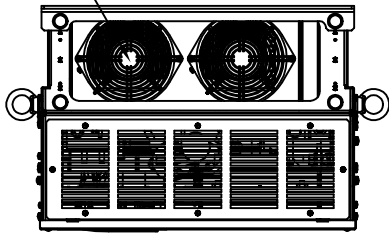
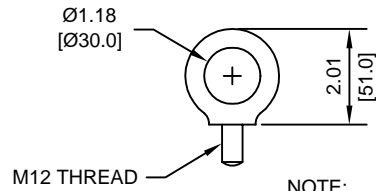


(2) EXTERNAL COOLING FANS

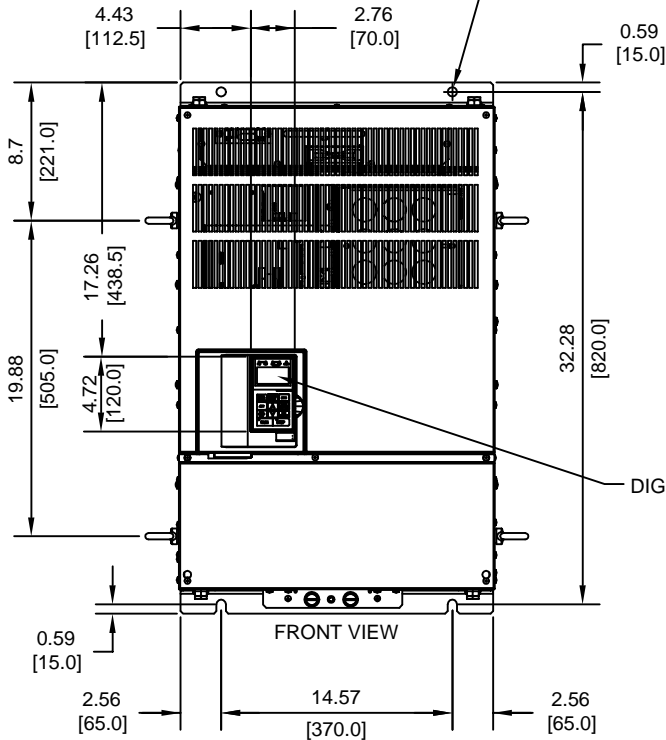


LIFTING AND EYEBOLT DETAILS



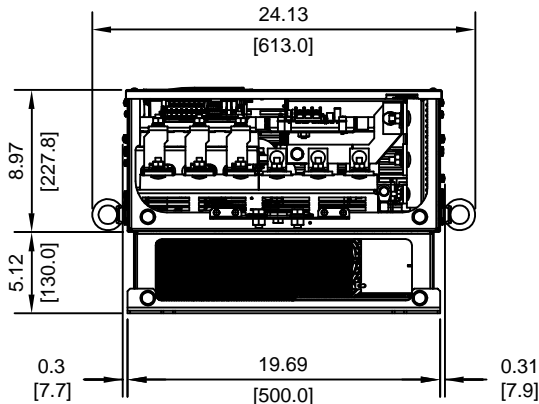
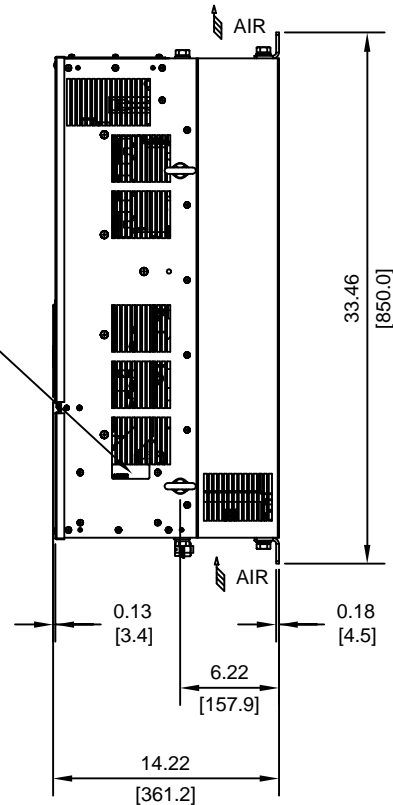
NOTE:
SPREADER BAR REQUIRED TO AVOID DAMAGE DURING LIFTING

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



NAMEPLATE

DIGITAL OPERATOR



MODEL # CIMR-F7U	VOLTAGE (VAC)	OUTPUT CURRENT (A)		WEIGHT LBS (Kg)	HEAT LOSS (W)		
		ND2	HD		INT	EXT	TOTAL
2090	208/230	360	346	238 (108)	964	2194	3158
4110	480	240	216	224 (102)	847	1889	2736
4132		260	260	264 (120)	1005	2388	3393

ND2=NORMAL DUTY 2
HD=HEAVY DUTY

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

DATE: 6-18-03
DATE: 7-2-03
DATE: 6-30-03
DATE: 7-7-03
DATE: -

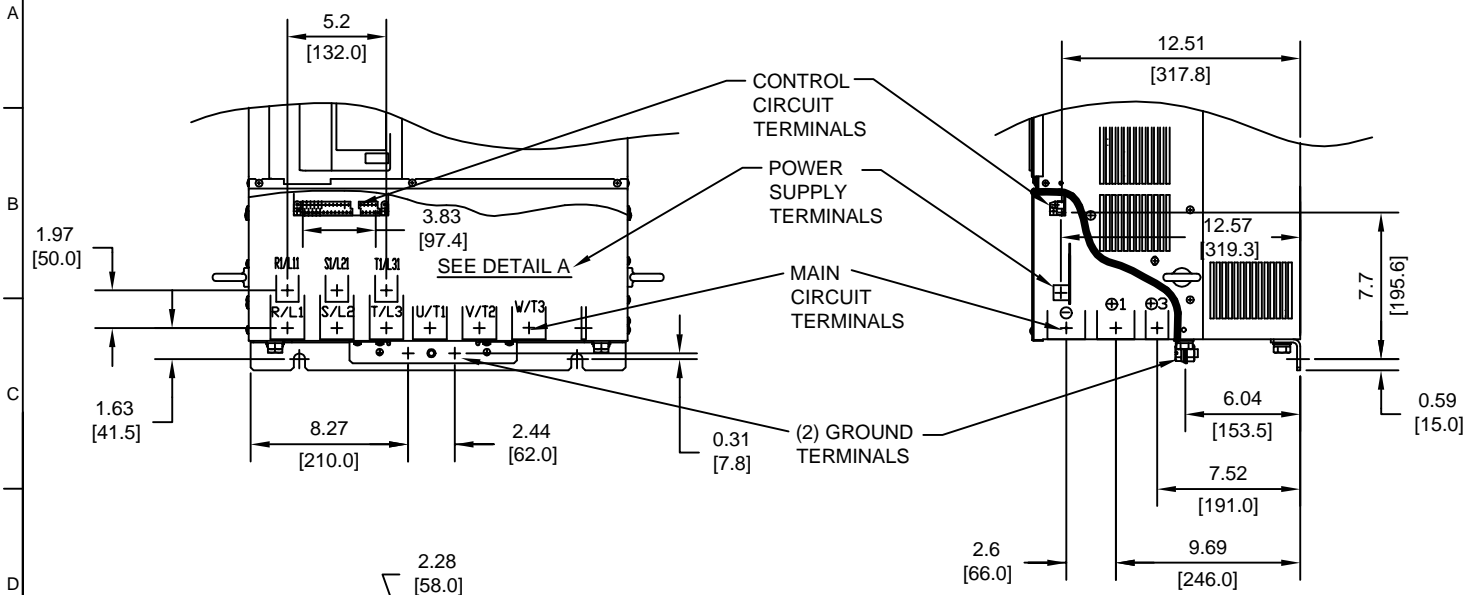
TITLE: F7 DIMENSION DRAWING
FRAME SIZE 11
IP00 ENCLOSURE
F7U2090, 4110 TO 4132

SIZE A	REVISION A	PAGE 1 of 3
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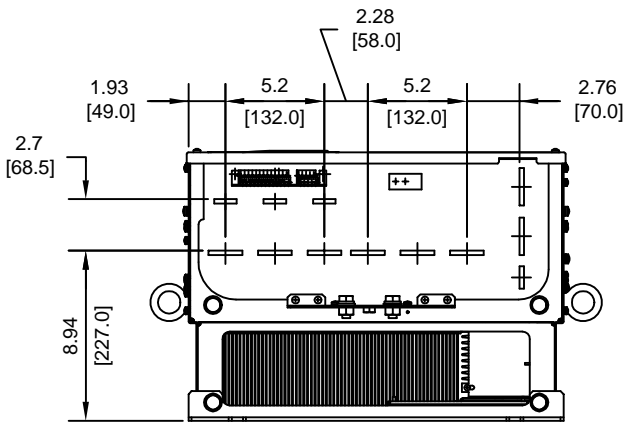
DRAWING #: DD.F7.FR11.IP00.01

UNITS: IN[mm]
SCALE: 1:12

TERMINAL AND WIRING DETAILS (SCALE 1:10)

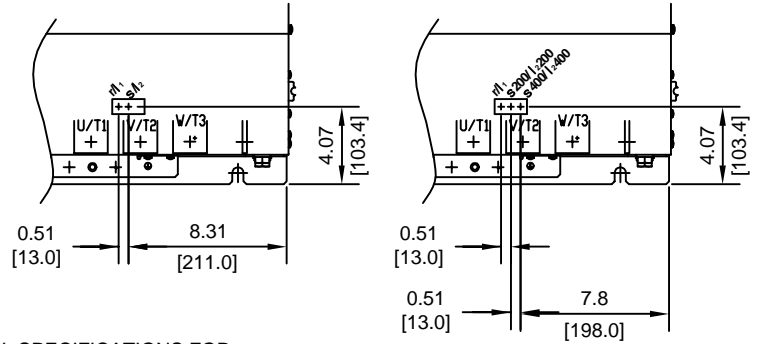


DETAIL A (SCALE 1:10)



MODEL F7U2090

MODELS F7U4110 AND F7U4132



TERMINAL SPECIFICATIONS FOR MAIN CIRCUIT AND GROUND

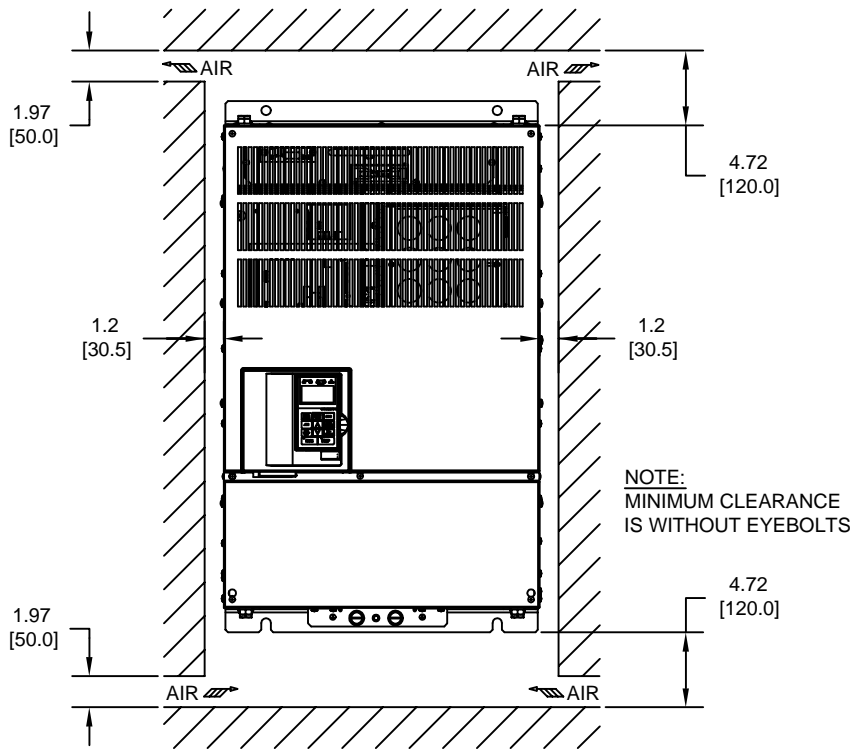
MODEL # CIMR-F7U	TERMINAL SYMBOL	TERMINAL SCREW	CLAMPING TORQUE lb.in.(N.m.)
2090	R/L1, S/L2, T/L3, ⊕, ⊕1, ⊕, U/T1, V/T2, W/T3, R1/L11, S1/L21, T1/L31	M12	276 TO 345 (31.4 TO 39.2)
	⊕3	M8	78.0 TO 95.0 (8.8 TO 10.8)
	r1 1, s/2	M4	11.4 TO 12.3 (1.3 TO 1.4)
4110	R/L1, S/L2, T/L3, ⊕, ⊕1, U/T1, V/T2, W/T3, 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

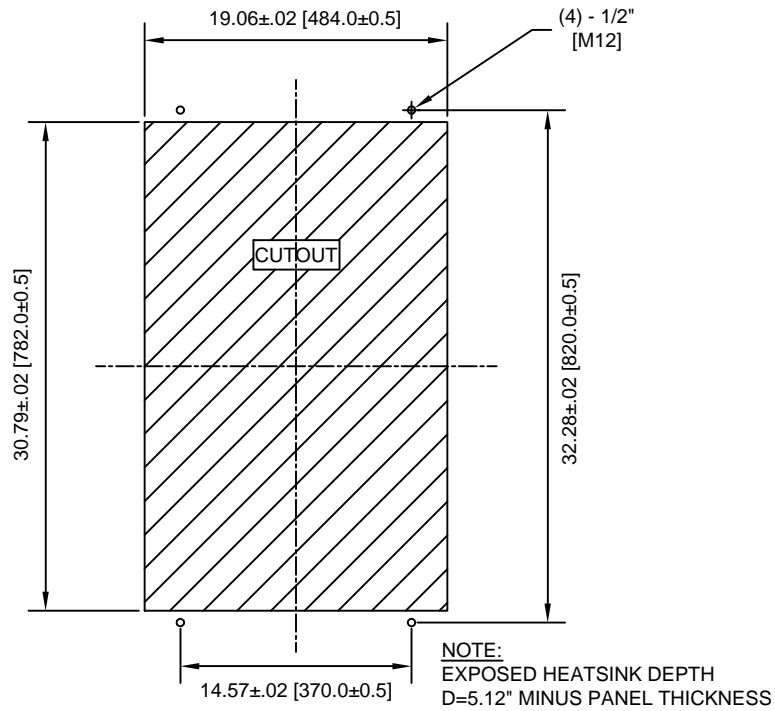
FOR ADDITIONAL DETAILS AND SPECIFICATIONS, CONSULT MANUAL

TOLERANCES/REFERENCES: - - - -	<p>YASKAWA 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 6-18-03	TITLE: F7 DIMENSION DRAWING FRAME SIZE 11 IP00 ENCLOSURE F7U2090, 4110 TO 4132		
		CHECKED: M. RUCINSKI	DATE 7-2-03	SIZE	REVISION	PAGE
		TECH: J. CAIRO	DATE 6-30-03	A	A	2 of 3
		APPROVED: T. SASADA	DATE 7-7-03	DRAWING # DD.F7.FR11.IP00.01		
UNITS: IN[mm]	SCALE: BY VIEW	ORIGINAL DESIGN: -	DATE -			


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: -		 YASKAWA <i>A World of Automation Solutions™</i> YASKAWA ELECTRIC AMERICA, INC. Corporate Headquarters 2121 Norman Drive South Waukegan, IL 60085 1-800-YASKAWA http://www.yaskawa.com	DRAWN: J. MATTAS	DATE: 6-18-03	TITLE: F7 DIMENSION DRAWING		
UNITS: IN[mm]	SCALE: BY VIEW		CHECKED: M. RUCINSKI	DATE: 7-2-03	FRAME SIZE 11 IP00 ENCLOSURE F7U2090, 4110 TO 4132		
		TECH: J. CAIRO	DATE: 6-30-03	SIZE A	REVISION A	PAGE 3 of 3	
		APPROVED: T. SASADA	DATE: 7-7-03	DRAWING #: DD.F7.FR11.IP00.01			
		ORIGINAL DESIGN: -	DATE: -				