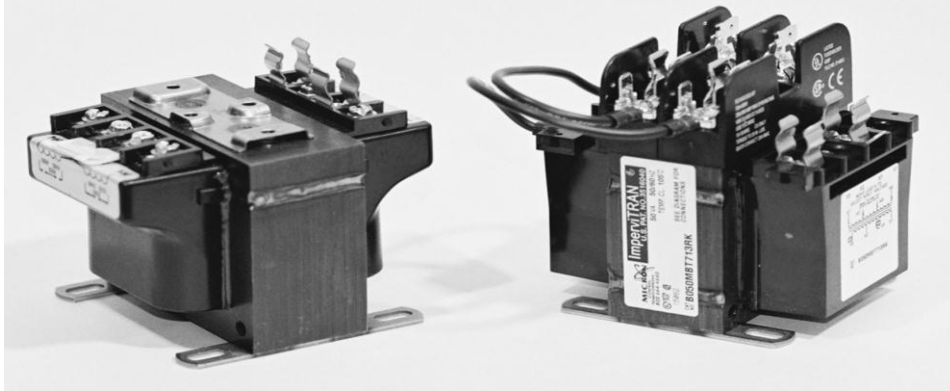


IMPERVITRAN



SIMPLY – THE MOST VERSATILE AVAILABLE

ImperviTRAN's feature-laden Series 2 design. Developed to address **ALL** customer needs with a product designed in a highly efficient manner. ImperviTRAN designs span over 35 years of market leadership.

UL/CSA or C-UL Family Listing

- Absolute flexibility of design for 600 volt class product

Fully encapsulated coil

- Tough environment-proof construction
- Eases wire routing around the transformer

Fusion-welded coil terminations instead of solder joints

- Eliminates cold solder joint breakage, improves conductivity
- Provides a lead-free RoHS compliant construction

Face-on terminal labels with large schematic indicators

- Terminal designations clearly visible to the installer and technician
- Indicators aligned with terminal screws for clarity

SEMS screw terminal strips as an integral part of the coil bobbin

- Allows bare wire and terminal connection methods
- Easily adaptable to slot, Phillips and hex driver tools
- Robust physical support instead of "floating" terminal strips

Integral accessory mounting plate on transformer top

- Allows field modification to block-style primary fusing
- Reduces SKU count for fused/non-fused applications
- Provides mounting platform for additional items (DIN Rail)

Standard strap brackets or optional mounting plate

- Features a superior weld result for vibration-resistant stability
- Offers common mounting template across a wide range of voltages
- Alternate plates available for OEM volumes

IP-20 cover kits available

- Quickly convertible to an IP-20 safety level

CONTROL TRANSFORMERS

GENERAL SPECIFICATIONS:

STYLE: SERIES 2 IMPERVITRAN
 APPROVALS: UL/Cul FILE# E46323
 TEMP CLASS: 105°C/130°C
 VA SIZES: 50-1500

STYLE: IMPERVITRAN (NOT SERIES 2)

APPROVALS: UL LISTED FILE# E46323/ CSA APPROVED FILE# LR27533
 TEMP CLASS: 105°C/130°C/180°C
 VA SIZES: 1000-5000

SUFFIX DESCRIPTION:

"K" IN SUFFIX DENOTES INSTALLED SECONDARY FUSE CLIPS
 "R" IN SUFFIX DENOTES INSTALLED CLASS "CC" PRIMARY FUSE BLOCK
 TWO LETTER SUFFIX = TEMP CLASS 105C
 THREE LETTER SUFFIX ENDING "F" = TEMP CLASS 130C
 THREE LETTER SUFFIX ENDING "H" = TEMP CLASS 180C

**TERMINAL TORQUE:
 ALL IMPERVITRAN PRODUCT**

≤30A: 20 INCH-POUNDS
 >30A: 30 INCH-POUNDS

CATALOG NUMBER GROUP "A"	VOLTAGE: PRI: 220x440, 230x460, 240x480 SEC: 110/115/120	
	VA	AMPS
B050BTZ13JK	50	0.43
B050BTZ13RB		
B075BTZ13JK	75	0.65
B075BTZ13RB		
B100BTZ13JK	100	0.87
B100BTZ13RB		
B150BTZ13JKF	150	1.30
B150BTZ13RBF		
B200BTZ13JKF	200	1.74
B200BTZ13RBF		
B250BTZ13JKF	250	2.17
B250BTZ13RBF		
B300BTZ13JKF	300	2.61
B300BTZ13RBF		
B350BTZ13JKF	350	3.04
B350BTZ13RBF		
B500BTZ13JKF	500	4.35
B500BTZ13RBF		
B750BTZ13JKF	750	6.52
B750BTZ13RBF		
B1K0BTZ13JKF	1000	8.70
B1K0BTZ13RBF		
B1K5BTZ13JKF	1500	13.04
B1K5BTZ13RBF		
B2K0BTZ13JKH	2000	17.39
B2K0BTZ13RBH		
B3K0BTZ13JXH	3000	26.09
B5K0BTZ13JXH	5000	43.48

CATALOG NUMBER GROUP "C"	VOLTAGE: PRI: 120x240 SEC: 24	
	VA	AMPS
B050LP7JK	50	2.08
B050LP7RB		
B075LP7JK	75	3.13
B075LP7RB		
B100LP7JK	100	4.17
B100LP7RB		
B150LP7JKF	150	6.25
B150LP7RBF		
B200LP7JKF	200	8.33
B200LP7RBF		
B250LP7JKF	250	10.42
B250LP7RBF		
B300LP7JKF	300	12.50
B300LP7RBF		
B350LP7JKF	350	14.58
B350LP7RBF		
B500LP7JKF	500	20.83
B500LP7RBF		
B750LP7JKF	750	31.25
B750LP7RBF		

CATALOG NUMBER GROUP "F"	VOLTAGE: PRI: 208/277 SEC: 120	
	VA	AMPS
B050MQ15XK	50	0.42
B050MQ15RK		
B075MQ15XK	75	0.63
B075MQ15RK		
B100MQ15XK	100	0.83
B100MQ15RK		
B150MQ15XKF	150	1.25
B150MQ15RKF		
B200MQ15XKF	200	1.67
B200MQ15RKF		
B250MQ15XKF	250	2.08
B250MQ15RKF		
B300MQ15XKF	300	2.50
B300MQ15RKF		
B350MQ15XKF	350	2.92
B350MQ15RKF		
B500MQ15XKF	500	4.17
B500MQ15RKF		
B750MQ15XKF	750	6.25
B750MQ15RKF		

GROUP "G"		
VOLTAGE: PRI: 208/230/460 SEC: 115		
	VA	AMPS
B050MBT13XK	50	0.43
B050MBT13RK		
B075MBT13XK	75	0.65
B075MBT13RK		
B100MBT13XK	100	0.87
B100MBT13RK		
B150MBT13XKF	150	1.30
B150MBT13RKF		
B200MBT13XKF	200	1.74
B200MBT13RKF		
B250MBT13XKF	250	2.17
B250MBT13RKF		
B300MBT13XKF	300	2.61
B300MBT13RKF		
B350MBT13XKF	350	3.04
B350MBT13RKF		
B500MBT13XKF	500	4.35
B500MBT13RKF		
B750MBT13XKF	750	6.52
B750MBT13RKF		
B1K0MBT13XKF	1000	8.70
B1K0MBT13RKF		
B1K5MBT13XKF	1500	13.04
B1K5MBT13RKF		
B2K0MBT13XKH	2000	17.39
B2K0MBT13RKH		
B3K0MBT13XXH	3000	26.09
B5K0MBT13XXH	5000	43.48

GROUP "B"		
VOLTAGE: PRI: 240x480 SEC: 24		
	VA	AMPS
B050PU7JK	50	2.08
B050PU7RB		
B075PU7JK	75	3.13
B075PU7RB		
B100PU7JK	100	4.17
B100PU7RB		
B150PU7JKF	150	6.25
B150PU7RBF		
B200PU7JKF	200	8.33
B200PU7RBF		
B250PU7JKF	250	10.42
B250PU7RBF		
B300PU7JKF	300	12.50
B300PU7RBF		
B350PU7JKF	350	14.58
B350PU7RBF		
B500PU7JKF	500	20.83
B500PU7RBF		
B750PU7JKF	750	31.25
B750PU7RBF		

GROUP "E"		
VOLTAGE: PRI: 550/575/600 SEC: 110/115/120		
	VA	AMPS
B050WZ13XK	50	0.43
B050WZ13RK		
B075WZ13XK	75	0.65
B075WZ13RK		
B100WZ13XK	100	0.87
B100WZ13RK		
B150WZ13XKF	150	1.30
B150WZ13RKF		
B200WZ13XKF	200	1.74
B200WZ13RKF		
B250WZ13XKF	250	2.17
B250WZ13RKF		
B300WZ13XKF	300	2.61
B300WZ13RKF		
B350WZ13XKF	350	3.04
B350WZ13RKF		
B500WZ13XKF	500	4.35
B500WZ13RKF		
B750WZ13XKF	750	6.52
B750WZ13RKF		

STYLE: SERIES 2 IMPERVITRAN

CONTROL TRANSFORMERS
STYLE: IMPERVITRAN (NOT SERIES 2)

CATALOG NUMBER GROUP "H"	VOLTAGE:	
	PRI: 230/460/575	
	SEC: 95/115	
	VA	AMPS
B050BTW37XX	50	0.53/0.44
B050BTW37RX		
B075BTW37XX	75	0.79/0.65
B075BTW37RX		
B100BTW37XX	100	1.05/0.87
B100BTW37RX		
B150BTW37XXF	150	1.58/1.30
B150BTW37RXF		
B200BTW37XXF	200	2.11/1.74
B200BTW37RXF		
B250BTW37XXF	250	2.63/2.17
B250BTW37RXF		
B300BTW37XXF	300	3.16/2.61
B300BTW37RXF		
B350BTW37XXF	350	3.68/3.04
B350BTW37RXF		
B500BTW37XXF	500	5.26/4.35
B500BTW37RXF		
B750BTW37XXF	750	7.89/6.52
B750BTW37RXF		
B1K0BTWZ37XKH	1000	10.53/8/70
B1K0BTWZ37RKH		
B1K5BTWZ37XKH	1500	15.79/13.04
B1K5BTWZ37RKH		
B2K0BTWZ37XKH	2000	21.05/17.39
B2K0BTWZ37RKH		
B3K0BTWZ37XXH	3000	31.58/26.09
B5K0BTWZ37XXH	5000	52.63/43.48

CATALOG NUMBER GROUP "J"	VOLTAGE:	
	PRI: 208/230/460	
	SEC: 24/115	
	VA	AMPS
B050-2000-1	50	2.08/0.44
B050-2000-8		
B075-2001-1	75	3.13/0.65
B075-2001-8		
B100-2002-1	100	4.17/0.87
B100-2002-8		
B150-2003-1F	150	6.25/1.30
B150-2003-8F		
B200-2004-1F	200	8.33/1.74
B200-2004-8F		
B250-2005-1F	250	10.42/2.17
B250-2005-8F		
B300-2006-1F	300	12.50/2.61
B300-2006-8F		
B350-2007-1F	350	14.58/3.04
B350-2007-8F		
B500-2008-1F	500	20.84/4.35
B500-2008-8F		
B750-2009-1F	750	31.3/6.5
B750-2009-8F		
B1K0-2010-1F	1000	41.7/8.7
B1K0-2010-8F		

CATALOG NUMBER GROUP "K"	VOLTAGE:	
	PRI: 240x480	
	SEC: 120x240	
	VA	AMPS
B050PU1519JJ	50	0.42/0.21
B050PU1519RR		
B075PU1519JJ	75	0.63/0.31
B075PU1519RR		
B100PU1519JJ	100	0.83/0.42
B100PU1519RR		
B150PU1519JJF	150	1.25/0.63
B150PU1519RRF		
B200PU1519JJF	200	1.67/0.83
B200PU1519RRF		
B250PU1519JJF	250	2.08/1.04
B250PU1519RRF		
B300PU1519JJF	300	2.50/1.25
B300PU1519RRF		
B350PU1519JJF	350	2.92/1.46
B350PU1519RRF		
B500PU1519JJF	500	4.17/2.08
B500PU1519RRF		
B750PU1519JJF	750	6.25/3.12
B750PU1519RRF		

GROUP "I"
VOLTAGE:
 PRI: 380/400/415
 SEC: 110x220

	VA	AMPS
B050RFD34XJ	50	0.46/0.23
B050RFD34RJ		
B075RFD34XJ	75	0.68/0.34
B075RFD34RJ		
B100RFD34XJ	100	0.91/0.46
B100RFD34RJ		
B150RFD34XJF	150	1.37/0.69
B150RFD34RJF		
B200RFD34XJF	200	1.82/0.91
B200RFD34RJF		
B250RFD34XJF	250	2.28/1.14
B250RFD34RJF		
B300RFD34XJF	300	2.72/1.36
B300RFD34RJF		
B350RFD34XJF	350	3.18/1.59
B350RFD34RJF		
B500RFD34XJF	500	4.55/2.27
B500RFD34RJF		
B750RFD34XJF	750	6.82/3.41
B750RFD34RJF		

GROUP "J"
USE SERIES 2 GROUP "J" (ABOVE)
FOR NEW APPLICATIONS!

VOLTAGE:		
PRI: 208/230/460		
SEC: 24/115		
	VA	AMPS
B050MBT713XK	50	2.08/0.44
B050MBT713RK		
B075MBT713XK	75	3.13/0.65
B075MBT713RK		
B100MBT713XK	100	4.17/0.87
B100MBT713RK		
B150MBT713XKF	150	6.25/1.30
B150MBT713RKF		
B200MBT713XKF	200	8.33/1.74
B200MBT713RKF		
B250MBT713XKF	250	10.42/2.17
B250MBT713RKF		
B300MBT713XKF	300	12.50/2.61
B300MBT713RKF		
B350MBT713XKF	350	14.58/3.04
B350MBT713RKF		
B500MBT713XKF	500	20.84/4.35
B500MBT713RKF		

CONTROL TRANSFORMERS
STYLE: IMPERVITRAN (NOT SERIES 2)
STYLE: SERIES 2 IMPERVITRAN

**CATALOG
NUMBER
GROUP "L"**

VOLTAGE:
PRI: 208-600
SEC: 85-130

	VA	AMPS
B050-0482-1	50	0.38
B050-0482-8		
B100-0483-1	100	0.77
B100-0483-8		
B150-0484-1F	150	1.15
B150-0484-8F		
B250-0485-1F	250	1.92
B250-0485-8F		
B350-0486-1F	350	2.69
B350-0486-8F		
B500-0487-1F	500	3.85
B500-0487-8F		
B750-0488-1F	750	5.77
B750-0488-8F		

GROUP "M"

VOLTAGE:
PRI: 240x480, 230x460, 220x440
SEC: 120x240, 115x230, 110x220

	VA	AMPS
B1K0-0500-3F	1000	8.70/4.35
B1K5-0501-3H	1500	13.04/6.52
B2K0-0502-3H	2000	17.39/8.70
B3K0-0503-3H	3000	26.09/13.04
B5K0-0504-3H	5000	43.48/21.74

GROUP "N"

VOLTAGE:
PRI: 240, 347, 380
SEC: 120x240

	VA	AMPS
B1K0-0321-3F	1000	8.33/4.17
B1K5-0322-3H	1500	12.50/6.25
B2K0-0323-3H	2000	16.67/8.33
B3K0-0324-3H	3000	25.00/12.50
B5K0-0325-3H	5000	41.67/20.83

GROUP "P"

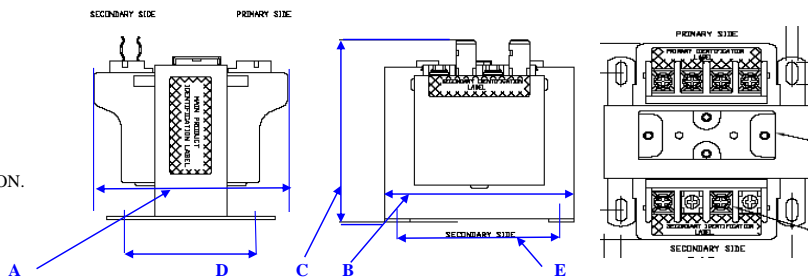
VOLTAGE:
PRI: 120x240
SEC: 120x240

	VA	AMPS
B050LP1519JJ	50	0.42/0.21
B100LP1519JJ	100	0.83/0.42
B150LP1519JF	150	1.25/0.63
B250LP1519JF	250	2.08/1.04
B350LP1519JF	350	2.92/1.46
B500LP1519JF	500	4.17/2.08
B750LP1519JF	750	6.25/3.12

DIMENSIONAL DATA

NOTE:
 SERIES 2 AND IMPERVITRAN
 TERMINAL BLOCK CAN HAVE
 4 OR 6 TERMINALS AS NOTED.

PRIMARY FUSE BLOCK ADDS
 1.375" (35MM) TO "C" DIMENSION.



(MATCHED DIMENSIONS)
 CATALOG GROUPS
 A, B, C, E, F, G*, H*, I, K, P
 VOLTAGE GROUPS

BTZ13, PU7, LP7, WZ13, MQ15,
 MBT13, BTW37, RFD34, PU1519,
 LP1519

NOTE: DIMENSION "C" IS A MAXIMUM DIMENSION. IF SECONDARY FUSE CLIPS ARE
 INCLUDED IN DESIGN, DEDUCT A MAXIMUM OF 0.50 (12.7MM) TO REMOVE.
ALWAYS REQUEST CURRENT FACTORY DRAWING FOR FINAL REFERENCE.

		DIMENSIONS INCHES/MM										APPROX WEIGHT LBS
		A		B		C		D		E		
VA		SERIES 2 (MAX)		ALL VERSIONS		MAXIMUM		CENTERS		IN	MM	
		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	
50	4-TERM	3.78	96	3.00	76	3.14	79	1.96	50	2.50	64	3.00
75	4-TERM	4.03	102	3.00	76	3.14	79	2.42	62	2.50	64	4.00
100	4-TERM	4.03	102	3.38	86	3.46	86	2.42	62	2.82	71	5.20
150	4-TERM	4.03	102	3.75	95	3.77	96	2.82	71	3.13	79	6.00
200	4-TERM	4.38	111	4.50	114	4.40	112	2.42	62	3.75	95	8.00
250	4-TERM	4.38	111	4.50	114	4.40	112	2.82	71	3.75	95	10.00
300	4-TERM	4.75	121	4.50	114	4.40	112	3.18	81	3.75	95	12.00
350	4-TERM	4.75	121	4.50	114	4.40	112	3.75	95	3.75	95	14.00
500	6-TERM	6.11	155	5.25	133	5.14	131	3.88	99	4.38	111	16.00
750	6-TERM	7.61	193	5.25	133	5.14	131	5.38	137	4.38	111	28.00

* GROUP "G" MATCHES IN 75, 150 & 250VA.

G

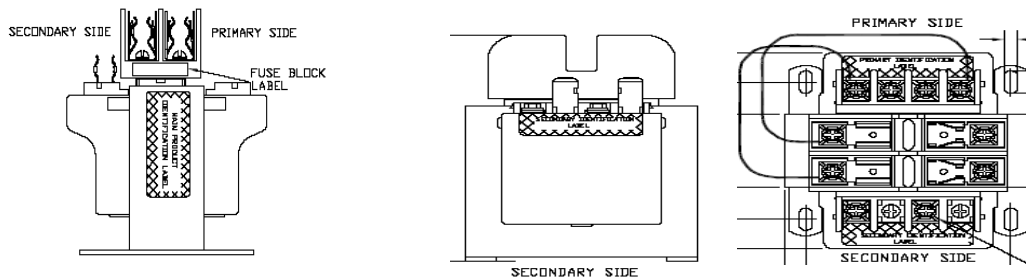
50	4-TERM	3.78	96	3.00	76	3.14	79	2.21	56	2.50	64	3.50
100	4-TERM	4.00	102	3.38	86	3.46	86	2.62	67	2.82	71	5.70
200	4-TERM	4.38	111	4.50	114	4.40	112	2.82	71	3.75	95	7.00
300	4-TERM	4.75	121	4.50	114	4.40	112	3.75	95	3.75	95	11.00
350	4-TERM	5.75	146	4.50	114	4.40	112	4.72	120	3.75	95	13.00
500	6-TERM	6.11	155	5.25	133	5.14	131	4.38	111	4.38	111	15.00
750	6-TERM	7.61	193	5.25	133	5.14	131	5.87	149	4.38	111	28.00

* GROUP "H" MATCHES IN 200, 250, 300 & 500VA

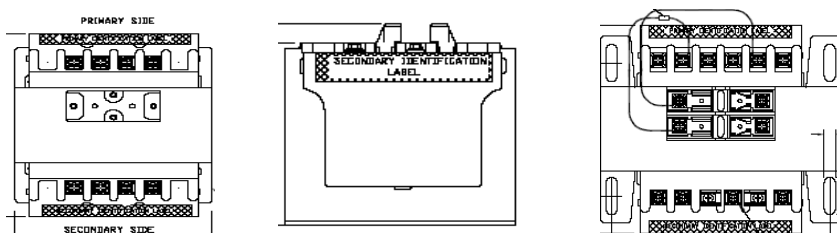
H

50	4-TERM	4.03	102	3.00	76	2.72	69	2.20	56	2.50	64	3.50
75	4-TERM	4.53	115	3.00	76	2.72	69	2.62	67	2.50	64	4.50
100	4-TERM	4.03	102	3.75	95	3.36	85	2.82	71	3.13	79	6.00
150	4-TERM	4.53	115	3.75	95	3.36	85	3.18	81	3.75	95	7.70
350	4-TERM	5.00	127	4.50	114	3.97	101	3.75	95	3.75	95	16.50
750	6-TERM	8.11	206	5.25	133	4.63	118	5.87	149	4.38	111	28.00

DIAGRAMS BELOW DEPICT INSTALLED PRIMARY FUSING OPTION.



DIAGRAMS DEPICT UNITS 500VA AND UP.



DIMENSIONAL DATA (KVA SIZES)

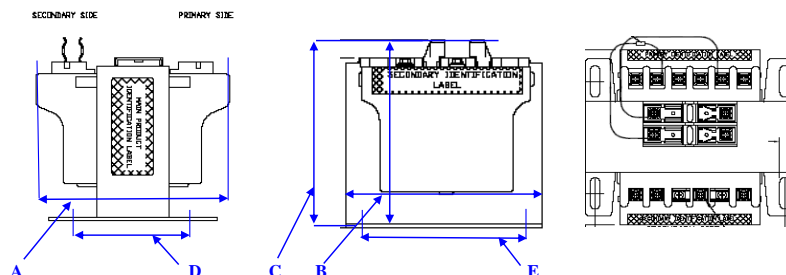
KVA SIZES CAN EITHER BE SERIES 2 OR IMPERVITRAN

DIAGRAMS DEPICT SERIES 2 DESIGN.

NOTE:

SERIES 2 AND IMPERVITRAN TERMINAL BLOCK CAN HAVE 4 OR 6 TERMINALS AS NOTED.

PRIMARY FUSE BLOCK ADDS 1.375" (35MM) TO "C" DIMENSION.



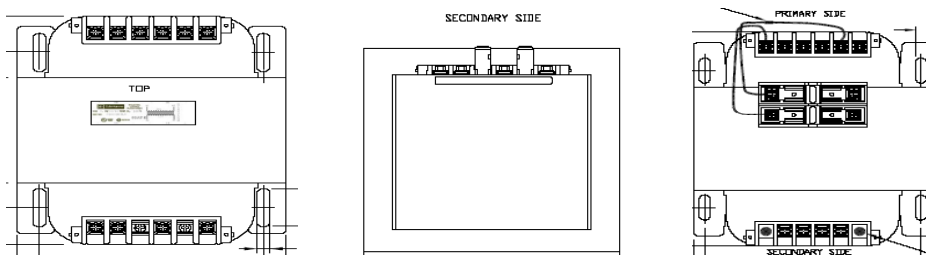
NOTE: DIMENSION "C" IS A MAXIMUM DIMENSION. IF SECONDARY FUSE CLIPS ARE INCLUDED IN DESIGN, DEDUCT A MAXIMUM OF 0.50 (12.7MM) TO REMOVE.

ALWAYS REQUEST CURRENT FACTORY DRAWING FOR FINAL REFERENCE.

DIMENSIONS INCHES/MM

CATALOG (VOLTAGE) GROUP		A		B		C		D		E		APPROX
A (BTZ13)		(MAX)				MAXIMUM		CENTERS				WEIGHT
VA		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	LBS
1000	6-TERM	6.11	155	6.75	172	6.30	160	3.91	99	6.13	156	30.50
1500	6-TERM	8.11	206	6.75	172	6.32	161	6.12	155	6.13	156	50.10
2000	6-TERM	7.75	197	6.75	172	6.28	160	4.97	126	6.13	156	46.00
3000	6-TERM	8.06	205	9.00	229	7.50	191	5.25	133	7.50	191	55.90
5000	6-TERM	10.38	264	9.00	229	7.50	191	7.56	192	7.50	191	84.40
G (MBT13)												
1000	6-TERM	7.44	189	6.38	162	5.42	138	5.06	129	5.31	135	37.00
1500	6-TERM	8.50	216	6.75	172	5.73	146	6.09	155	6.13	156	53.90
2000	6-TERM	8.13	207	6.75	172	5.75	146	5.25	133	6.13	156	42.00
3000	6-TERM	8.56	217	9.00	229	7.50	191	5.75	146	7.50	191	64.50
5000	6-TERM	10.00	254	9.00	229	7.50	191	7.56	192	7.50	191	97.00
H (BTWZ37)												
1000	6-TERM	7.00	178	6.38	162	5.42	138	5.06	129	5.31	135	31.80
1500	6-TERM	7.45	189	6.75	172	6.29	160	5.25	133	6.13	156	44.20
2000	6-TERM	7.56	192	9.00	229	7.80	198	4.81	122	7.50	191	57.70
3000	6-TERM	8.75	222	9.00	229	7.50	191	5.94	151	7.50	191	76.20
5000	6-TERM	11.00	279	9.00	229	7.50	191	8.19	208	7.50	191	127.40
M												
240/480 X 120/240												
1000	4-TERM	7.00	178	5.25	133	4.25	108	5.38	137	4.38	111	26.30
1500	6-TERM	7.00	178	6.75	172	5.75	146	4.25	108	6.13	156	31.00
2000	6-TERM	7.75	197	6.75	172	5.73	146	4.97	126	6.13	156	46.00
3000	6-TERM	8.06	205	9.00	229	7.50	191	5.25	133	7.50	191	56.00
5000	6-TERM	10.00	254	9.00	229	7.50	191	7.19	183	7.50	191	85.40
N												
240,347,380 X 120/240												
1000	6-TERM	7.38	187	6.38	162	5.44	138	5.06	129	5.31	135	29.00
1500	6-TERM	8.13	207	6.38	162	5.44	138	5.06	129	5.31	135	33.30
2000	6-TERM	8.88	226	6.75	172	5.75	146	6.13	156	6.13	156	50.00
3000	6-TERM	8.50	216	9.00	229	7.50	191	5.69	146	7.50	191	74.00
5000	6-TERM	10.38	264	9.00	229	7.50	191	7.56	192	7.50	191	110.00

DIAGRAMS DEPICT IMPERVITRAN DESIGN.

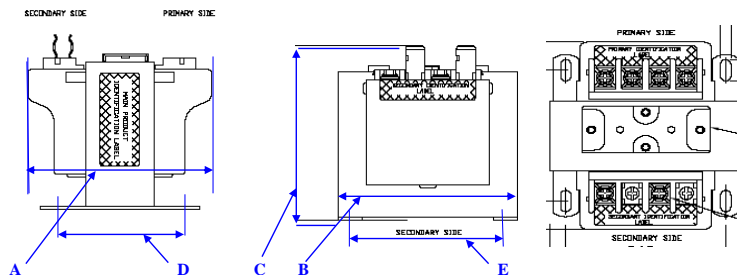


DIMENSIONAL DATA

NOTE:

SERIES 2 AND IMPERVITRAN
TERMINAL BLOCK CAN HAVE
4 OR 6 TERMINALS AS NOTED.

PRIMARY FUSE BLOCK ADDS
1.375" (35MM) TO "C" DIMENSION.



NOTE: DIMENSION "C" IS A MAXIMUM DIMENSION. IF SECONDARY FUSE CLIPS ARE INCLUDED IN DESIGN, DEDUCT A MAXIMUM OF 0.50 (12.7MM) TO REMOVE.
ALWAYS REQUEST CURRENT FACTORY DRAWING FOR FINAL REFERENCE.

**CATALOG (VOLTAGE) GROUP
OBSOLETE GROUP "J"**

ORIGINAL IMPERVITRAN

P/N	TERMS	DIMENSIONS INCHES/MM										
		A		B		C		D		E		APPROX WEIGHT LBS
SERIES 2 (MAX)		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	
B050MBT713XX	4-TERM	3.50	89	3.00	76	3.14	79	2.25	57	2.50	64	3.40
B075MBT713XX	4-TERM	3.50	89	3.38	86	3.44	87	2.44	62	2.82	71	4.80
B100MBT713XX	4-TERM	3.63	92	3.75	95	3.78	96	2.44	62	3.13	79	5.90
B150MBT713XXF	4-TERM	4.00	102	3.75	95	3.78	96	3.19	81	3.13	79	8.00
B200MBT713XXF	4-TERM	4.38	111	4.50	114	4.40	112	3.00	76	3.75	95	9.80
B250MBT713XXF	4-TERM	4.38	111	4.50	114	4.40	112	3.75	95	3.75	95	12.00
B300MBT713XXF	4-TERM	5.19	132	5.25	133	5.14	131	3.88	99	4.38	111	14.00
B350MBT713XXF	4-TERM	5.00	127	5.25	133	5.14	131	3.88	99	4.38	111	15.00
B500MBT713XXF	4-TERM	5.50	140	5.25	133	5.14	131	5.38	137	4.38	111	18.00

J

SERIES 2

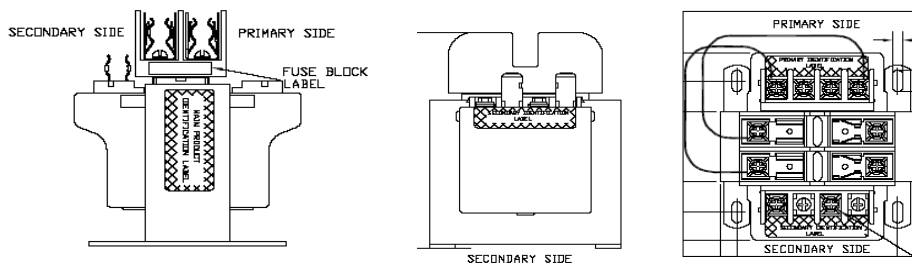
B050-2000-1	4-TERM	4.53	115	3.00	76	3.14	79	2.82	71	2.50	64	3.40
B075-2001-1	4-TERM	4.53	115	3.75	95	3.78	96	2.82	71	3.13	79	4.80
B100-2002-1	4-TERM	4.53	115	3.75	95	3.78	96	3.00	76	3.13	79	5.90
B150-2003-1F	4-TERM	5.03	128	3.75	95	3.78	96	3.19	81	3.13	79	8.00
B200-2004-1F	4-TERM	4.38	111	4.50	114	4.40	112	3.00	76	3.75	95	9.80
B250-2005-1F	4-TERM	4.75	121	4.50	114	4.40	112	3.75	95	3.75	95	12.00
B300-2006-1F	4-TERM	6.11	155	5.25	133	5.14	131	3.88	99	4.38	111	14.00
B350-2007-1F	6-TERM	6.11	155	5.25	133	5.14	131	3.88	99	4.38	111	15.00
B500-2008-1F	6-TERM	7.11	181	5.25	133	5.14	131	5.38	137	4.38	111	18.00
B750-2009-1F	6-TERM	7.11	181	6.75	172	6.30	160	4.97	126	6.13	156	38.60
B1K0-2010-1F	6-TERM	8.13	207	6.75	172	5.73	146	6.13	156	6.13	156	48.40

L

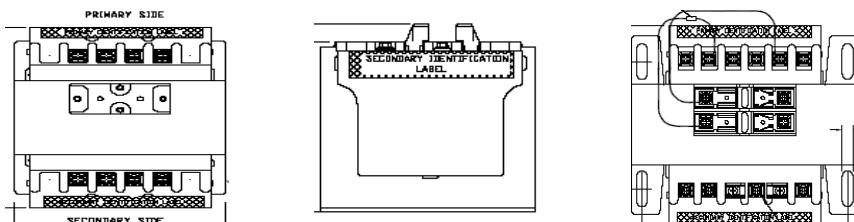
ORIGINAL IMPERVITRAN

B050-0482-1	6-TERM	3.44	87	3.88	99	3.38	86	2.41	61	2.81	71	4.00
B100-0483-1	6-TERM	4.00	102	3.75	95	3.50	89	3.00	76	3.13	79	6.60
B150-0484-1F	6-TERM	4.00	102	4.50	114	4.50	114	2.82	71	3.75	95	8.70
B250-0485-1F	6-TERM	5.75	146	4.50	114	4.50	114	4.38	111	3.75	95	11.40
B350-0486-1F	6-TERM	5.14	131	5.25	133	4.75	121	4.38	111	4.38	111	13.60
B500-0487-1F	6-TERM	7.19	183	5.14	131	4.75	121	5.88	149	4.38	111	17.40
B750-0488-1F	6-TERM	6.50	165	6.75	172	6.00	152	4.25	108	6.13	156	27.50

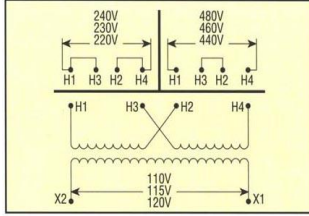
DIAGRAMS BELOW DEPICT INSTALLED PRIMARY FUSING OPTION.



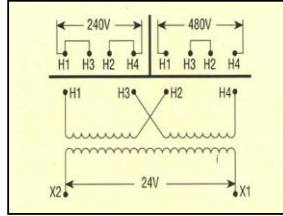
DIAGRAMS DEPICT UNITS 500VA AND UP.



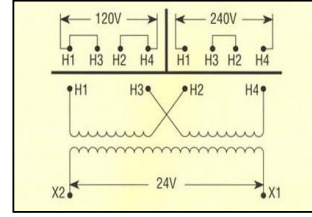
CONNECTION DIAGRAMS



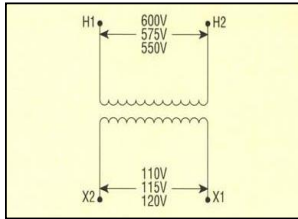
CONNECTION DIAGRAM:
GROUP "A"



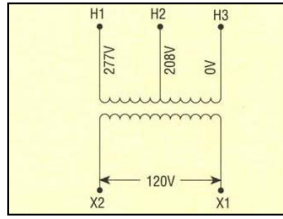
CONNECTION DIAGRAM:
GROUP "B"



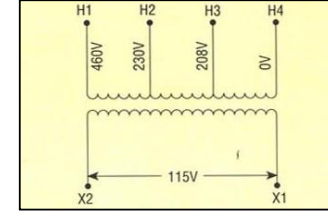
CONNECTION DIAGRAM:
GROUP "C"



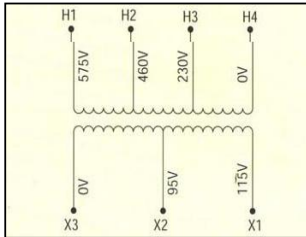
CONNECTION DIAGRAM:
GROUP "E"



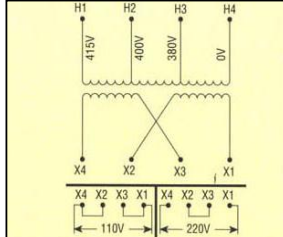
CONNECTION DIAGRAM:
GROUP "F"



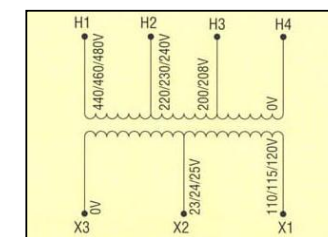
CONNECTION DIAGRAM:
GROUP "G"



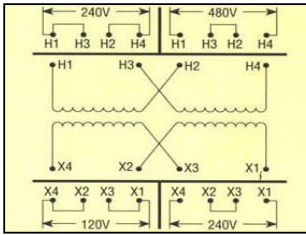
CONNECTION DIAGRAM:
GROUP "H"



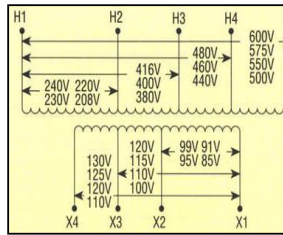
CONNECTION DIAGRAM:
GROUP "I"



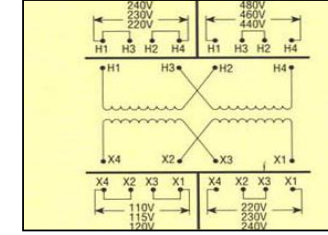
CONNECTION DIAGRAM:
GROUP "J"



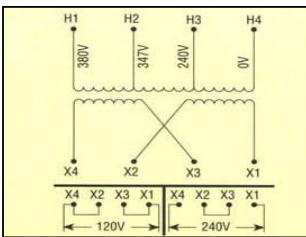
CONNECTION DIAGRAM:
GROUP "K"



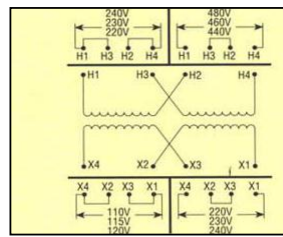
CONNECTION DIAGRAM:
GROUP "L"



CONNECTION DIAGRAM:
GROUP "M"



CONNECTION DIAGRAM:
GROUP "N"



CONNECTION DIAGRAM:
GROUP "P"

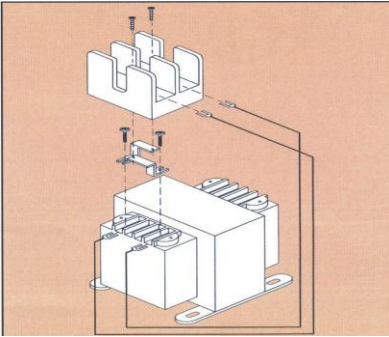
CONTROL TRANSFORMER ACCESSORIES

CATALOG NUMBER		APPROX. WEIGHT	
		LBS	KG
	IP-20 SAFETOUCH™ COVERS		
TPTC-2001	10PACK 4TERM.	1.0	0.5
TPTC-2002	10PACK 6TERM.	1.0	0.5
TPTC-2006	10PACK UNIVERSAL PRI BLOCK	1.0	0.5
FKTP-1001	PRIMARY CL "CC" FUSE KIT	0.25	0.1
	OPTIONAL FACTORY INSTALLED FUSE HOLDERS		
CL. "CC" PRI.	P/N SUFFIX = RB, RK, RX, RJ, RR RY, RG, RL, RN, RC, -8 *NON-REJECTION VERSION AVAILABLE ON ALL FACTORY INSTALLED PRIMARY	N/A	
	FUSEBLOCK OPTIONS		
1/4 X 1-1/4 SEC.	P/N SUFFIX = JQ, XQ	N/A	
9/16 X 2 SEC.	P/N SUFFIX = JM, XM	N/A	
	BULK FUSE CLIPS		
514-1661-01C	(2 NECESSARY) 13/32 X 1-1/2 (STD)	N/A	
514-1661-02C	(2 NECESSARY) 1/4 X 1-1/4 (OPT)	N/A	
	BULK JUMPERS		
514-1650	J-2	N/A	
514-1652	J-3	N/A	
514-1620-02	Flat	N/A	

TRANSFORMER ACCESSORY INTERCHANGE MATRIX

STANDARD SUFFIX		DUAL PRIMARY FUSED SUFFIX
JK, JKF, JKH	>>	RB, RBF, RBH
XK, XKF, XKH	>>	RK, RKF, RKH
XX, XXF, XXH	>>	RX, RXF, RXH
XJ, XJF, XJH	>>	RJ, RJF, RJH
JJ, JJF, JJH	>>	RR, RRF, RRH
JM, JMF, JM H	>>	RY, RYF, RYH
XM, JMF, JM H	>>	RG, RGF, RGH
JQ, JQF, JQH	>>	RL, RLF, RLH
XQ, XQF, XQH	>>	RN, RNF, RNH
JX, JXF, JXH	>>	RC, RCF, RCH
-1, -1F, -1H	>>	-8, -8F, -8H

PRIMARY FUSE KIT # FKTP-1001
SERIES 2 INSTRUCTIONS ON NEXT PAGE



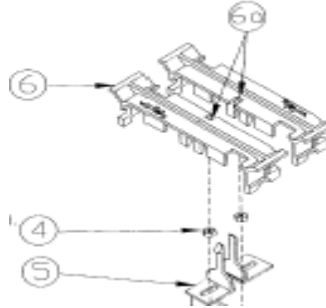
In addition to factory installed primary fusing capability Micron offers a primary fuse kit for ImperviTRAN and ValuTRAN intended for field installation. The primary fuse kit includes a 2-pole Class "CC" fuse block, instructions and all associated mounting hardware. Additionally, this fuse block will fit most competitive units. To order this kit, use catalog number **FKTP-1001**. The primary fuse kit, when installed, will add a maximum of 11/16" to the transformer "A" dimension and 1-15/16" to the "C" dimension. Installed as indicated.

1. Loosen two outer screws on primary side of transformer. On 6 position shell leave 2 spaces open between brackets.
2. Capture mounting brackets and necessary leads under terminal screws and tighten.

Recommended torque 30 in-lbs.

3. Affix fuse block to mounting bracket with supplied screws.

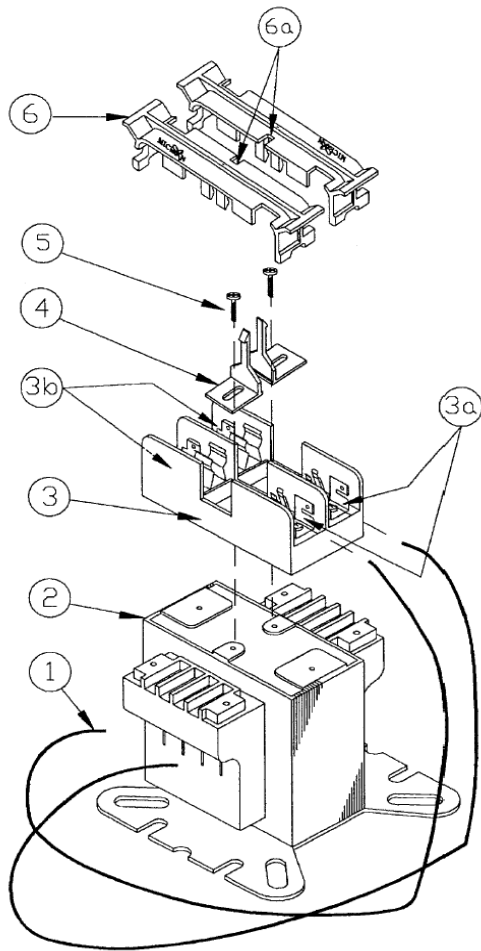
IP-20 COVER KIT # TPTC-2006



4. Remove two nuts or screws holding primary fuse block to transformer. On FKTP-1001 kits, perform step #5 prior to affixing block to brackets.
5. Install retaining clips in base of fuse block. Secure with nuts or screws as appropriate.
- 6, 6a. Install fuse in cover and snap cover in place. When installed cover cannot be removed without releasing tab from detent (6a). A tip of a pen will suffice.

GLOBALTRAN ACCESSORIES

A number of fusing accessories are available for the GlobalTRAN product line. Please contact Micron with your design requirements.



In addition to factory installed primary fusing capability Micron offers a primary fuse kit for units with integral accessory mounting plate (#2) intended for field installation on all catalog standard SERIES 2 units. The primary fuse kit includes a 2-pole Class "CC" fuse block, instructions and all associated mounting hardware. To order this kit, use catalog number **FKTP-1001**. The primary fuse kit, when installed, will add a maximum of 1-3/8" to the "C" dimension. (as measured from the top of the plate)

Installation instructions.

1. Connect one end of the 2 primary leads (#1) under the appropriate primary terminal screws. Secure screws to 16 in-lbs <500VA and 30 in-lbs 500VA and larger.
2. Insert locking clips (#4) oriented as shown into the fuse block (#3) pockets. **Use caution in choosing screw length if locking clips are not used.**
3. Attach clips and fuse block to accessory mounting plate (#2) using screws (#5). Recommended torque 16 in-lbs.
4. Insert fuses (not supplied) into fuse block followed by fuse block covers (#6) (IF ORDERED) with lock slots (#6a) matching tip of the clips, as shown. Press down until cover locks. **Refer to primary fuse chart for recommended fuses. Cover cannot be removed without releasing tab from detent (#6a). A tip of a pen will suffice.**
5. Connect the other end of the 2 primary leads (#1) under the screws on each of the 2 poles on the fuse block (#3a) and secure to 20 inch-pounds.
6. Apply primary voltage to the opposite end of the fuse block (#3b).

Additionally the mounting plate (#2) can be utilized to mount other accessories such as DIN rail. **Use caution in choosing screw length.**

SECONDARY AND PRIMARY OVERCURRENT PROTECTION

Secondary Voltage	VA RATING															
	25	50	75	100	150	200	250	300	350	500	750	1000	1500	2000	3000	5000
12	3-2/10	6-1/4	10	12	15	20	25	30	--	--	--	--	--	--	--	--
23	1-8/10	3-1/2	5	7	10	12	15	17-1/2	20	30	--	--	--	--	--	--
24	1-6/10	3-2/10	5	6-1/4	10	12	15	17-1/2	20	30	--	--	--	--	--	--
25	1-6/10	3-2/10	5	6-1/4	10	12	15	15	17-1/2	25	--	--	--	--	--	--
90	4/10	8/10	1-1/4	1-8/10	2-1/2	3-1/2	4-1/2	5	6-1/4	9	12	15	20	25	--	--
95	4/10	8/10	1-1/4	1-6/10	2-1/2	3-1/2	4	5	6	8	12	15	17-1/2	25	--	--
100	4/10	8/10	1-1/4	1-6/10	2-1/2	3-2/10	4	5	5-6/10	8	12	15	17-1/2	25	--	--
110	3/10	3/4	1-1/8	1-1/2	2-1/4	3	3-1/2	4-1/2	5	7-1/2	10	12	17-1/2	25	--	--
115	3/10	6/10	1	1-4/10	2	2-8/10	3-1/2	4	5	7	10	12	17-1/2	25	--	--
120	3/10	6/10	1	1-1/4	2	2-1/2	3-2/10	4	4-1/2	6-1/4	10	12	17-1/2	25		
220	3/16	3/10	1/2	3/4	1-1/8	1-1/2	1-8/10	2-1/4	2-1/2	3-1/2	5-6/10	7-1/2	10	12	17-1/2	30
230	15/100	3/10	1/2	6/10	1	1-4/10	1-8/10	2	2-1/2	3-1/2	5	7	10	12	17-1/2	30
240	15/100	3/10	1/2	6/10	1	1-4/10	1-6/10	2	2-1/4	3-2/10	5	6-1/4	10	12	17-1/2	30

Primary Voltage	VA RATING															
	25	50	75	100	150	200	250	300	350	500	750	1000	1500	2000	3000	5000
115	1/2	1	1-6/10	2	3-2/10	4	5	6-1/4	7-1/2	10	15	20	30	--	--	--
120	1/2	1	1-1/2	2	3	4	5	6-1/4	7	10	15	20	30	--	--	--
200	3/10	6/10	8/10	1-1/4	1-8/10	2-1/2	3	3-1/2	4	6-1/4	9	12	17-1/2	25	--	--
208	3/10	6/10	8/10	1-1/8	1-8/10	2-1/4	3	3-1/2	4	6	9	12	17-1/2	20	--	--
220	1/4	1/2	8/10	1-1/8	1-6/10	2-1/4	2-8/10	3-2/10	3-1/2	5-6/10	8	10	15	20	30	--
230	1/4	1/2	8/10	1	1-6/10	2	2-1/2	3-2/10	3-1/2	5	8	10	15	20	30	--
240	1/4	1/2	3/4	1	1-1/2	2	2-1/2	3	3-1/2	5	7-1/2	10	15	20	30	--
277	2/10	4/10	6/10	8/10	1-1/4	1-8/10	2-1/4	2-1/2	3	4-1/2	6-1/4	9	12	17-1/2	25	--
380	15/100	3/10	4/10	6/10	8/10	1-1/4	1-6/10	1-8/10	2-1/4	3-2/10	4-1/2	6-1/4	9	12	17-1/2	30
400	15/100	3/10	4/10	6/10	8/10	1-1/4	1-1/2	1-8/10	2	3	4-1/2	6-1/4	9	12	17-1/2	30
415	15/100	3/10	4/10	6/10	8/10	1-1/8	1-1/2	1-8/10	2	3	4-1/2	6	9	12	17-1/2	30
440	1/8	1/4	4/10	1/2	8/10	1-1/8	1-4/10	1-6/10	1-8/10	2-8/10	4	5-6/10	8	10	15	25
460	1/8	1/4	4/10	1/2	8/10	1	1-1/4	1-6/10	1-8/10	2-1/2	4	5	8	10	15	25
480	1/8	1/4	3/10	1/2	3/4	1	1-1/4	1-1/2	1-8/10	2-1/2	3-1/2	5	7-1/2	10	15	25
550	1/10	2/10	3/10	4/10	6/10	8/10	1-1/8	1-1/4	1-1/2	2-1/4	3-2/10	4-1/2	6-1/4	9	12	20
575	1/10	2/10	3/10	4/10	6/10	8/10	1	1-1/4	1-1/2	2	3-2/10	4	6-1/4	8	12	20
600	1/10	2/10	3/10	4/10	6/10	8/10	1	1-1/4	1-4/10	2	3	4	6-1/4	8	12	20

- If the rated secondary current is less than 9 amps, the secondary rating of overcurrent protection is 167% maximum of rated secondary current.
- If the rated secondary current is 9 amps or greater, the secondary rating of overcurrent protection is 125% maximum of rated secondary current.
- Primary rating of overcurrent protection is 250% maximum of rated primary current when secondary is protected by overcurrent protection.

Reference: NEC 450.3(B)

Rev 9/3/10