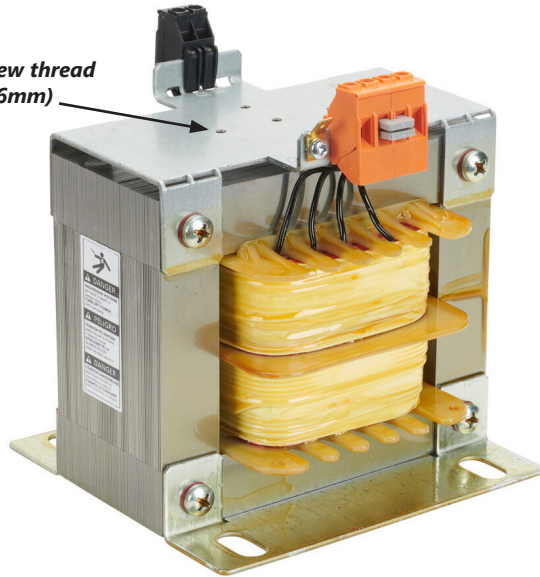


# BLOCK CT Series Control Power Transformers

M4 screw thread  
(M4x16mm)



**CT-075-048-12-0**



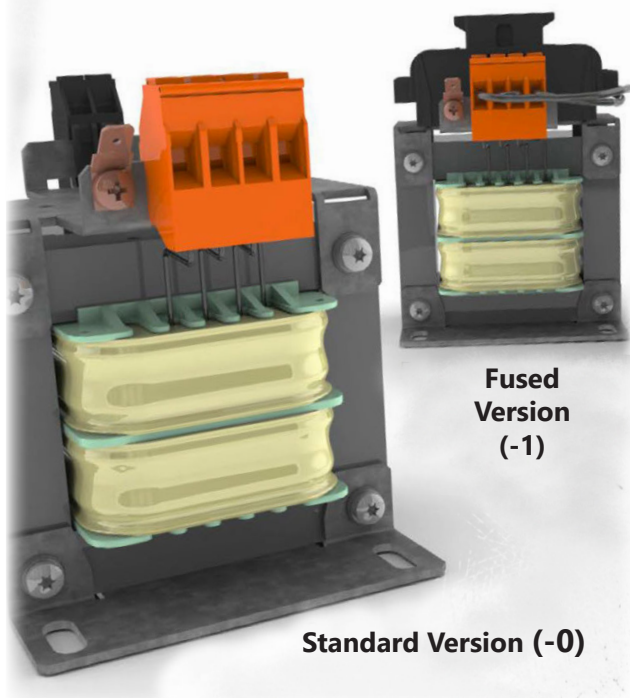
**CT-075-048-12-1**

## Control power transformers for a variety of applications

BLOCK's new CT series of control power transformers is the perfect choice for general purpose and industrial applications. Primarily engineered for isolation, lighting or signal systems, the CT series provides an economical and efficient solution under regular and even under abnormal conditions. With a robust design, these transformers ensure continuous supply of power for your control circuits.

## Features

- 50 to 2500VA
- Input voltage 240x480 VAC or 600VAC, 50-60 Hz
- Ambient temperature 104°F Insulation Class B (266°F)
- Fused versions available (on select units)
- Jumpers included for primary voltage selection (on select units)
- Approvals UL 5085-1/-2, CSA 22.2, IEC 61558-1, IEC 61558-21
- XPTQ2.E103521 - Transformers, General Purpose, Display as Type/Model EI



**Fused Version (-1)**

**Standard Version (-0)**

**INSULATION CLASS**  
B (266°F)

**INPUT VOLTAGE**  
240x480 VAC  
or 600VAC

**POWER**  
50 to 2500 VA

**AMBIENT TEMPERATURE**  
104°F

**APPROVALS**  
UL 5085-1/-2  
CSA 22.2  
IEC 61558-1 IEC  
61558-21

**FREQUENCY**  
50-60 HZ

# BLOCK CT Series Control Power Transformers

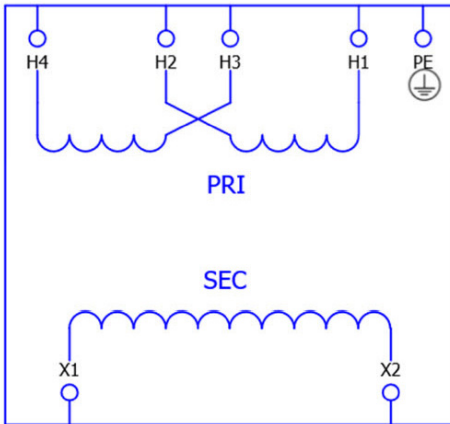
BLOCK Control Transformers Selection Guide									
Part Number	Price	Volt-Amp Rating	Primary Voltage (VAC)(50/60Hz)	Secondary Voltage (VAC) (Nominal)	Output Current (A)	Impedance %	Total Heat Dissipation (W)	Weight lb [kg]	Drawing
<a href="#">CT-005-048-12-0</a>	\$62.00	50	240x480	120	0.42	12.7	11	2.2	<a href="#">PDF</a>
<a href="#">CT-005-048-24-0</a>	\$62.00			24	2.08	12.7	11		<a href="#">PDF</a>
<a href="#">CT-005-060-12-0</a>	\$53.00		600	120	0.42	12.1	11.1		<a href="#">PDF</a>
<a href="#">CT-005-060-24-0</a>	\$53.00			24	2.08	12.1	11		<a href="#">PDF</a>
<a href="#">CT-007-048-12-0</a>	\$65.00	75	240x480	120	0.63	14.7	16.5	2.43	<a href="#">PDF</a>
<a href="#">CT-007-048-12-1*</a>	\$85.00			24	3.12	14.7	16.5		<a href="#">PDF</a>
<a href="#">CT-007-048-24-0</a>	\$65.00			120	0.63	14.7	16.5		<a href="#">PDF</a>
<a href="#">CT-007-060-12-0</a>	\$57.00		600	120	0.63	14.7	16.5		<a href="#">PDF</a>
<a href="#">CT-007-060-24-0</a>	\$56.00			24	3.12	14.7	16.5		<a href="#">PDF</a>
<a href="#">CT-010-048-12-0</a>	\$71.00			100	240x480	120	0.83		12.3
<a href="#">CT-010-048-24-0</a>	\$72.00	24	4.17			12.3	18.7	<a href="#">PDF</a>	
<a href="#">CT-010-060-12-0</a>	\$62.00	600	120		0.83	12.2	18.7	<a href="#">PDF</a>	
<a href="#">CT-010-060-24-0</a>	\$62.00		24		4.17	12.3	18.7	<a href="#">PDF</a>	
<a href="#">CT-015-048-12-0</a>	\$83.00	150	240x480	120	1.25	11.8	22.9	4.85	<a href="#">PDF</a>
<a href="#">CT-015-048-12-1*</a>	\$102.00			24	6.25	11.8	22.9		<a href="#">PDF</a>
<a href="#">CT-015-048-24-0</a>	\$83.00			120	1.25	11.8	22.9		<a href="#">PDF</a>
<a href="#">CT-015-060-12-0</a>	\$74.00		600	120	1.25	11.8	22.9		<a href="#">PDF</a>
<a href="#">CT-015-060-12-1*</a>	\$93.00			24	6.25	11.8	22.9		<a href="#">PDF</a>
<a href="#">CT-025-048-12-0</a>	\$103.00			250	240x480	120	2.08		8.7
<a href="#">CT-025-048-12-1*</a>	\$122.00	24	10.4			8.7	31	<a href="#">PDF</a>	
<a href="#">CT-025-048-24-0</a>	\$103.00	120	2.08			8.7	31	<a href="#">PDF</a>	
<a href="#">CT-025-060-12-0</a>	\$92.00	600	120		2.08	8.7	31	<a href="#">PDF</a>	
<a href="#">CT-025-060-12-1*</a>	\$111.00		24		10.4	8.7	31	<a href="#">PDF</a>	
<a href="#">CT-025-060-24-0</a>	\$93.00		120		2.08	8.7	31	<a href="#">PDF</a>	
<a href="#">CT-035-048-12-0</a>	\$124.00	350	240x480	120	2.92	9	38	11.02	<a href="#">PDF</a>
<a href="#">CT-035-048-12-1*</a>	\$143.00			24	14.6	9	38		<a href="#">PDF</a>
<a href="#">CT-035-048-24-0</a>	\$125.00			120	2.92	9	36		<a href="#">PDF</a>
<a href="#">CT-035-060-12-0</a>	\$115.00		600	120	2.92	9	36		<a href="#">PDF</a>
<a href="#">CT-035-060-12-1*</a>	\$116.00			24	14.6	9	38		<a href="#">PDF</a>
<a href="#">CT-050-048-12-0</a>	\$152.00			500	240x480	120	4.17		7.6
<a href="#">CT-050-048-12-1*</a>	\$171.00	24	20.8			7.6	46	<a href="#">PDF</a>	
<a href="#">CT-050-060-12-0</a>	\$141.00	600	120		4.17	7.6	46	<a href="#">PDF</a>	
<a href="#">CT-050-060-12-1*</a>	\$161.00		24		20.8	7.6	46	<a href="#">PDF</a>	
<a href="#">CT-075-048-12-0</a>	\$199.00	750	240x480	120	6.25	9.1	58.8	21.61	<a href="#">PDF</a>
<a href="#">CT-075-048-12-1*</a>	\$218.00			24	32.0	9.1	58.8		<a href="#">PDF</a>
<a href="#">CT-075-060-12-0</a>	\$191.00		600	6.25	9.1	58.8	<a href="#">PDF</a>		
<a href="#">CT-100-048-12-0</a>	\$248.00	1000	240x480	120	8.33	14.9	71.6	24.69	<a href="#">PDF</a>
<a href="#">CT-100-048-12-1*</a>	\$267.00			24	40.0	14.9	71.6		<a href="#">PDF</a>
<a href="#">CT-100-060-12-0</a>	\$238.00		600	120	8.33	14.9	71.6		<a href="#">PDF</a>
<a href="#">CT-100-060-12-1*</a>	\$258.00			24	40.0	14.9	71.6		<a href="#">PDF</a>
<a href="#">CT-150-048-12-0</a>	\$336.00	1500	240x480	120	12.5	2.7	93.1	36.82	<a href="#">PDF</a>
<a href="#">CT-150-060-12-0</a>	\$327.00		600	12.5	2.7	93.1	<a href="#">PDF</a>		
<a href="#">CT-200-048-12-0</a>	\$417.00	2000	240x480	120	16.7	2.2	106	46.3	<a href="#">PDF</a>
<a href="#">CT-200-060-12-0</a>	\$418.00		600	16.7	2.2	106	<a href="#">PDF</a>		
<a href="#">CT-250-048-12-0</a>	\$497.00	2500	240x480	120	20.8	1.9	118	56.88	<a href="#">PDF</a>
<a href="#">CT-250-060-12-0</a>	\$487.00		600	20.8	1.9	118	<a href="#">PDF</a>		

\* Models ending in "-1" include integral 3-pole fuseblock.

# BLOCK CT Series Control Power Transformers

## CT-\*-048-\*-0/1 Wiring Diagram

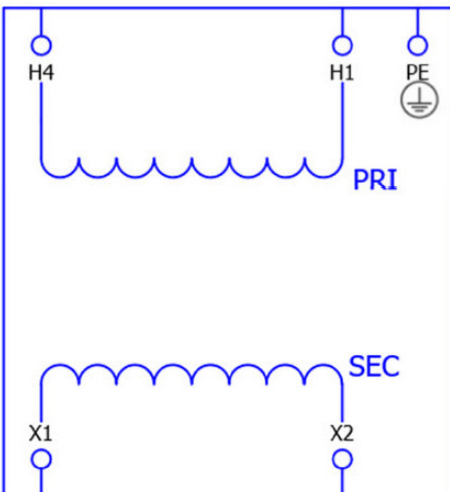
CT-\*-048-\*-0/1



For Primary	Connect To	Position Jumper
240V	H1-H4	H1-H3 & H2-H4
480V	H1-H4	H2-H3

For Secondary	Connect To	Position Jumper
120V	X1-X2	-
24V	X1-X2	-

## CT-\*-060-\*-0 Wiring Diagram



For Primary	Connect To	Position Jumper
600V	H1-H4	-

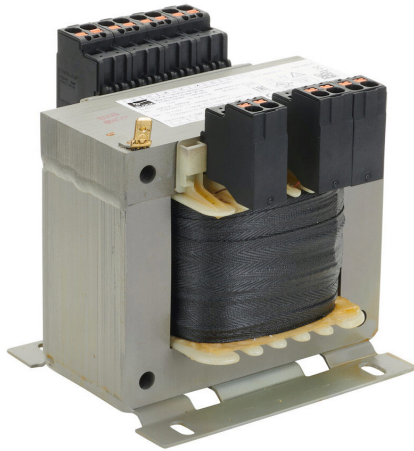
For Secondary	Connect To	Position Jumper
120V	X1-X2	-

For Primary	Connect To	Position Jumper
600V	H1-H2	-

For Secondary	Connect To	Position Jumper
24V	X1-X2	-

**NOTE:** Please refer to tables for specific connection points.

# BLOCK USTE Series Voltage Control/Isolating Transformers



USTE Voltage Control/Isolating Transformers provide universal voltage adjustment and safe separation of the input and output circuits.

In addition, these transformers meet the requirements of safety isolating or safety isolating transformers.

The safety isolating transformer has electrically separated windings in accordance with EN (IEC) 61558-2-6 and is normally used to supply SELV circuits complying with EN (IEC) 61140 and EN (IEC) 60364-4-41. Safety isolating transformers are designed for the protective measure "Safety Extra Low Voltage" to prevent dangerous touch voltages in the event of a single fault.

## Features

- Low inrush current
- DIN rail and panel mount up to 250VA
- Universal input voltage range
- Minimal noise
- Push-in terminals for quick installation
- Large input voltage range 208-600 V
- UL Listed XPTQ.E103521 - Transformers, General Purpose



USTE400/2X115

## BLOCK Voltage Control / Isolating Transformers Selection Guide

Part Number	Price	Volt-Amp Rating (VA)		Primary Voltage (VAC) (50/60Hz)	Secondary Voltage (VAC) (Nominal)	Output Current (A)	Impedance %	Total Heat Dissipation (W)	Weight lb [kg]	Drawing
		Power factor=1	Power factor=0.5							
<a href="#">USTE100/2X115</a>	\$88.00	100	310	208-600	115x230	0.43	9	15.5	4.6 [2.1]	<a href="#">PDF</a>
<a href="#">USTE100/2X12</a>	\$78.00				12x24	4.17	9.5	16.1	4.6 [2.1]	<a href="#">PDF</a>
<a href="#">USTE1000/2X115</a>	\$295.00	1000	5000		115x230	4.35	4.2	71	30.9 [14.0]	<a href="#">PDF</a>
<a href="#">USTE1600/2X115</a>	\$391.00	1600	7800		115x230	6.96	3.3	87	41.7 [18.9]	<a href="#">PDF</a>
<a href="#">USTE250/2X115</a>	\$116.00	250	850		115x230	2x1.09	7.7	25.3	7.9 [3.6]	<a href="#">PDF</a>
<a href="#">USTE250/2X12</a>	\$116.00	250	850		12x24	10.4	8	28.9	7.9 [3.6]	<a href="#">PDF</a>
<a href="#">USTE2500/2X115</a>	\$664.00	2500	12500		115x230	10.8	2.7	125	63.3 [28.7]	<a href="#">PDF</a>
<a href="#">USTE3200/2X115</a>	\$882.00	3200	14400		115x230	13.91	2.9	131	92.6 [42.0]	<a href="#">PDF</a>
<a href="#">USTE40/2X12</a>	\$64.00	40	100		12x24	1.67	7	6.5	3.1 [1.4]	<a href="#">PDF</a>
<a href="#">USTE400/2X115</a>	\$158.00	400	1440		115x230	1.74	6.5	36.4	11.7 [5.3]	<a href="#">PDF</a>
<a href="#">USTE400/2X12</a>	\$154.00	400	1440		12x24	16.7	6.4	35.9	11.7 [5.3]	<a href="#">PDF</a>
<a href="#">USTE500/2X115</a>	\$188.00	500	2000		115x230	2.17	3.6	37.7	17.4 [7.9]	<a href="#">PDF</a>
<a href="#">USTE800/2X115</a>	\$203.00	800	3400		115x230	3.48	4	58.5	23.1 [10.5]	<a href="#">PDF</a>

## BLOCK Control Transformers Jumper

Part Number	Price	Description
<a href="#">PQI-4/2/PTKS</a>	\$10.50	Voltage selection jumper, push-in type, 2-pole. Package of 10.



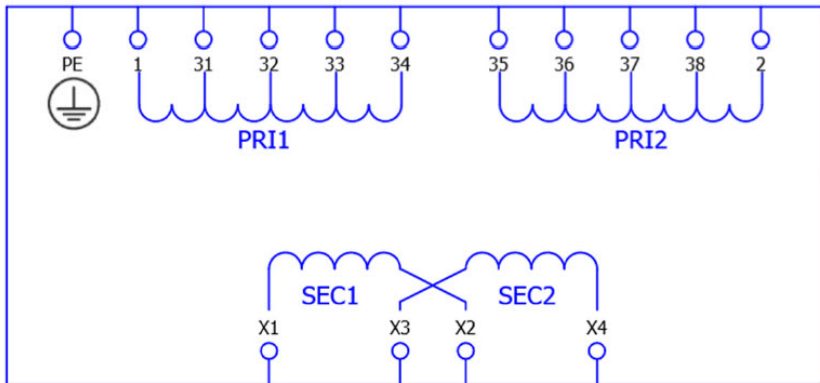
PQI-4/2/PTKS

## USTE Series Connecting/Disconnecting Push-in Terminals

<a href="#">UL Wire Cross-Section Single-Core (Rigid) AWG, Max</a>	10
<a href="#">UL Wire Cross-Section Single-Core (Rigid) AWG, Min</a>	20
<a href="#">UL Wire Cross-Section Stranded AWG, Max</a>	10
<a href="#">UL Wire Cross-Section Stranded AWG, Min</a>	20
<a href="#">UL Wire Material</a>	Cu
<a href="#">KEMA Wire Cross-Section Single-Core (Rigid) AWG, Max</a>	0.5 mm <sup>2</sup>
<a href="#">KEMA Wire Cross-Section Single-Core (Rigid) AWG, Min</a>	6mm <sup>2</sup>
<a href="#">KEMA Wire Cross-Section Stranded With/Without Ferrules, Max</a>	4mm <sup>2</sup>
<a href="#">KEMA Wire Cross-Section Stranded With/Without Ferrules, Min</a>	0.5 mm <sup>2</sup>

# BLOCK USTE Series Voltage Control/Isolating Transformers

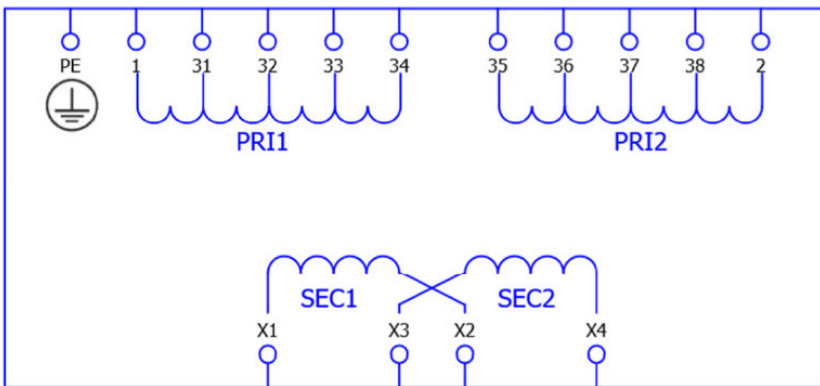
## USTE \*/2X12 Wiring Diagram



Jumper Between	Connect To	For Pri
1-37 & 2-31	1-2	208V
1-36 & 2-32		230V
31-38		380V
32-38		400V
31-37		415V
32-37		440V
32-36		460V
33-36		480V
34-36		500V
31-35		525V
32-35		550V
33-35		575V
34-35		600V

Jumper Between	Connect To	For Sec
X1-X3 & X2-X4	X1-X4	12V
X2-X3		24V

## USTE \*/2X115 Wiring Diagram



Jumper Between	Connect To	For Pri
1-37 & 2-31	1-2	208V
1-36 & 2-32		230V
31-38		380V
32-38		400V
31-37		415V
32-37		440V
32-36		460V
33-36		480V
34-36		500V
31-35		525V
32-35		550V
33-35		575V
34-35		600V

Jumper Between	Connect To	For Sec
X1-X3 & X2-X4	X1-X4	115V
X2-X3		230V

## Fast and Easy Tool-Free Connecting/Disconnecting

