

Transformers

Product Overview

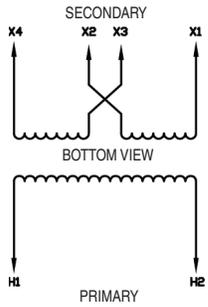
Transformers

				
Bulletin	1497	1497A	1497B	1497D
Type	Control Circuit Transformer	Machine Tool Transformer	Control Power Transformer	General Purpose Transformer
Features	<ul style="list-style-type: none"> • Single, dual, and multi-tap primary voltages • Single phase • EN 60-529 finger-safe protection • RoHS compliant • 50/60 Hz, 50 Hz, or 60 Hz • Optional Fusing 	<ul style="list-style-type: none"> • Dual/Multi-tap • RoHS compliant • Single phase • 50/60 Hz • Optional Fusing 	<ul style="list-style-type: none"> • Dual/Multi-tap • RoHS compliant • Single phase • 60 Hz only • Optional Fusing 	<ul style="list-style-type: none"> • Indoor/outdoor non-ventilated enclosure • Single phase • Exceeds requirements of the Uniform Building Code (UBC) and California Code Title 24 • Copper windings provided for all transformers rated 2 kVA and below • Aluminum windings provided for all transformers rated 2 kVA and above • NEMA Type 3R rated enclosures • 50/60 HZ or 60 Hz
Output Power	63...2000VA	50...3000VA	50...3000VA	0.05...25 kVA
Input Voltage/ Primary Voltage	208...600V 220...550 (50 Hz)	208...575V (50/60 Hz)	120...600V	208...600V
Output Voltage/ Secondary Voltage	24...120V 24...230V (50 Hz)	24...120V (50/60 Hz)	24...240V	120...240V
Insulation	63...2000VA — Class 130 °C (55...80 °C temp. rise)	50...150VA — Class 105 °C (55 °C temp. rise) 200...1500VA — Class 130 °C (80 °C temp. rise) 2000...3000VA — Class 180 °C (100 °C temp. rise)		Class 180 °C (115 °C temp. rise)
Certifications	cULus, CE	cULus	cULus	UL, CSA
Standards	CSA C22.2 No. 66.1, EN 61558, UL 5085-1, 5085-2	CSA C22.2 No. 66.1, UL 5085-1, 5085-2	CSA C22.2 No. 66.1, UL 5085-1, 5085-2	CSA C22.2 No. 47 — M90, UL 1561
Product Selection	Page 8-39	Page 8-46	Page 8-53	Page 8-59

Bulletin 1497D
General Purpose Transformers
 Product Selection

208V Primary with No Taps

Secondary — 120/240V



Primary — 208V

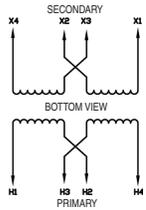
Winding	Voltage Accuracy [V]	Connect	Line
Primary	208	—	H1-H2
	240	X2-X3	X1-X4
Secondary	240/120*	X2-X3	X1-X3-X4
	120	X1X3-X2X4	X1-X4

* Three wire operation

Continuous kVA	Frequency [Hz]	Temp. Rise [°C (°F)]	Cat. No.
0.050	60	115 (239)	1497D-A1-M20-0-N
0.075			1497D-A2-M20-0-N
0.100			1497D-A3-M20-0-N
0.150			1497D-A4-M20-0-N
0.250			1497D-A6-M20-0-N
0.500			1497D-A9-M20-0-N
0.750			1497D-A10-M20-0-N
1.0			1497D-A11-M20-0-N
1.5			1497D-A12-M20-0-N
2.0			1497D-A13-M20-0-N
3.0			1497D-A14-M20-0-N
5.0			1497D-A15-M20-0-N
7.5			1497D-A16-M20-0-N
10.0			1497D-A17-M20-0-N
15.0			1497D-A18-M20-0-N
25.0			1497D-A20-M20-0-N

240x480V Primary with No Taps

Secondary — 120/240V



Primary — 240x480V

Winding	Voltage Accuracy [V]	Connect	Line
Primary	480	H2-H3	H1-H4
	240	H1H3-H2H4	H1-H4
Secondary	240	X2-X3	X1-X4
	240/120*	X2-X3	X1-X3-X4
	120	X1X3-X2X4	X1-X4

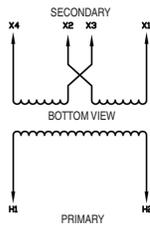
* Three wire operation

Continuous kVA	Frequency [Hz]	Temp. Rise [°C (°F)]	Cat. No.
0.050	60	115 (239)	1497D-A1-M10-0-N
	50/60		1497D-A1-M14-0-N
0.075	60		1497D-A2-M10-0-N
	50/60		1497D-A2-M14-0-N
0.100	60		1497D-A3-M10-0-N
	50/60		1497D-A3-M14-0-N
0.150	60		1497D-A4-M10-0-N
	50/60		1497D-A4-M14-0-N
0.250	60		1497D-A6-M10-0-N
	50/60		1497D-A6-M14-0-N
0.500	60		1497D-A9-M10-0-N
	50/60		1497D-A9-M14-0-N
0.750	60		1497D-A10-M10-0-N
	50/60		1497D-A10-M14-0-N
1.0	60		1497D-A11-M10-0-N
	50/60		1497D-A11-M14-0-N
1.5	60		1497D-A12-M10-0-N
	50/60		1497D-A12-M14-0-N
2.0	60		1497D-A13-M10-0-N
	50/60		1497D-A13-M14-0-N
3.0	60		1497D-A14-M10-0-N
	50/60		1497D-A14-M14-0-N
5.0	60		1497D-A15-M10-0-N
	50/60		1497D-A15-M14-0-N
7.5	60	1497D-A16-M10-0-N	
	50/60	1497D-A16-M14-0-N	
10.0	60	1497D-A17-M10-0-N	
	50/60	1497D-A17-M14-0-N	
15.0	60	1497D-A18-M10-0-N	
	50/60	1497D-A18-M14-0-N	
25.0	60	1497D-A20-M10-0-N	
	50/60	1497D-A20-M14-0-N	

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480V Primary with No Taps

Secondary — 120/240V

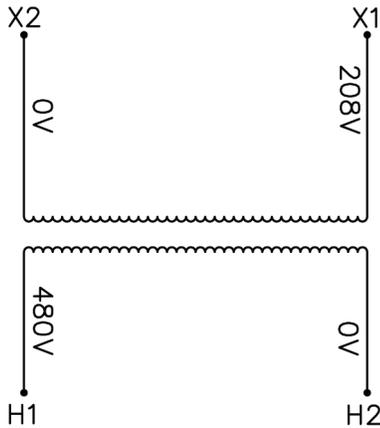


Primary — 480V

Winding	Voltage Accuracy [V]	Connect	Line
Primary	480	—	H1-H2
	240	X2-X3	X1-X4
Secondary	240/120*	X2-X3	X1-X3-X4
	120	X1X3-X2X4	X1-X4

Continuous kVA	Frequency [Hz]	Temp. Rise [°C (°F)]	Cat. No.
0.050	60	115 (239)	1497D-A1-M21-0-N
0.075			1497D-A2-M21-0-N
0.100			1497D-A3-M21-0-N
0.150			1497D-A4-M21-0-N
0.250			1497D-A6-M21-0-N
0.500			1497D-A9-M21-0-N
0.750			1497D-A10-M21-0-N
1.0			1497D-A11-M21-0-N
1.5			1497D-A12-M21-0-N
2.0			1497D-A13-M21-0-N
3.0	1497D-A14-M21-0-N	50/60	115 (239)
5.0	1497D-A15-M22-0-N		
7.5	1497D-A16-M22-0-N		
10.0	1497D-A17-M22-0-N		
15.0	1497D-A18-M22-0-N		
25.0	1497D-A20-M22-0-N		

Secondary — 208V

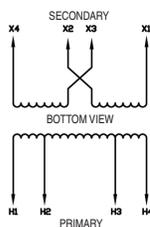


Primary — 480V

Continuous kVA	Frequency [Hz]	Temp. Rise [°C (°F)]	Cat. No.
0.050	60	115 (239)	1497D-A1-M24-0-N
0.075			1497D-A2-M24-0-N
0.100			1497D-A3-M24-0-N
0.150			1497D-A4-M24-0-N
0.250			1497D-A6-M24-0-N
0.500			1497D-A9-M24-0-N
0.750			1497D-A10-M24-0-N
1.0			1497D-A11-M24-0-N
1.5			1497D-A12-M24-0-N
2.0			1497D-A13-M24-0-N
3.0			1497D-A14-M24-0-N
5.0			1497D-A15-M24-0-N
7.5			1497D-A16-M24-0-N
10.0			1497D-A17-M24-0-N
15.0			1497D-A18-M24-0-N
25.0			1497D-A20-M24-0-N

480V Primary with Two 5% Taps Below Rated Primary Volts

Secondary — 120/240V



Primary — 480V

Winding	Voltage Accuracy [V]	Connect	Line
Primary	480	—	H1-H4
	456	—	H2-H4
	432	—	H2-H3
Secondary	240	X2-X3	X1-X4
	240/120*	X2-X3	X1-X3-X4
	120	X1X3-X2X4	X1-X4

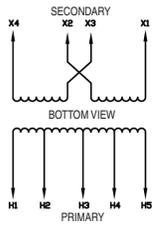
Continuous kVA	Frequency [Hz]	Temp. Rise [°C (°F)]	Tap Quantity	Cat. No.
0.250	50/60	115 (239)	(2) 5% FCBN	1497D-A6-M22-0-2
0.500				1497D-A9-M22-0-2
0.750				1497D-A10-M22-0-2
1.0	60			1497D-A11-M21-0-2
	50/60			1497D-A11-M22-0-2
1.5	60			1497D-A12-M21-0-2
	50/60			1497D-A12-M22-0-2
2.0	60			1497D-A13-M21-0-2
	50/60			1497D-A13-M22-0-2
3.0	60			1497D-A14-M21-0-2
	50/60	1497D-A14-M22-0-2		
5.0	60	1497D-A15-M21-0-2		
7.5		1497D-A16-M21-0-2		
10.0		1497D-A17-M21-0-2		
15.0		1497D-A18-M21-0-2		
25.0		1497D-A20-M21-0-2		

* Three wire operation

Bulletin 1497D
General Purpose Transformers
 Product Selection

480V Primary with Two 2.5% Taps Above & Two 2.5% Below Rated Primary Volts

Secondary — 120/240V



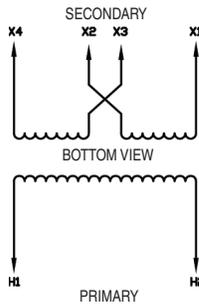
Primary — 480V

Winding	Voltage Accuracy [V]	Connect	Line
Primary	504	—	H1-H5
	492	—	H1-H4
	480	—	H1-H3
	468	—	H2-H4
	456	—	H2-H3
Secondary	240	X2-X3	X1-X4
	240/120*	X2-X3	X1-X3-X4
	120	X1X3-X2X4	X1-X4

Continuous kVA	Frequency [Hz]	Temp. Rise [°C (°F)]	Tap Quantity	Cat. No.
3.0	60	115 (239)	(2) 2.5% FCAN (2) 2.5% FCBN	1497D-A14-M21-0-22
5.0				1497D-A15-M21-0-22
7.5				1497D-A16-M21-0-22
10.0				1497D-A17-M21-0-22
15.0				1497D-A18-M21-0-22
25.0				1497D-A20-M21-0-22

600V Primary with No Taps

Secondary — 120/240V



Primary — 600V

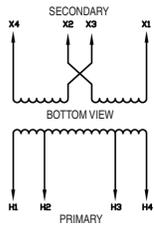
Winding	Voltage Accuracy [V]	Connect	Line
Primary	600	—	H1-H2
Secondary	240	X2-X3	X1-X4
	240/120*	X2-X3	X1-X3-X4
	120	X1X3-X2X4	X1-X4

* Three wire operation

Continuous kVA	Frequency [Hz]	Temp. Rise [°C (°F)]	Cat. No.
0.050	60	115 (239)	1497D-A1-M11-0-N
0.075			1497D-A2-M11-0-N
0.100	60		1497D-A3-M11-0-N
	50/60		1497D-A3-M23-0-N
0.150	60		1497D-A4-M11-0-N
	50/60		1497D-A6-M11-0-N
0.250	60		1497D-A6-M23-0-N
	50/60		1497D-A9-M11-0-N
0.500	60		1497D-A9-M23-0-N
	50/60		1497D-A10-M11-0-N
0.750	60		1497D-A10-M23-0-N
	50/60		1497D-A11-M11-0-N
1.0	60		1497D-A12-M11-0-N
1.5			1497D-A13-M11-0-N
2.0		1497D-A14-M11-0-N	
3.0		1497D-A15-M11-0-N	
5.0		1497D-A16-M11-0-N	
7.5		1497D-A17-M11-0-N	
10.0		1497D-A18-M11-0-N	
15.0		1497D-A20-M11-0-N	
25.0			

600V Primary with Two 5% Taps Below Rated Primary Volts

Secondary — 120/240V



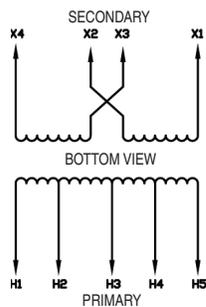
Primary — 600V

Winding	Voltage Accuracy [V]	Connect	Line
Primary	600	—	H1-H2
	570	—	H1-H3
	540	—	H2-H3
Secondary	240	X2-X3	X1-X4
	240/120*	X2-X3	X1-X3-X4
	120	X1X3-X2X4	X1-X4

Continuous kVA	Frequency [Hz]	Temp. Rise [°C (°F)]	Tap Quantity	Cat. No.
0.250	50/60	115 (239)	(2) 5% FCBN	1497D-A6-M23-0-2
0.500				1497D-A9-M23-0-2
1.0	60			1497D-A11-M11-0-2
	50/60			1497D-A11-M23-0-2
1.5	60			1497D-A12-M11-0-2
2.0				1497D-A13-M11-0-2
3.0	60			1497D-A14-M11-0-2
	50/60			1497D-A14-M23-0-2
5.0	60			1497D-A15-M11-0-2
7.5				1497D-A16-M11-0-2
10.0		1497D-A17-M11-0-2		

600V Primary with Four 2.5% Taps Below Rated Primary Volts

Secondary — 120/240V



Primary — 600V

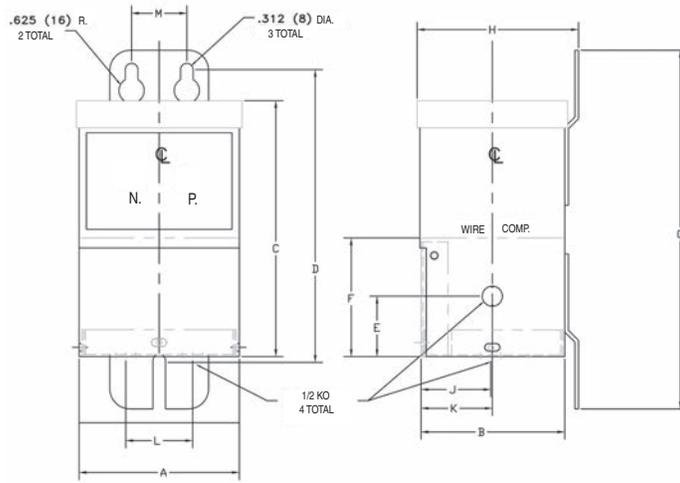
Winding	Voltage Accuracy [V]	Connect	Line
Primary	600	—	H1-H5
	585	—	H1-H4
	570	—	H1-H3
	555	—	H2-H4
	540	—	H2-H3
Secondary	240	X2-X3	X1-X4
	240/120*	X2-X3	X1-X3-X4
	120	X1X3-X2X4	X1-X4

Continuous kVA	Frequency [Hz]	Temp. Rise [°C (°F)]	Tap Quantity	Cat. No.
15.0	60	115 (239)	(4) 2.5% FCBN	1497D-A18-M11-0-4
25.0				1497D-A20-M11-0-4

* Three wire operation

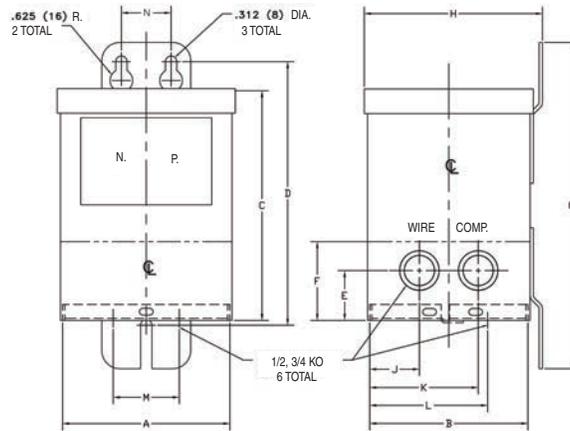
Bulletin 1497D
General Purpose Transformers
 Approximate Dimensions

Dimensions are shown in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.



VA (Code)	Primary and Secondary Voltage Code	A	B	C	D	E	F	G	H	J	K	L	M	Approximate Shipping Wt. lb (kg)
														Copper
50 (A1)	M10, M20, M21, M24	3-31/32 (101)	3-9/16 (90)	6-23/64 (162)	7-17/64 (185)	1-1/2 (38)	2-61/64 (75)	8-29/32 (226)	4 (102)	1-47/64 (44)	1-49/64 (45)	1-2/3 (42)	1-3/8 (35)	8 (4)
	M14	3-31/32 (101)	3-9/16 (90)	6-23/64 (162)	7-3/8 (187)	1-1/2 (38)	2-61/64 (75)	8-29/32 (226)	4 (102)	1-47/64 (44)	1-49/64 (45)	1-2/3 (42)	1-3/8 (35)	8 (4)
	M11	3-31/32 (101)	3-9/16 (90)	6-23/64 (162)	7-17/64 (185)	1-1/2 (38)	2-61/64 (75)	8-29/32 (226)	4 (102)	1-47/64 (44)	1-49/64 (45)	1-2/3 (42)	1-3/8 (35)	8 (4)
75 (A2)	M10, M11, M14, M20, M21, M24	3-31/32 (101)	3-9/16 (90)	6-23/64 (162)	7-17/64 (185)	1-1/2 (38)	2-61/64 (75)	8-29/32 (226)	4 (102)	1-47/64 (44)	1-49/64 (45)	1-2/3 (42)	1-3/8 (35)	8 (4)
100 (A3)	M10, M11, M14, M20, M21, M23, M24	3-31/32 (101)	3-9/16 (90)	6-23/64 (162)	7-17/64 (185)	1-1/2 (38)	2-61/64 (75)	8-29/32 (226)	4 (102)	1-47/64 (44)	1-49/64 (45)	1-2/3 (42)	1-3/8 (35)	8 (4)
150 (A4)	M10, M11, M20, M21, M24	3-31/32 (101)	3-9/16 (90)	6-23/64 (162)	7-17/64 (185)	1-1/2 (38)	2-61/64 (75)	8-29/32 (226)	4 (102)	1-47/64 (44)	1-49/64 (45)	1-2/3 (42)	1-3/8 (35)	8 (4)

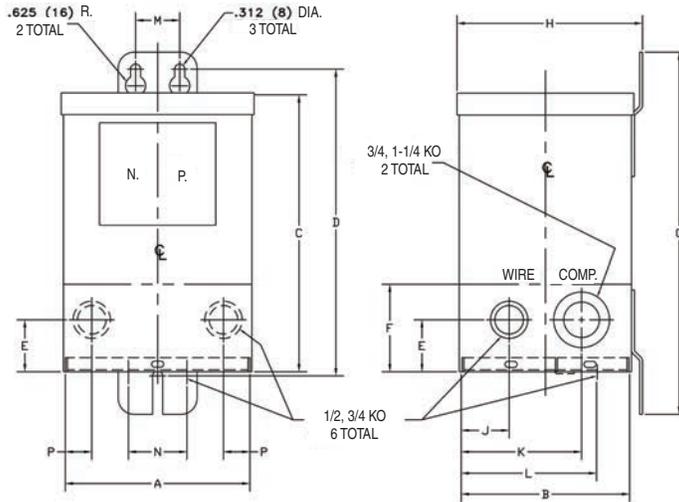
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VA (Code)	Primary and Secondary Voltage Code	A	B	C	D	E	F	G	H	J	K	L	M	N	Approximate Shipping Wt. lb (kg)
															Copper
150 (A4)	M14	4-39/64 (117)	3-33/64 (89)	6-5/16 (160)	7-1/4 (184)	1-3/8 (35)	2-5/32 (55)	8-31/32 (228)	4-1/6 (103)	15/16 (24)	2-9/16 (65)	2-1/2 (64)	1-53/64 (46)	1-3/8 (35)	15 (6)
250 (A6)	M10, M11, M14, M20, M21, M22, M23, M24	4-39/64 (117)	3-33/64 (89)	6-5/16 (160)	7-1/4 (184)	1-3/8 (35)	2-5/32 (55)	8-31/32 (228)	4-1/16 (103)	15/16 (24)	2-9/16 (65)	2-33/64 (64)	1-53/64 (46)	1-3/8 (35)	15 (6)
500 (A9)	M10, M11, M14, M20, M21, M23, M24	4-39/64 (117)	4-23/64 (111)	6-5/16 (160)	7-1/4 (184)	1-3/8 (35)	2-5/32 (55)	8-31/32 (228)	4-29/32 (125)	1-3/8 (35)	3 (76)	3-3/8 (86)	1-53/64 (46)	1-3/8 (35)	16 (7)



Dimensions are shown in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

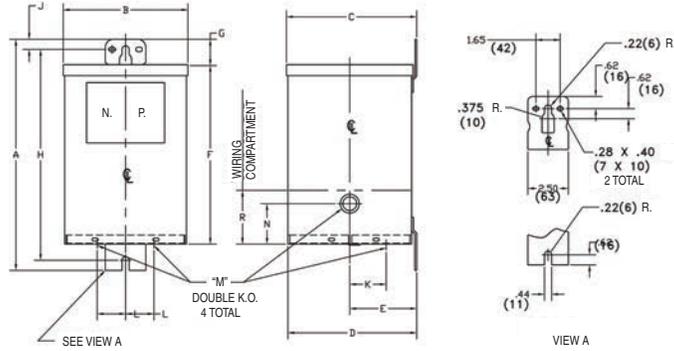


VA (Code)	Primary and Secondary Voltage	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Approximate Shipping Wt. lb (kg)
																Copper
500 (A9)	M22, M23	5- 47/64 (146)	5- 15/64 (133)	8-5/8 (219)	9-35/64 (243)	1-5/8 (41)	2- 47/64 (69)	11- 9/32 (287)	5-3/4 (146)	1-1/2 (38)	3-3/4 (95)	4-1/4 (108)	1-3/8 (35)	1- 53/64 (46)	7/8 (22)	24 (11)
750 (A10)	M11, M21	5- 47/64 (146)	5- 15/64 (133)	8-5/8 (219)	9-35/64 (243)	1-5/8 (41)	2- 47/64 (69)	11- 9/32 (287)	5-3/4 (146)	1-1/2 (38)	3-3/4 (95)	4-1/4 (108)	1-3/8 (35)	1- 53/64 (46)	7/8 (22)	24 (11)
750 (A10)	M10, M14, M20, M22, M23, M24	5- 47/64 (146)	5- 15/64 (133)	8-5/8 (219)	9-35/64 (243)	1-5/8 (41)	2- 47/64 (69)	11- 9/32 (287)	5-3/4 (146)	1-1/2 (38)	3-3/4 (95)	4-1/4 (108)	1-3/8 (35)	1- 53/64 (46)	7/8 (22)	36 (16)
* 1000 (A11)	M10, M11, M14, M20, M21, M24	5- 47/64 (146)	5- 15/64 (133)	8-5/8 (219)	9-35/64 (243)	1-5/8 (41)	2- 47/64 (69)	11- 9/32 (287)	5-3/4 (146)	1-1/2 (38)	3-3/4 (95)	4-1/4 (108)	1-3/8 (35)	1- 53/64 (46)	7/8 (22)	36 (16)
1000 (A11)	M22, M23	6-1/10 (155)	6 (152)	10-3/4 (273)	11-49/64 (299)	1-3/4 (44)	3 (76)	13- 13/32 (341)	6- 33/64 (166)	1-7/8 (48)	4-1/8 (105)	4- 53/64 (122)	1-3/8 (35)	1- 53/64 (46)	1 (25)	50 (23)
1500 (A12)	M10, M11, M14, M20, M21, M22, M24	6-1/10 (155)	6 (152)	10-3/4 (273)	11-49/64 (299)	1-3/4 (44)	3 (76)	13- 13/32 (341)	6- 33/64 (166)	1-7/8 (48)	4-1/8 (105)	4- 53/64 (122)	1-3/8 (35)	1- 53/64 (46)	1 (25)	50 (23)
2000 (A13)	M10, M11, M14, M20, M21, M24	6-1/10 (155)	6 (152)	10-3/4 (273)	11-49/64 (299)	1-3/4 (44)	3 (76)	13- 13/32 (341)	6- 33/64 (166)	1-7/8 (48)	4-1/8 (105)	4- 53/64 (122)	1-3/8 (35)	1- 53/64 (46)	1 (25)	50 (23)

* 1" and 1-1/2" knock-outs (two total)

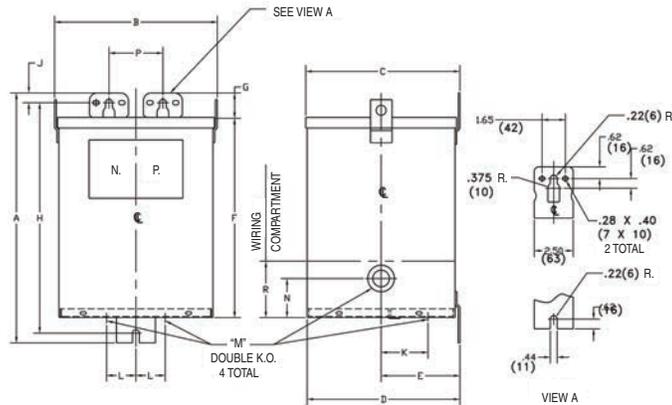
Bulletin 1497D
General Purpose Transformers
Approximate Dimensions

Dimensions are shown in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.



VA (Code)	Primary and Secondary Voltage	A	B	C	D	E	F	G	H	J	K	L	M	N	R	Approximate Shipping Wt. lb (kg)
‡ 2000 (A13)	M22	14-1/4 (362)	7-11/16 (195)	8 (203)	7-15/16 (202)	4-1/6 (103)	11-1/16 (281)	1-5/8 (41)	13 (330)	5/8 (16)	2-1/4 (57)	1-3/4 (44)	1/2, 3/4 (13, 19)	2-1/2 (64)	3-21/64 (84)	69 (31)
* 3000 (A14)	M10, M11, M20, M21, M24	14-1/4 (362)	7-11/16 (195)	8 (203)	7-15/16 (202)	4-1/6 (103)	11-1/16 (281)	1-5/8 (41)	13 (330)	5/8 (16)	2-1/4 (57)	1-3/4 (44)	1/2, 3/4 (13, 19)	2-1/2 (64)	3-21/64 (84)	65 (30)

‡ Copper
 * Aluminum

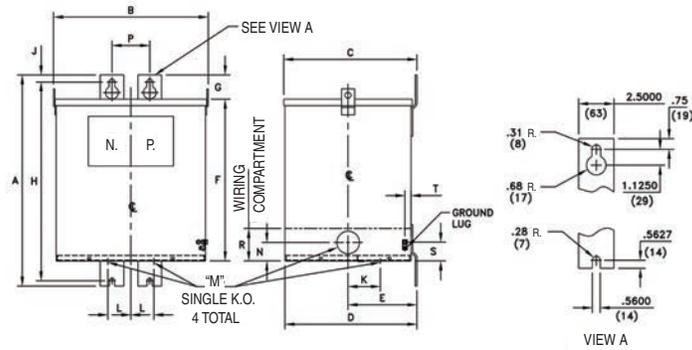


8

VA (Code)	Primary and Secondary Voltage	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	Approx. Shipping Wt. lb (kg)
3000 (A14)	M14, M22, M23	16 (406)	10-3/8 (264)	9-57/64 (251)	9-4/5 (249)	5-1/6 (129)	12-53/64 (326)	1-5/8 (41)	14-3/4 (375)	5/8 (16)	3 (76)	1-7/8 (48)	3/4, 1-1/4 (19, 32)	3/4, 1-1/4 (19, 32)	3-15/32 (88)	—	3-39/64 (92)	113 (51)
5000 (A15)	M10, M11, M20, M21, M24	16 (406)	10-3/8 (264)	9-57/64 (251)	9-4/5 (249)	5-1/6 (129)	12-53/64 (326)	1-5/8 (41)	14-3/4 (375)	5/8 (16)	3 (76)	1-7/8 (48)	3/4, 1-1/4 (19, 32)	3/4, 1-1/4 (19, 32)	3-15/32 (88)	—	3-39/64 (92)	113 (51)
5000 (A15)	M14, M22	16 (406)	10-3/8 (264)	9-57/64 (251)	9-4/5 (249)	5-1/6 (129)	12-53/64 (326)	1-5/8 (41)	14-3/4 (375)	5/8 (16)	3 (76)	1-7/8 (48)	3/4, 1-1/4 (19, 32)	2-1/2 (64)	3-15/32 (88)	—	3-39/64 (92)	123 (55)
7500 (A16)	M10, M11, M20, M21, M24	16 (406)	10-3/8 (264)	9-57/64 (251)	9-4/5 (249)	5-1/6 (129)	12-53/64 (326)	1-5/8 (41)	14-3/4 (375)	5/8 (16)	3 (76)	1-7/8 (48)	3/4, 1-1/4 (19, 32)	2-1/2 (64)	3-15/32 (88)	—	3-39/64 (92)	123 (55)
7500 (A16)	M14, M22	19 (483)	13-3/8 (340)	10-33/64 (267)	10-15/32 (266)	5-7/6 (138)	15-53/64 (402)	1-5/8 (41)	17-3/4 (451)	5/8 (16)	3-3/8 (86)	1-7/8 (48)	3/4, 1-1/4 (19, 32)	2-1/2 (64)	3-15/32 (88)	1, 1-1/2 (25, 38)	3-3/4 (95)	193 (87)
10000 (A17)	M10, M11, M20, M21, M24	19 (483)	13-3/8 (340)	10-33/64 (267)	10-15/32 (266)	5-7/6 (138)	15-53/64 (402)	1-5/8 (41)	17-3/4 (451)	5/8 (16)	3-3/8 (86)	1-7/8 (48)	3/4, 1-1/4 (19, 32)	2-1/2 (64)	3-15/32 (88)	1, 1-1/2 (25, 38)	3-3/4 (95)	193 (87)
10000 (A17)	M14, M22	19 (483)	13-3/8 (340)	10-33/64 (267)	10-15/32 (266)	5-7/6 (138)	15-53/64 (402)	1-5/8 (41)	17-3/4 (451)	5/8 (16)	3-3/8 (86)	1-7/8 (48)	3/4, 1-1/4 (19, 32)	2-1/2 (64)	3-15/32 (88)	1, 1-1/2 (25, 38)	3-3/4 (95)	216 (98)
15000 (A18)	M10, M11, M20, M21, M22	19 (483)	13-3/8 (340)	10-33/64 (267)	10-15/32 (266)	5-7/6 (138)	15-53/64 (402)	1-5/8 (41)	17-3/4 (451)	5/8 (16)	3-3/8 (86)	1-7/8 (48)	3/4, 1-1/4 (19, 32)	2-1/2 (64)	3-15/32 (88)	1, 1-1/2 (25, 38)	3-3/4 (95)	216 (98)

Dimensions are shown in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

Cat. No. 1491-R150
 Fuse Cover without Fuse



VA (Code)	Primary and Secondary Voltage	A	B	C	D	E	F	G	H	J	K	L
15000 (A18)	M14, M22	23-5/16 (592)	16-11/32 (415)	14- 1/8 (359)	14-1/16 (357)	7-25/64 (188)	18-1/16 (459)	2-19/32 (66)	22 (558)	3/4 (19)	3-7/16 (87)	2-7/16 (62)
25000 (A20)	M10, M11, M14, M20, M21, M22, M24	23-5/16 (592)	16-11/32 (415)	14- 1/8 (359)	14-1/16 (357)	7-25/64 (188)	18-1/16 (459)	2-19/32 (66)	22 (558)	3/4 (19)	3-7/16 (87)	2-7/16 (62)

VA (Code)	Primary and Secondary Voltage	M	N	P	R	S	T	Approximate Shipping Wt.
								lb (kg)
								Aluminum
15000 (A18)	M14, M22	2 (51)	2-7/16 (62)	4 (102)	4-7/16 (113)	2 (51)	21/32 (17)	375 (170)
25000 (A20)	M10, M11, M14, M20, M21, M22, M24	2 (51)	2-7/16 (62)	4 (102)	4-7/16 (113)	2 (51)	21/32 (17)	375 (170)

General Purpose Transformers Accessories

Product Selection

Fuse Block Kits — For Use when Fuse Block is Not Integrated with the Transformer



Cat. No. 1491-R165
1-Pole Fuse Block



Cat. No. 1491-R167
2-Pole Fuse Block



Cat. No. 1491-R171
3-Pole Fuse Block



Cat. No. 1491-R169
3-Pole Fuse Block



Cat. No. 1491-R150
Fuse Cover without Fuse

8

These control circuit fusing kits are intended to be used for control circuit transformer protection and protection of control circuits capable of delivering no more than 200 000 RMS symmetrical amps, 600V maximum.

Description*	Cat. No.
Fuse cover — per pole	1491-R150
One-pole kit — panel-mounted (midget fuse)*	1491-R165
Two-pole kit — panel-mounted (two Class CC fuses)*	1491-R162
Two-pole kit — panel-mounted (two midget fuses)*	1491-R167
Three-pole kit — panel-mounted (one midget fuse/two Class CC fuses)*	1491-R169
Three-pole kit — panel-mounted (three Class CC fuses)*	1491-R171
Single-pole kit — Bulletin 500 line controller mounted (Class CC fuses)‡	599-FR04
One-pole kit — panel-mounted (31...60 A Class J fuse)	1491-R173
One-pole kit — panel-mounted (61...100 A Class J fuse)	1491-R175

* For control circuit transformers with a 350VA or larger rating, it is recommended that Bussmann Type FNQ-R, Ferraz-Shawmut Type ATDR, Littelfuse Type KLDR time delay fuses, or equivalent be used for primary fusing.

* These kits use only Class CC or Midget fuses (rated 0.5...30 A) such as those offered by the following manufacturers:

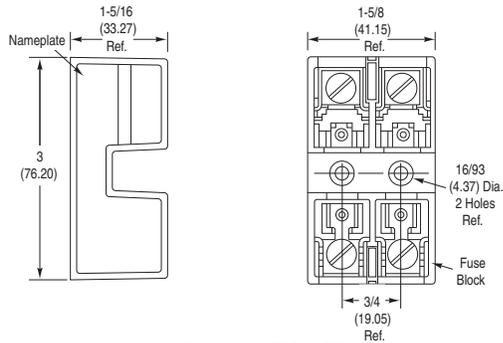
- Bussmann KTK-R
- Ferraz-Shawmut ATM R
- Littelfuse KLK

‡ Cat. No. 599-FR04 is rated for 6 A fuse maximum. Controller mounting applies to size 0...5 devices only.

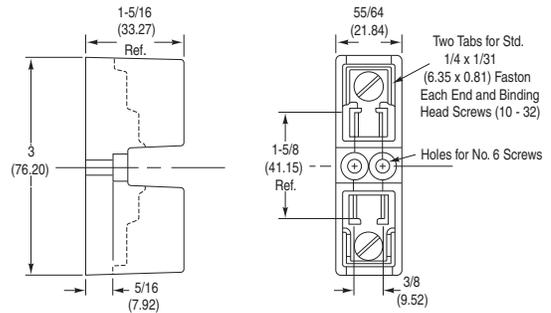


Dimensions are shown in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

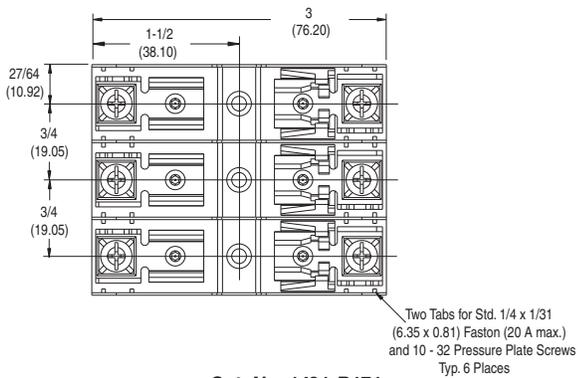
Note: Electrical clearance required to top of fuse block.



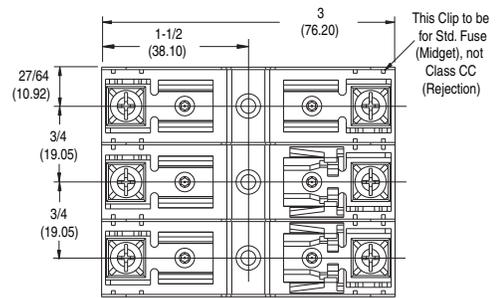
Cat. No. 1491-R162
Cat. No. 1491-R167



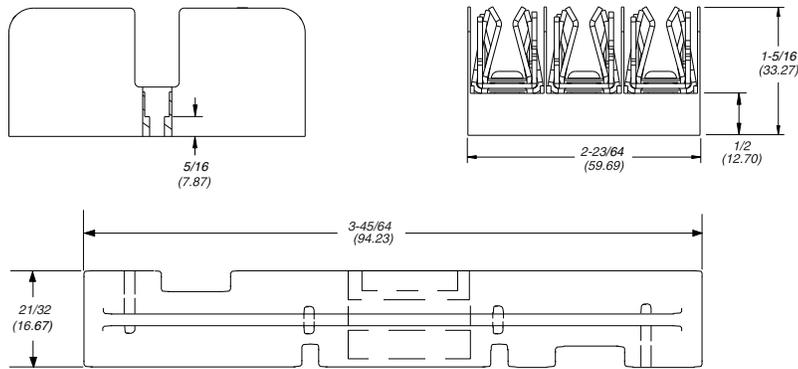
Cat. No. 1491-R165



Cat. No. 1491-R171



Cat. No. 1491-R169



Cat. No. 1491-R150

