

BLOCK CT Series Control Power Transformers

M4 screw thread
(M4x16mm)



CT-075-048-12-0



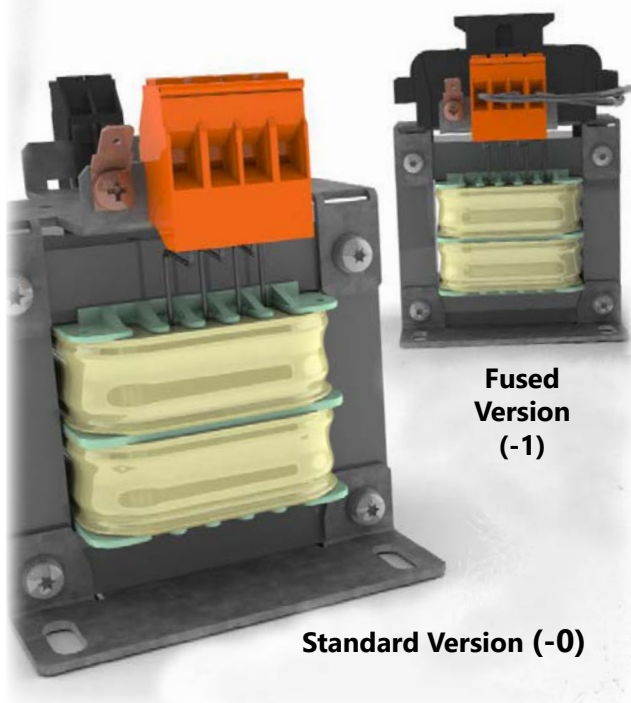
CT-075-048-12-1

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

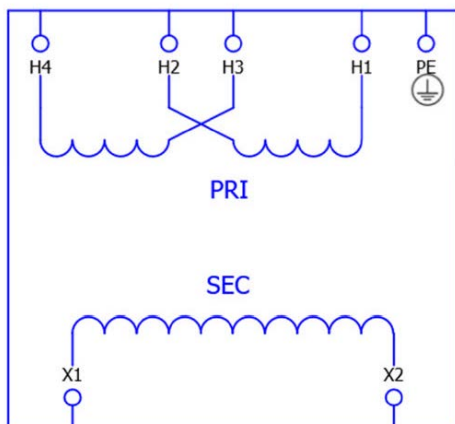
BLOCK Control Transformers Selection Guide									
Part Number	Price	Volt-Amp Rating	Primary Voltage (VAC)(50/60Hz)	Secondary Voltage (VAC) (Nominal)	Output Current (A)	Impedance %	Total Heat Dissipation (W)	Weight lb [kg]	Drawing
CT-005-048-12-0	\$;6f#1:	50	240x480	120	0.42	12.7	11	2.2	PDF
CT-005-048-24-0	\$;6f_:			24	2.08	12.7	11		PDF
CT-005-060-12-0	\$;6f#q:		600	120	0.42	12.1	11.1		PDF
CT-005-060-24-0	\$;6f#k:			24	2.08	12.1	11		PDF
CT-007-048-12-0	\$;6f#2:	75	240x480	120	0.63	14.7	16.5	2.43	PDF
CT-007-048-12-1*	\$;6f#3:			24	3.12	14.7	16.5		PDF
CT-007-048-24-0	\$;6f_#:			120	0.63	14.7	16.5		PDF
CT-007-060-12-0	\$;6f#s:		600	120	0.63	14.7	16.5		PDF
CT-007-060-24-0	\$;-6f#l:			24	3.12	14.7	16.5		PDF
CT-010-048-12-0	\$;6f#4:	100	240x480	120	0.83	12.3	18.7	3.31	PDF
CT-010-048-24-0	\$;6f_!:			24	4.17	12.3	18.7		PDF
CT-010-060-12-0	\$;6f#t:		600	120	0.83	12.2	18.7		PDF
CT-010-060-24-0	\$;6f#n:			24	4.17	12.3	18.7		PDF
CT-015-048-12-0	\$;6f#5:	150	240x480	120	1.25	11.8	22.9	4.85	PDF
CT-015-048-12-1*	\$;06f#6:			24	6.25	11.8	22.9		PDF
CT-015-048-24-0	\$;6f_?:			120	1.25	11.8	22.9		PDF
CT-015-060-12-0	\$;6f#u:		600	120	1.25	11.8	22.9		PDF
CT-015-060-12-1*	\$;6f#v:			24	6.25	11.8	22.9		PDF
CT-025-048-12-0	\$;06f#7:	250	240x480	120	2.08	8.7	31	7.72	PDF
CT-025-048-12-1*	\$;06f#8:			24	10.4	8.7	31		PDF
CT-025-048-24-0	\$;06f_!:			120	2.08	8.7	31		PDF
CT-025-060-12-0	\$;6f#x:		600	120	2.08	8.7	31		PDF
CT-025-060-12-1*	\$;06f#y:			24	10.4	8.7	31		PDF
CT-025-060-24-0	\$;6f#o:			120	2.08	8.7	31		PDF
CT-035-048-12-0	\$;06f#9:	350	240x480	120	2.92	9	38	11.02	PDF
CT-035-048-12-1*	\$;06f#a:			24	14.6	9	38		PDF
CT-035-048-24-0	\$;06f#0:			120	2.92	9	36		PDF
CT-035-060-12-0	\$;06f#z:		600	120	2.92	9	36		PDF
CT-035-060-24-0	\$;06f#p:			24	14.6	9	38		PDF
CT-050-048-12-0	\$;06f#b:	500	240x480	120	4.17	7.6	46	14.99	PDF
CT-050-048-12-1*	\$;06f#c:			24	20.8	7.6	46		PDF
CT-050-060-12-0	\$;06f#j:		600	120	4.17	7.6	46		PDF
CT-050-060-12-1*	\$;06f#l:			24	20.8	7.6	46		PDF
CT-075-048-12-0	\$;06f#d:	750	240x480	120	6.25	9.1	58.8	21.61	PDF
CT-075-048-12-1*	\$;06f#e:		600	120	6.25	9.1	58.8		PDF
CT-075-060-12-0	\$;06f_#:		240x480	120	6.25	9.1	58.8		PDF
CT-100-048-12-0	\$;06f#f:	1000	240x480	120	8.33	14.9	71.6	24.69	PDF
CT-100-048-12-1*	\$;06f#g:			24	41.6	14.9	71.6		PDF
CT-100-060-12-0	\$;06f##:		600	120	8.33	14.9	71.6		PDF
CT-100-060-12-1*	\$;06f#l:			24	41.6	14.9	71.6		PDF
CT-150-048-12-0	\$;06f#h:	1500	240x480	120	12.5	2.7	93.1	36.82	PDF
CT-150-060-12-0	\$;06f#?:		600	120	12.5	2.7	93.1		PDF
CT-200-048-12-0	\$;-06f#i:	2000	240x480	120	16.7	2.2	106	46.3	PDF
CT-200-060-12-0	\$;06f#,::		600	120	16.7	2.2	106		PDF
CT-250-048-12-0	\$;-06f#j:	2500	240x480	120	20.8	1.9	118	56.88	PDF
CT-250-060-12-0	\$;06f#0:		600	120	20.8	1.9	118		PDF

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

BLOCK CT Series Control Power Transformers

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

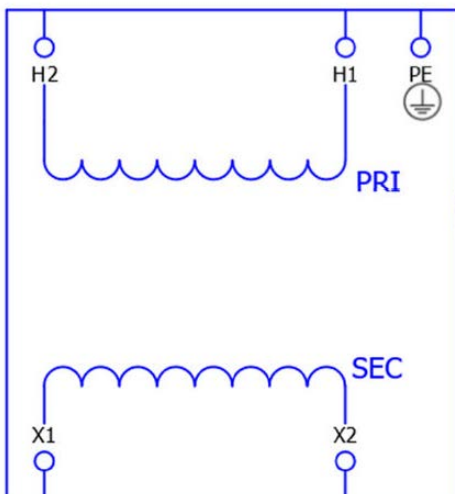
CT-*-048-*-0/1



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-H2	—

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							
USTE100/2X115	\$,-615[	100	310	208-600	115x230	0.43	9	15.5	4.6 [2.1]	PDF
USTE100/2X12	\$,-615,:				12x24	4.17	9.5	16.1	4.6 [2.1]	PDF
USTE1000/2X115	\$-0615v:	1000	5000		115x230	4.35	4.2	71	30.9 [14.0]	PDF
USTE1600/2X115	\$-0615x:	1600	7800		115x230	6.96	3.3	87	41.7 [18.9]	PDF
USTE250/2X115	\$-0615,:	250	850		115x230	2x1.09	7.7	25.3	7.9 [3.6]	PDF
USTE250/2X12	\$-06160:	250	850		12x24	10.4	8	28.9	7.9 [3.6]	PDF
USTE2500/2X115	\$-0615y:	2500	12500		115x230	10.8	2.7	125	63.3 [28.7]	PDF
USTE3200/2X115	\$-0615z:	3200	14400		115x230	13.91	2.9	131	92.6 [42.0]	PDF
USTE40/2X12	\$,-615]:	40	100		12x24	1.67	7	6.5	3.1 [1.4]	PDF
USTE400/2X115	\$-0615#:	400	1440		115x230	1.74	6.5	36.4	11.7 [5.3]	PDF
USTE400/2X12	\$-06161:	400	1440		12x24	16.7	6.4	35.9	11.7 [5.3]	PDF
USTE500/2X115	\$,-0615!:	500	2000		115x230	2.17	3.6	37.7	17.4 [7.9]	PDF
USTE800/2X115	\$-0615?:	800	3400		115x230	3.48	4	58.5	23.1 [10.5]	PDF

BLOCK Control Transformers Jumper

Part Number	Price	Description
PQI-4/2/PTKS	\$,-616!e:	Voltage selection jumper, push-in type, 2-pole. Package of 10.



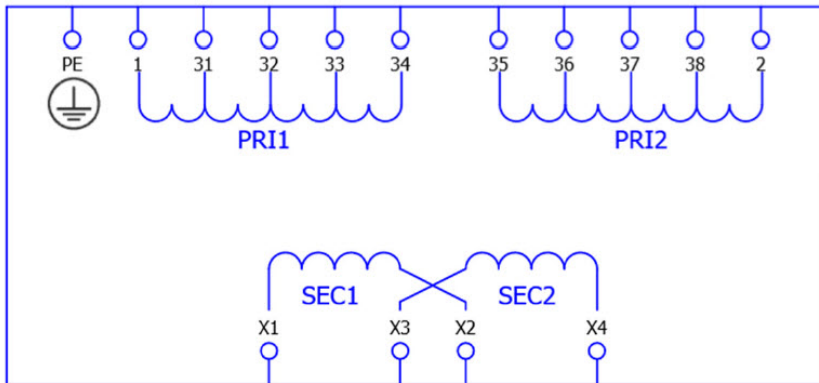
[PQI-4/2/PTKS](#)

USTE Series Connecting/Disconnecting Push-in Terminals

UL Wire Cross-Section Single-Core (Rigid) AWG, Max	10
UL Wire Cross-Section Single-Core (Rigid) AWG, Min	20
UL Wire Cross-Section Stranded AWG, Max	10
UL Wire Cross-Section Stranded AWG, Min	20
UL Wire Material	Cu
KEMA Wire Cross-Section Single-Core (Rigid) AWG, Max	0.5 mm ²
KEMA Wire Cross-Section Single-Core (Rigid) AWG, Min	6mm ²
KEMA Wire Cross-Section Stranded With/Without Ferrules, Max	4mm ²
KEMA Wire Cross-Section Stranded With/Without Ferrules, Min	0.5 mm ²

BLOCK USTE Series Voltage Control/Isolating Transformers

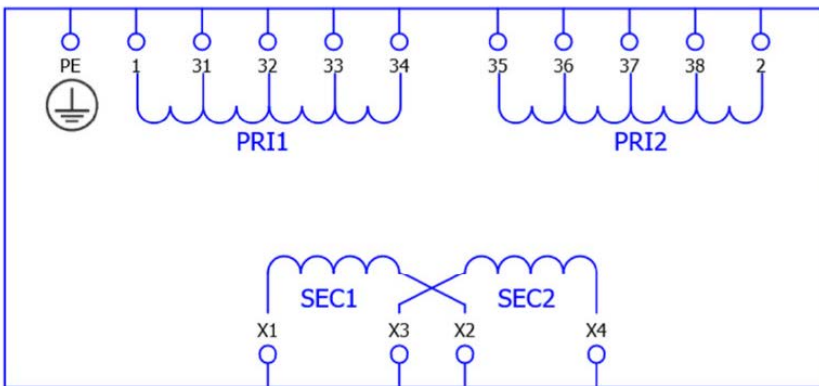
USTE */2X12 Wiring Diagram



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

