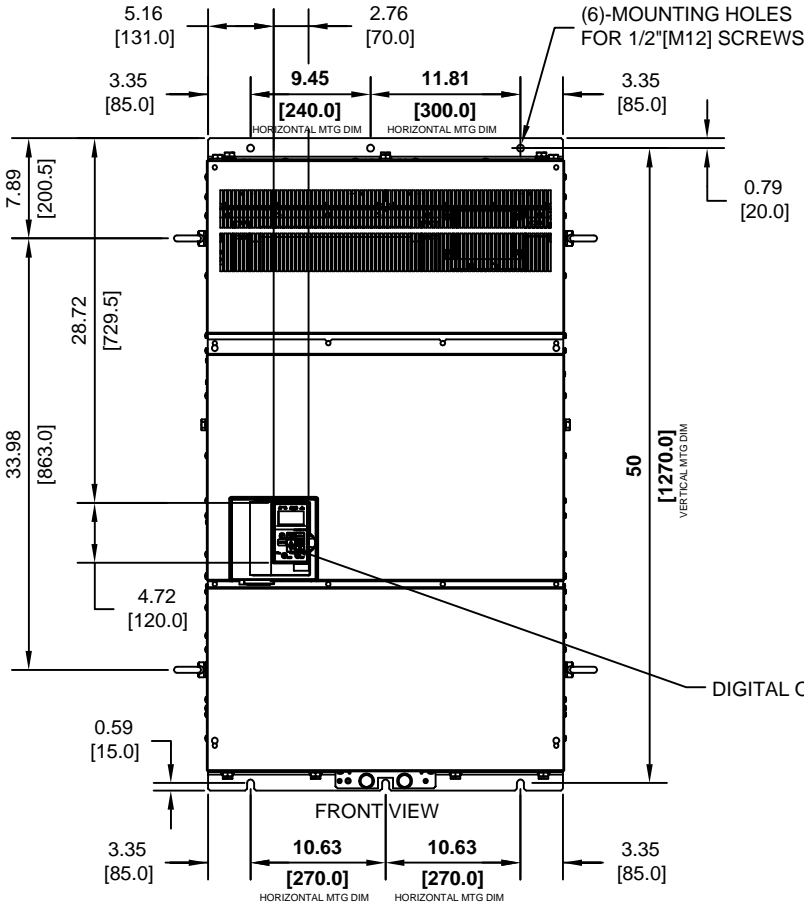
(4) EXTERNAL COOLING FANS



LIFTING AND EYEBOLT DETAILS

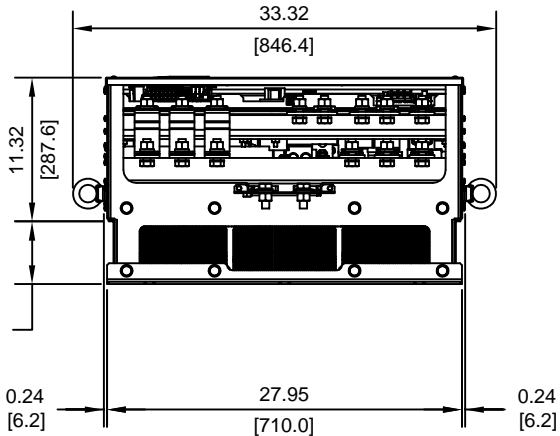
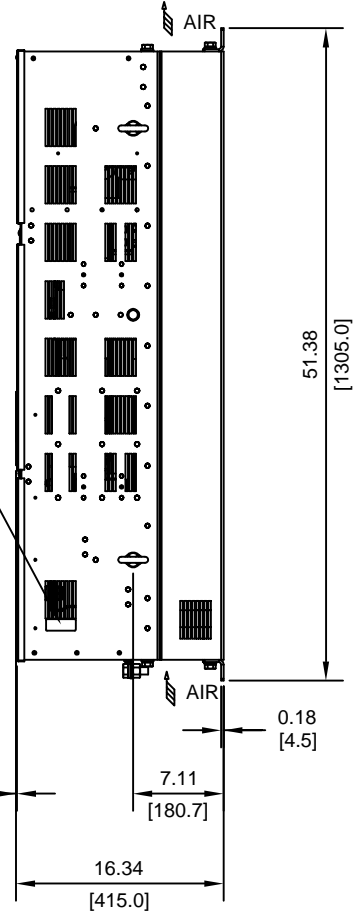


NOTE: SPREADER BAR REQUIRED TO AVOID DAMAGE DURING LIFTING



NAMEPLATE

DIGITAL OPERATOR



MODEL #	VOLTAGE (VAC)	OUTPUT CURRENT (A)	WEIGHT LBS (Kg)	HEAT LOSS (W)		
				INT	EXT	TOTAL
4185	480	414	572 (260)	1328	2636	3964
4220		515	616 (280)	1712	3797	5509

INT=INTERNAL COMPONENTS  
EXT=EXTERNAL HEATSINK

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES:

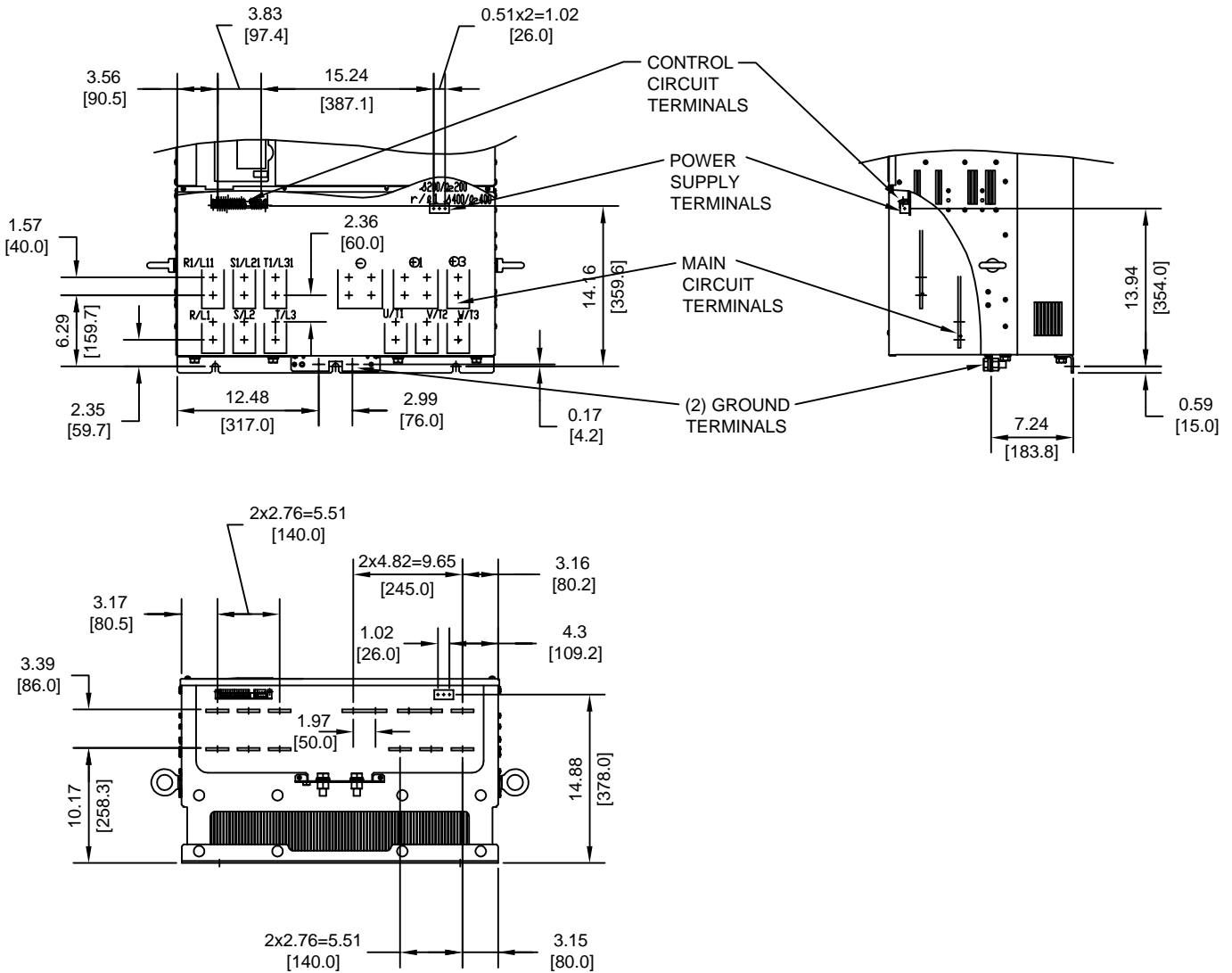
UNITS: IN[mm]      SCALE: 1:15

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http://www.yaskawa.com

DRAWN: J. MATTAS	DATE: 5-2-05	TITLE: E7 DIMENSION DRAWING		
CHECKED: M. RUCINSKI	DATE: 6-5-05	FRAME SIZE 14		
TECH: J. CAIRO	DATE: 5-4-05	IP00 ENCLOSURE		
APPROVED: T. SASADA	DATE: 6-8-05	SIZE: A	REVISION: R00	PAGE: 1 of 3
ORIGINAL DESIGN: -	DATE: -	DRAWING #: DD.E7.FR14.IP00.01		

TERMINAL AND WIRING DETAILS (SCALE 1:15)




TERMINAL AND WIRE SPECIFICATIONS FOR MAIN CIRCUIT AND GROUND

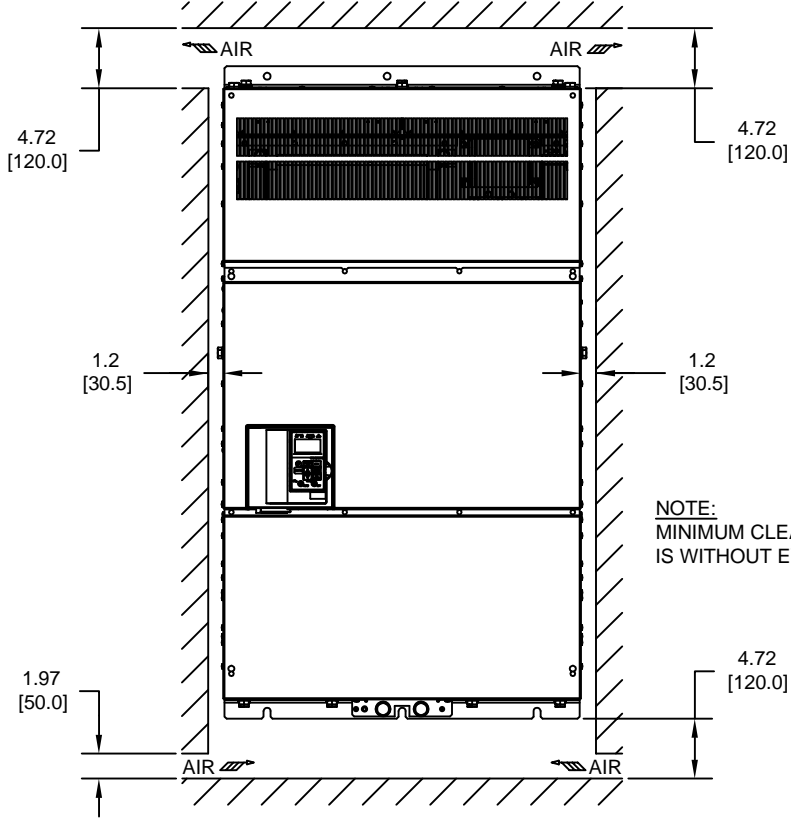
MODEL # CIMR-E7U	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)
4185	R/L1, S/L2, T/L3, ⊙, ⊕1, ⊕2, ⊕3, U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M16	694 TO 867 (78.4 TO 98.0)
	r/1, s200/2200, s400/2400	M4	11.4 TO 12.3 (1.3 TO 1.4)
4220	R/L1, S/L2, T/L3, ⊙, ⊕1, ⊕2, ⊕3, U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M16	694 TO 867 (78.4 TO 98.0)
	r/1, s200/2200, s400/2400	M4	11.4 TO 12.3 (1.3 TO 1.4)

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

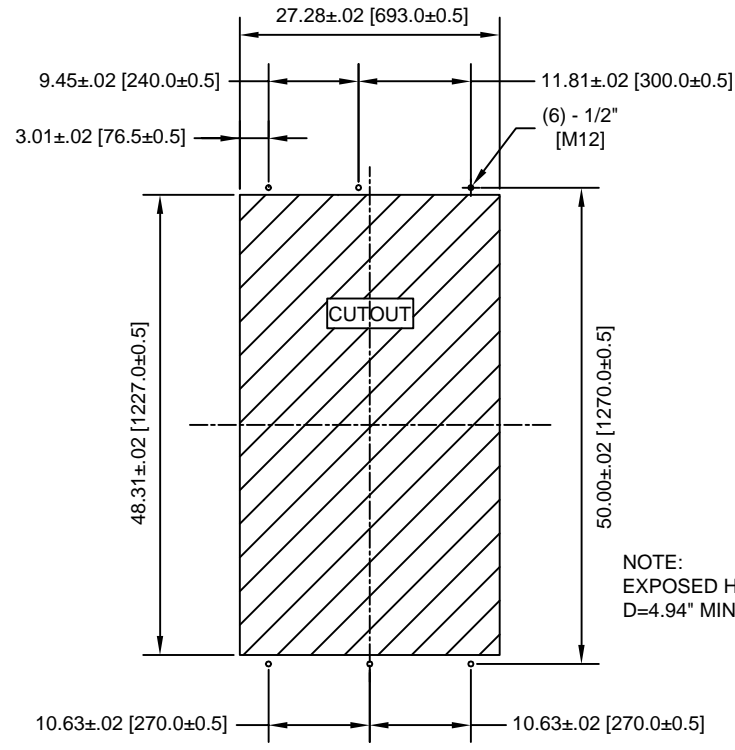
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - -	 <b>YASKAWA</b> <i>A World of Automation Solutions™</i> <b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA <a href="http://www.yaskawa.com">http://www.yaskawa.com</a>	DRAWN: <b>J. MATTAS</b>	DATE: <b>5-2-05</b>	TITLE: <b>E7 DIMENSION DRAWING</b>		
		CHECKED: <b>M. RUCINSKI</b>	DATE: <b>6-5-05</b>	<b>FRAME SIZE 14</b>		
		TECH: <b>J. CAIRO</b>	DATE: <b>5-4-05</b>	<b>IP00 ENCLOSURE</b>		
		APPROVED: <b>T. SASADA</b>	DATE: <b>6-8-05</b>	<b>E7U4185, 4220</b>		
UNITS: IN[mm]	SCALE: BY VIEW	ORIGINAL DESIGN: -	DATE: -	SIZE: A	REVISION: R00	PAGE: 2 of 3
		DRAWING #: <b>DD.E7.FR14.IP00.01</b>				

MINIMUM INSTALLATION CLEARANCES (SCALE 1:15)




PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:20)



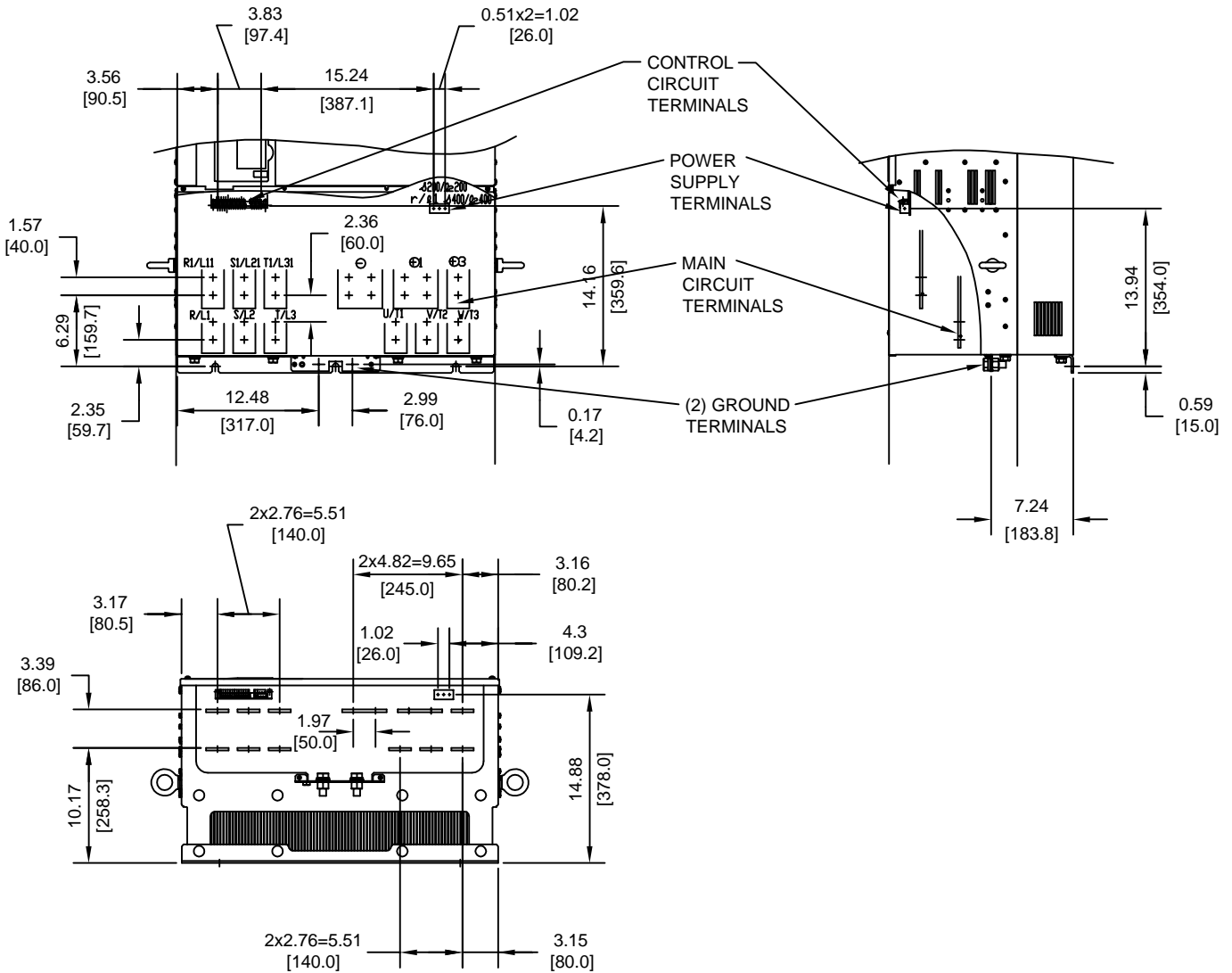
NOTE:  
EXPOSED HEATSINK DEPTH  
D=4.94" MINUS PANEL THICKNESS

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: -		 <b>YASKAWA</b> <i>A World of Automation Solutions™</i> <b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA <a href="http://www.yaskawa.com">http://www.yaskawa.com</a>	DRAWN: <b>J. MATTAS</b>	DATE: <b>5-2-05</b>	TITLE: <b>E7 DIMENSION DRAWING</b>		
UNITS: <b>IN[mm]</b>	SCALE: <b>BY VIEW</b>		CHECKED: <b>M. RUCINSKI</b>	DATE: <b>6-5-05</b>	<b>FRAME SIZE 14</b> <b>IP00 ENCLOSURE</b> <b>E7U4185, 4220</b>		
		TECH: <b>J. CAIRO</b>	DATE: <b>5-4-05</b>	SIZE: <b>A</b>	REVISION: <b>R00</b>	PAGE: <b>3 of 3</b>	
		APPROVED: <b>T. SASADA</b>	DATE: <b>6-8-05</b>	DRAWING #: <b>DD.E7.FR14.IP00.01</b>			
		ORIGINAL DESIGN: -	DATE: -				



TERMINAL AND WIRING DETAILS (SCALE 1:15)




TERMINAL AND WIRE SPECIFICATIONS FOR MAIN CIRCUIT AND GROUND

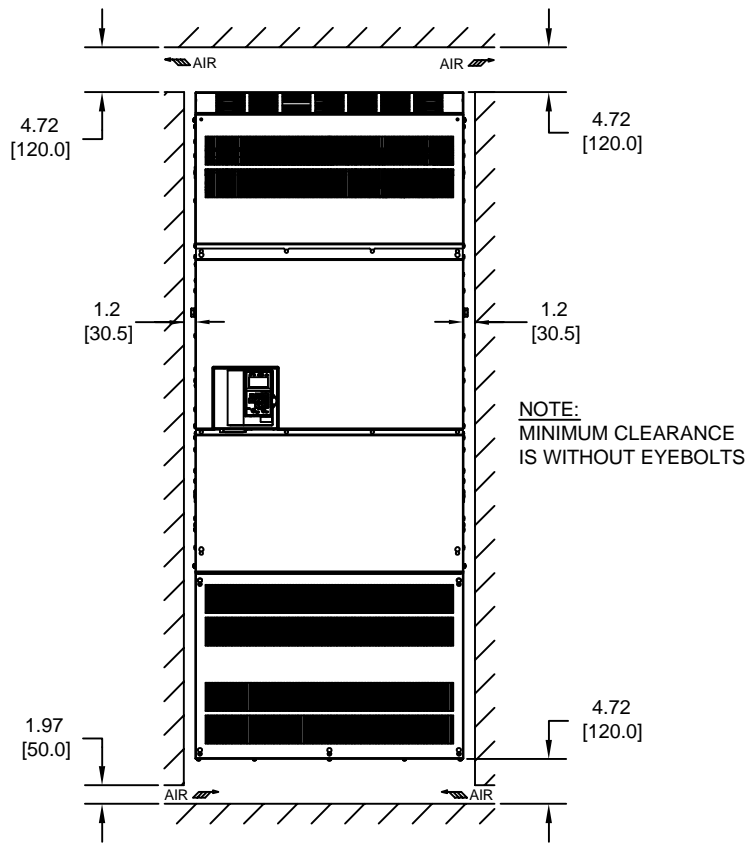
MODEL # CIMR-E7U	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)
4185	R/L1, S/L2, T/L3, ⊙, ⊕1, ⊕2, ⊕3, U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M16	694 TO 867 (78.4 TO 98.0)
	r/1, s200/2200, s400/2400	M4	11.4 TO 12.3 (1.3 TO 1.4)
4220	R/L1, S/L2, T/L3, ⊙, ⊕1, ⊕2, ⊕3, U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M16	694 TO 867 (78.4 TO 98.0)
	r/1, s200/2200, s400/2400	M4	11.4 TO 12.3 (1.3 TO 1.4)

NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

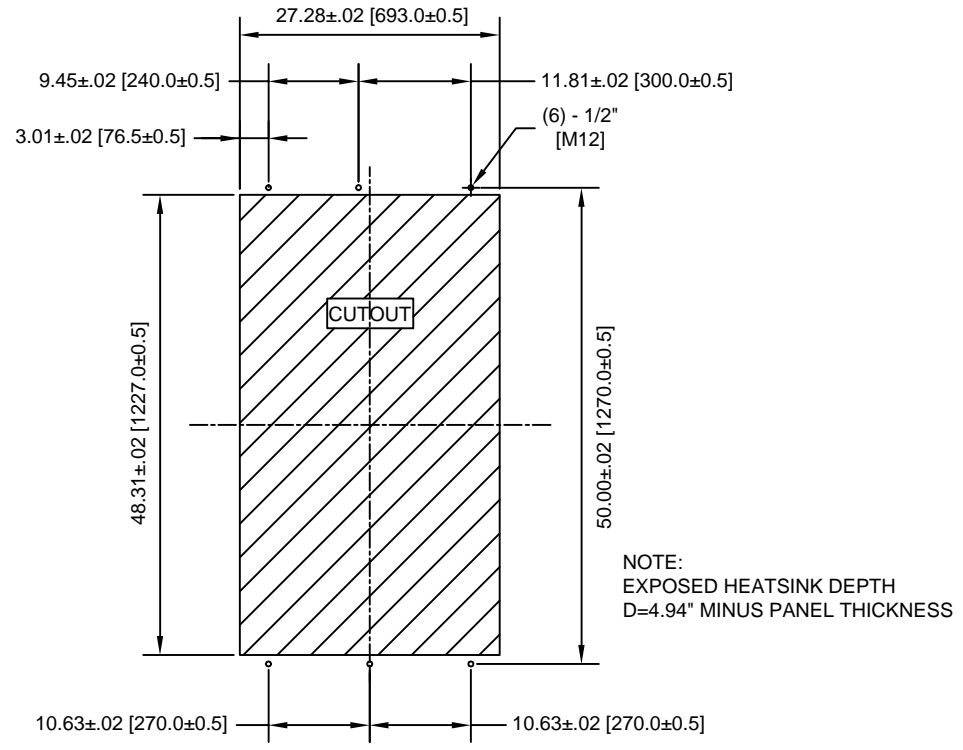
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - -	 <b>YASKAWA</b> <i>A World of Automation Solutions™</i> <b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA <a href="http://www.yaskawa.com">http://www.yaskawa.com</a>	DRAWN: <b>J. MATTAS</b>	DATE: <b>5-21-08</b>	TITLE: <b>E7 DIMENSION DRAWING</b>		
		CHECKED: <b>J. MATTAS</b>	DATE: <b>7-25-08</b>	FRAME SIZE 14 NEMA TYPE 1/IP20 ENCLOSURE E7U4185, 4220		
		TECH: <b>J. CAIRO</b>	DATE: <b>8-1-08</b>	SIZE: <b>A</b>	REVISION: <b>R00</b>	PAGE: <b>2 of 3</b>
		APPROVED: <b>T. SASADA</b>	DATE: <b>8-8-08</b>	DRAWING #: <b>DD.E7.FR14.N1.01</b>		
UNITS: <b>IN[mm]</b>	SCALE: <b>BY VIEW</b>	ORIGINAL DESIGN: -	DATE: -			


MINIMUM INSTALLATION CLEARANCES (SCALE 1:20)



PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:20)

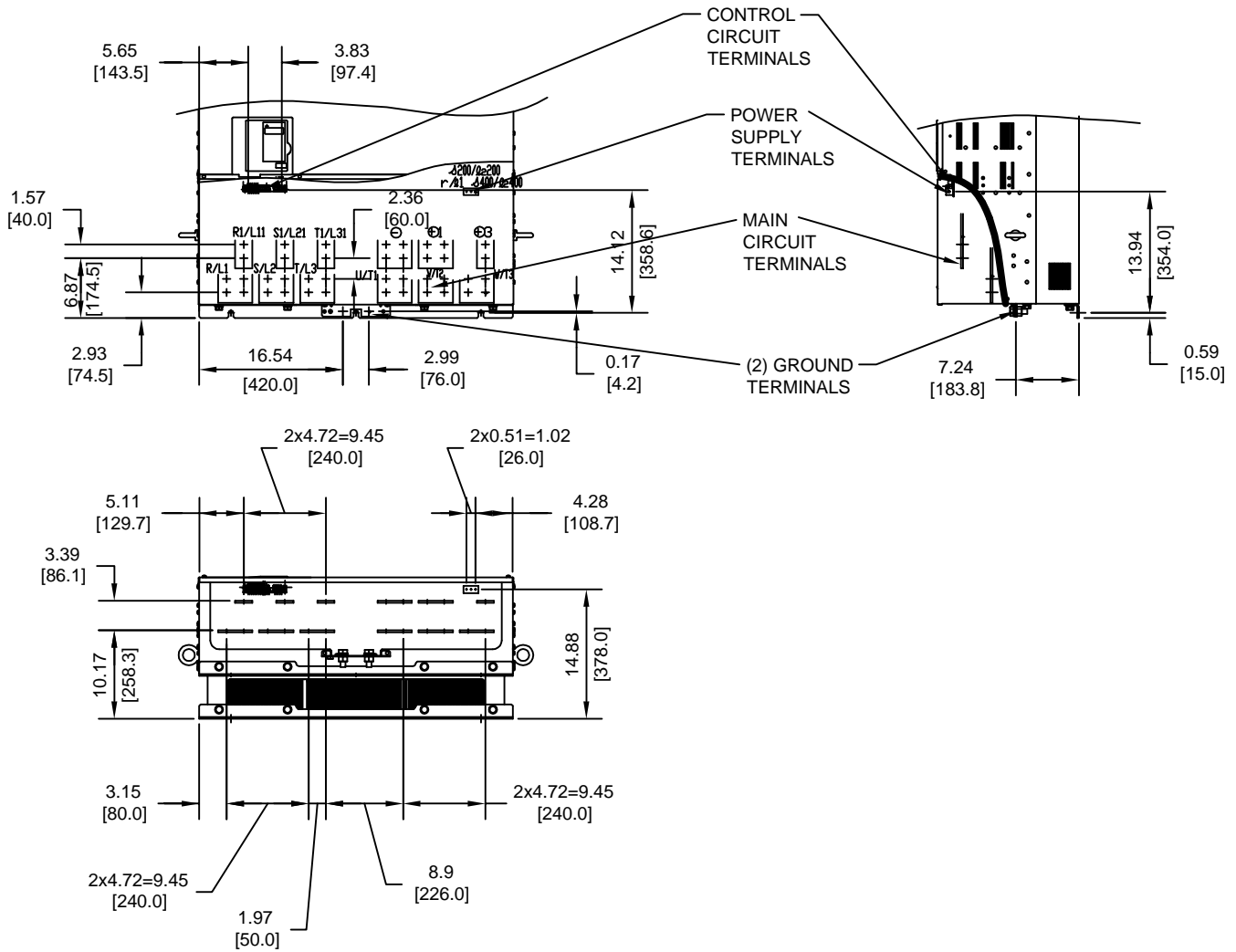


FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - - -	 <b>YASKAWA</b> <i>A World of Automation Solutions™</i> <b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA <a href="http://www.yaskawa.com">http://www.yaskawa.com</a>	DRAWN: J. MATTAS	DATE 5-21-08	TITLE: E7 DIMENSION DRAWING		
		CHECKED: J. MATTAS	DATE 7-25-08	FRAME SIZE 14		
		TECH: J. CAIRO	DATE 8-1-08	NEMA TYPE 1/IP20 ENCLOSURE		
		APPROVED: T. SASADA	DATE 8-8-08	E7U4185, 4220		
UNITS: IN[mm]	SCALE: BY VIEW	ORIGINAL DESIGN: -	DATE -	SIZE A	REVISION R00	PAGE 3 of 3
				DRAWING #: <b>DD.E7.FR14.N1.01</b>		



TERMINAL AND WIRING DETAILS (SCALE 1:20)



TERMINAL AND WIRE SPECIFICATIONS FOR  
MAIN CIRCUIT AND GROUND

MODEL #	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)
CIMR-E7U	R/L1, S/L2, T/L3, U, V, W, G1, G2, G3	M16	694 TO 867 (78.4 TO 98.0)
4300	U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M4	11.4 TO 12.3 (1.3 TO 1.4)

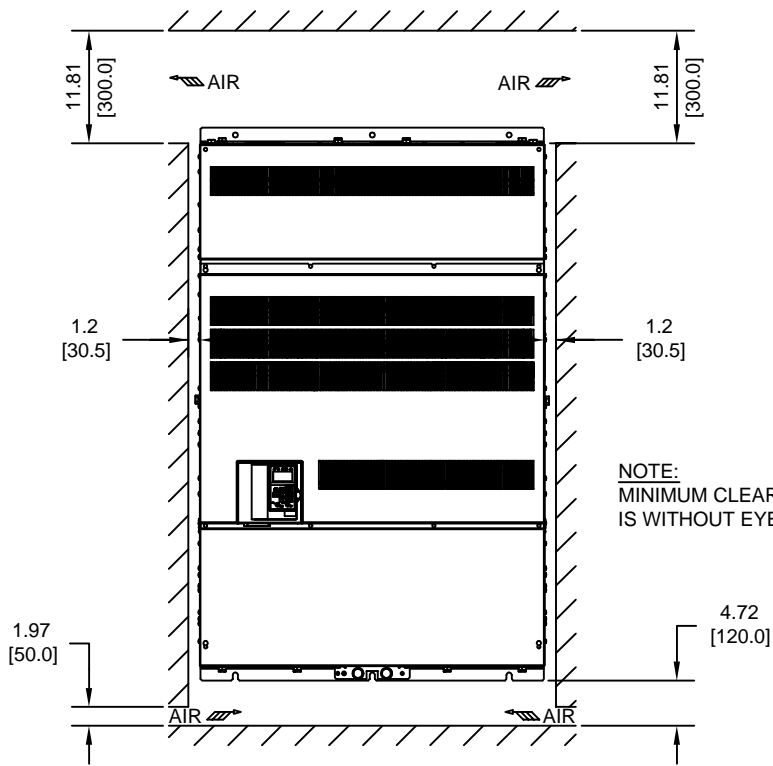
NOTE: REFER TO APPLICABLE CODES FOR PROPER WIRE TYPE AND SIZE

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - - -	<p><b>YASKAWA</b> A World of Automation Solutions™</p> <p>YASKAWA ELECTRIC AMERICA, INC. Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com</p>	DRAWN: J. MATTAS	DATE 5-2-05	TITLE: E7 DIMENSION DRAWING		
		CHECKED: M. RUCINSKI	DATE 6-5-05	FRAME SIZE 15		
		TECH: J. CAIRO	DATE 5-4-05	IP00 ENCLOSURE		
		APPROVED: T. SASADA	DATE 6-8-05	E7U4300		
UNITS: IN[mm]	SCALE: BY VIEW	ORIGINAL DESIGN: -	DATE -	SIZE A	REVISION R00	PAGE 2 of 3
				DRAWING #: <b>DD.E7.FR15.IP00.01</b>		

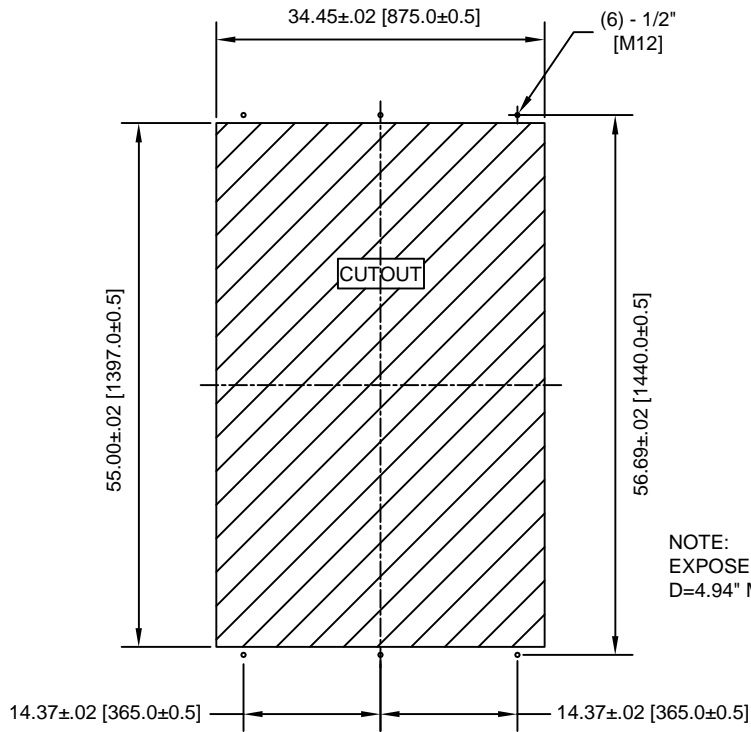


MINIMUM INSTALLATION CLEARANCES (SCALE 1:20)




NOTE:  
MINIMUM CLEARANCE  
IS WITHOUT EYEBOLTS

PANEL CUTOUT FOR EXTERNAL HEATSINK  
MOUNTING CONFIGURATION (SCALE 1:20)

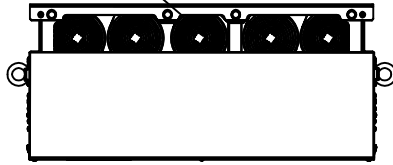


NOTE:  
EXPOSED HEATSINK DEPTH  
D=4.94" MINUS PANEL THICKNESS

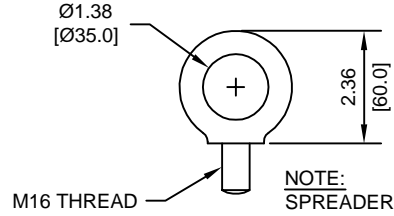
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - - - - - - - -	 <b>YASKAWA</b> <i>A World of Automation Solutions™</i> <b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA <a href="http://www.yaskawa.com">http://www.yaskawa.com</a>	DRAWN: J. MATTAS	DATE 5-2-05	TITLE: E7 DIMENSION DRAWING
		CHECKED: M. RUCINSKI	DATE 6-5-05	FRAME SIZE 15 IP00 ENCLOSURE E7U4300
UNITS: IN[mm]	SCALE: BY VIEW	TECH: J. CAIRO	DATE 5-4-05	SIZE A
		APPROVED: T. SASADA	DATE 6-8-05	REVISION R00
		ORIGINAL DESIGN: -	DATE -	PAGE 3 of 3
				DRAWING #: <b>DD.E7.FR15.IP00.01</b>

(5) EXTERNAL COOLING FANS

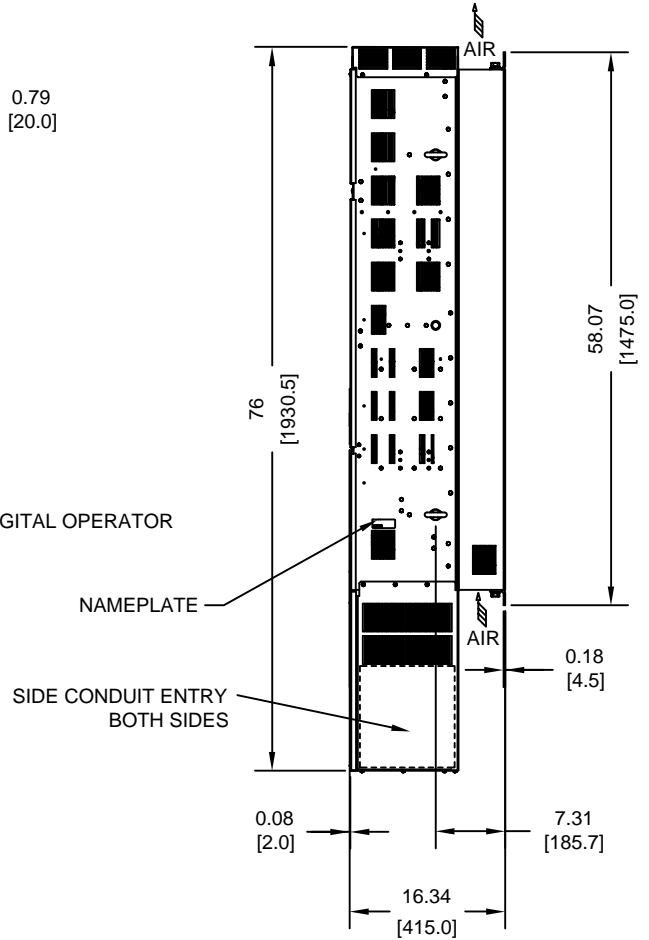
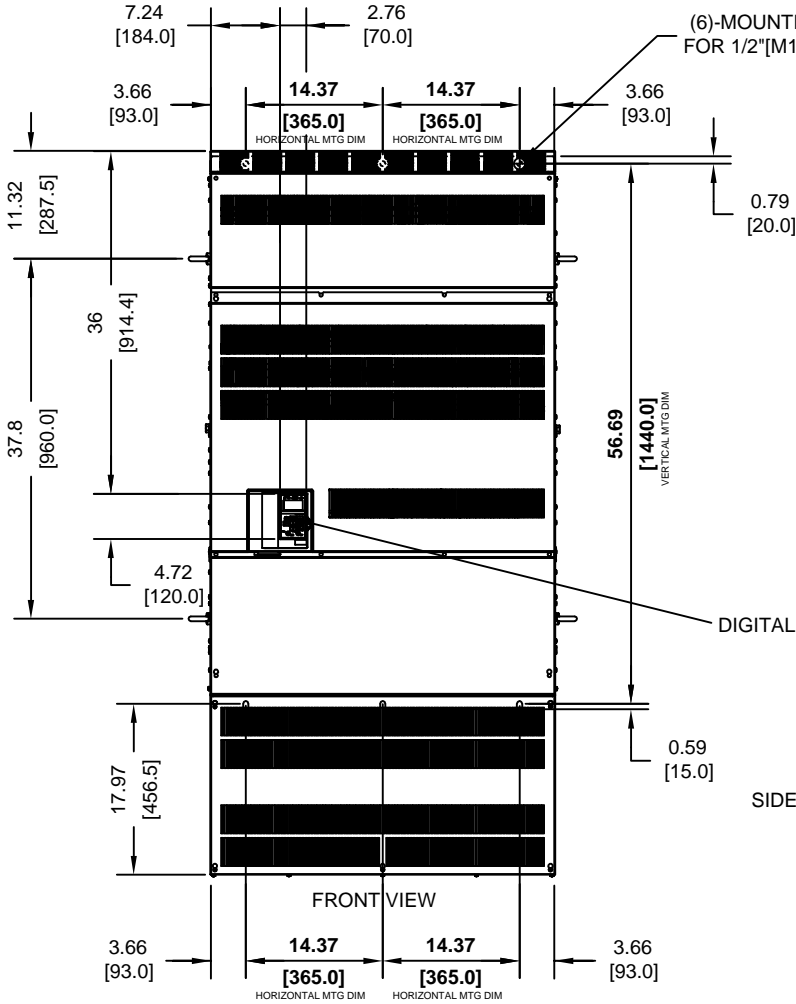


LIFTING AND EYEBOLT DETAILS

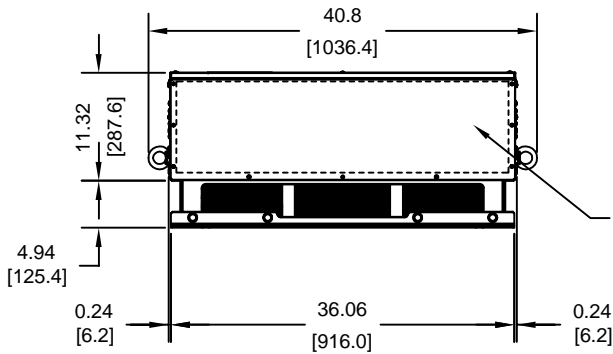


NOTE:  
SPREADER BAR REQUIRED TO AVOID DAMAGE DURING LIFTING

(6)-MOUNTING HOLES FOR 1/2" [M12] SCREWS



FRONT VIEW



MODEL #	VOLTAGE (VAC)	OUTPUT CURRENT (A)	WEIGHT LBS (Kg)	HEAT LOSS (W)		
				INT	EXT	TOTAL
CIMR-E7U	480	675	940 (427)	2482	5838	8320

INT=INTERNAL COMPONENTS  
EXT=EXTERNAL HEATSINK

BOTTOM CONDUIT ENTRY

FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES:

UNITS: IN[mm] SCALE: 1:20

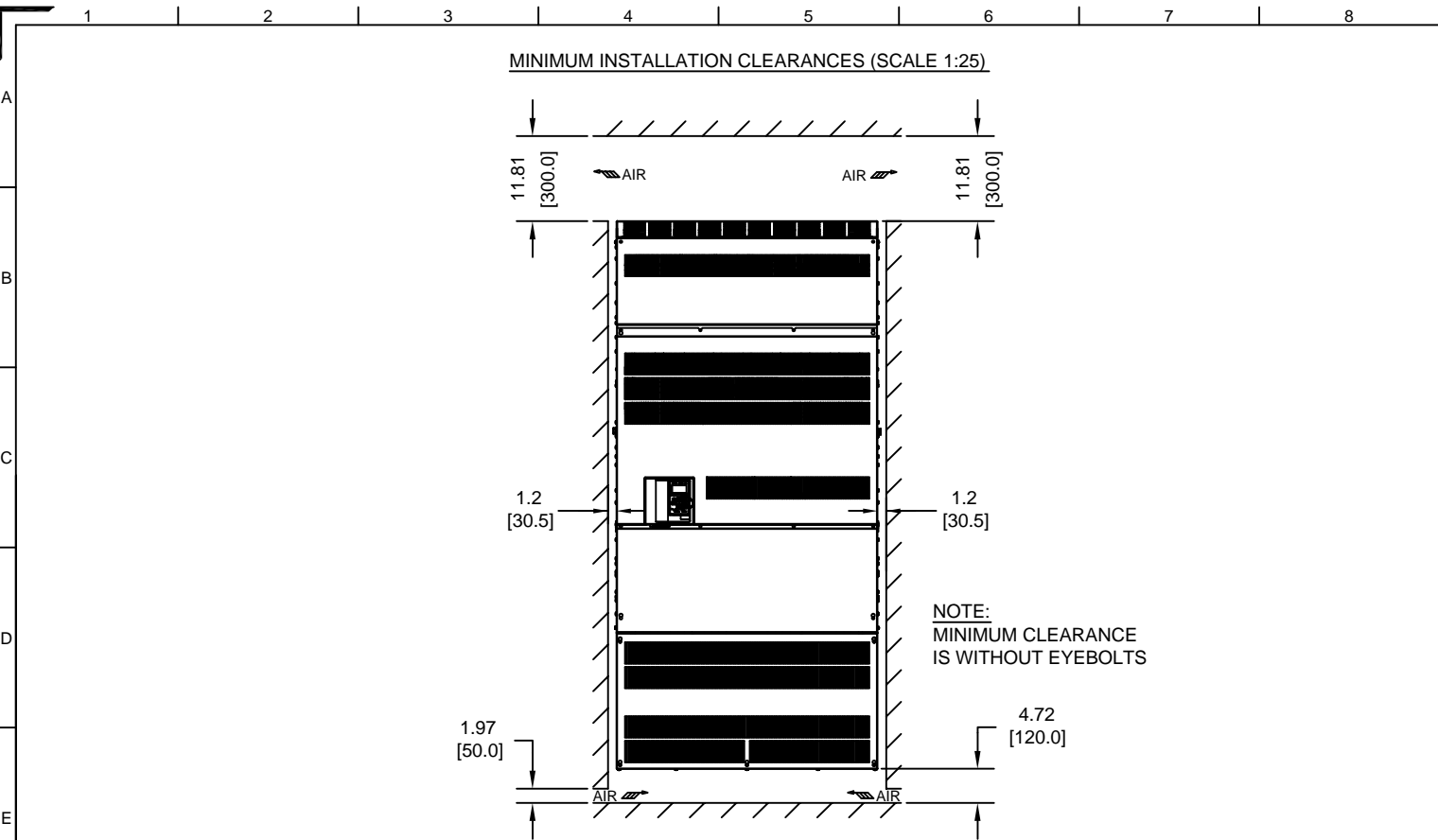
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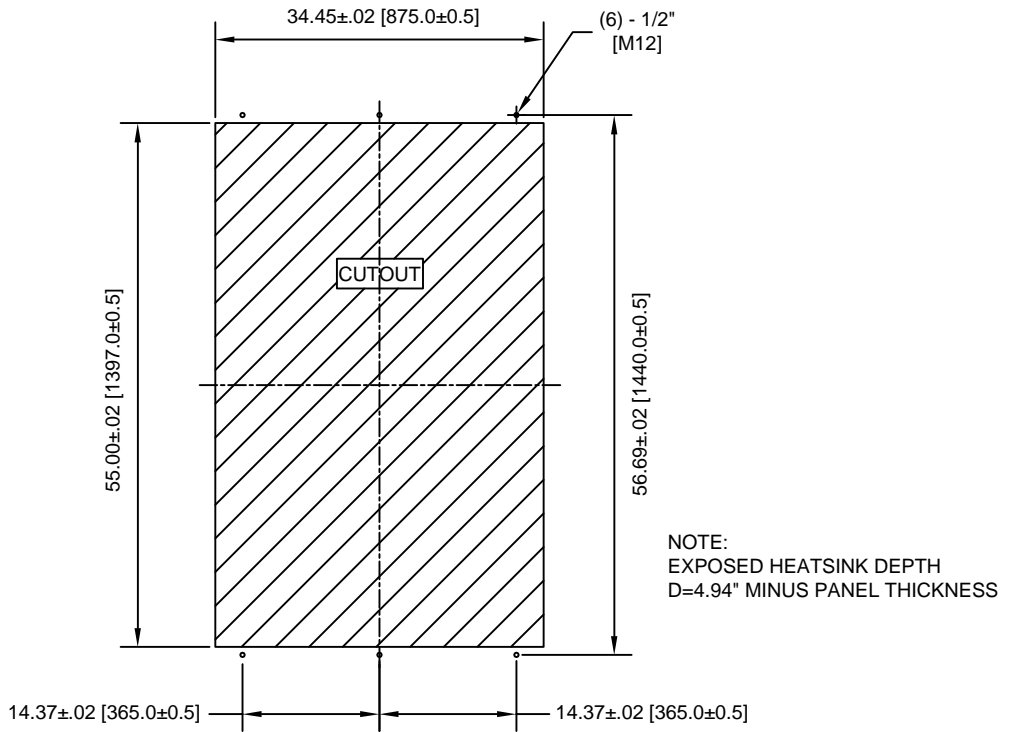
DRAWN: J. MATTAS	DATE: 5-21-08
CHECKED: J. MATTAS	DATE: 7-25-08
TECH: J. CAIRO	DATE: 8-1-08
APPROVED: T. SASADA	DATE: 8-8-08
ORIGINAL DESIGN: -	DATE: -

TITLE: E7 DIMENSION DRAWING		
FRAME SIZE 15		
NEMA TYPE 1/IP20 ENCLOSURE		
E7U4300		
SIZE: A	REVISION: R00	PAGE: 1 of 3
DRAWING #: DD.E7.FR15.N1.01		






**PANEL CUTOUT FOR EXTERNAL HEATSINK MOUNTING CONFIGURATION (SCALE 1:20)**



FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: -		 <b>YASKAWA</b> <i>A World of Automation Solutions™</i> <b>YASKAWA ELECTRIC AMERICA, INC.</b> Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA <a href="http://www.yaskawa.com">http://www.yaskawa.com</a>	DRAWN: <b>J. MATTAS</b>	DATE: <b>5-21-08</b>	TITLE: <b>E7 DIMENSION DRAWING</b>		
UNITS: IN[mm]			CHECKED: <b>J. MATTAS</b>	DATE: <b>7-25-08</b>	<b>FRAME SIZE 15</b> <b>NEMA TYPE 1/IP20 ENCLOSURE</b> <b>E7U4300</b>		
SCALE: BY VIEW		TECH: <b>J. CAIRO</b>	DATE: <b>8-1-08</b>	SIZE <b>A</b>	REVISION <b>R00</b>	PAGE <b>3 of 3</b>	
		APPROVED: <b>T. SASADA</b>	DATE: <b>8-8-08</b>	DRAWING #: <b>DD.E7.FR15.N1.01</b>			
		ORIGINAL DESIGN: -	DATE: -				