E681x & E682x Series

E681x

E682x

SPECIFICATIONS (Split-core)

Output at Rated Current	0.333 VAC
Accuracy	1% from 10% to 100% of rated current
Frequency Range	50/60 Hz
Leads	22 AWG, 600VAC, UL 1015 bonded pair, 6 ft. (1.8m) standard length
Max. Voltage L-N Sensed Conductor*	E681A051V3: 300VAC (basic insulation rating), 150VAC (reinforced insulation rating) E681B101V3 and E681C201V3: 600VAC (basic insulation rating), 300VAC (reinforced insulation rating)
Operating Temp Range	0° to 70°C (32° to 158°F)
Storage Temp Range	-40° to 105°C (-40° to 221°F)
Humidity Range	0-95% non-condensing
Altitude of Operation	3km max.
Agency Approvals	UL61010-1, EN61010-1
Installation Category	Category III, pollution degree 2

SPECIFICATIONS (Solid-core)

5 Year Warranty

Output at Rated Current	0.333VAC
Accuracy	±0.5% of reading from 5% to 120% of rated current
Frequency Range	50/60 Hz
Leads	22 AWG, 600VAC, UL 1015 bonded pair, 6 ft. (1.8m) standard length
Max. Voltage L-N Sensed Conductor*	600VAC (basic insulation rating), 300VAC (reinforced insulation rating)
Operating Temp Range	-40° to 85°C (40° to 185°F)
Storage Temp Range	-50° to 105°C (-58° to 221°F)
Humidity Range	0-95% non-condensing
Altitude of Operation	3km max.
Agency Approvals	UL61010-1, EN61010-1
Installation Category	Category III, pollution degree 2

** Do not apply these current transducers to circuits having a phase-to-phase voltage greater than the maximum rated voltage (300VAC or 600VAC, see above), unless adequate additional insulation is applied between the primary conductor and the current transducers. Veris assumes no responsibility for damage of equipment or personal injury caused by products operated on circuits above their published ratings.*

Medium Current Ranges

FEATURES

- *High accuracy: ±0.5% from 5% to 120% of rated current for E682x or ±1% from 10% to 100% of rated current for E681x*
- *0.333V output*
- *UL recognized*

DESCRIPTION

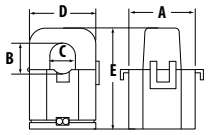
The **E681x and E682x Series** of current transducers provide a standard voltage output for use with data loggers, chart recorders, and power monitoring equipment. Both series have 0.333 V output. E682x devices are solid-core, while E681x CTs are split-core.

APPLICATIONS

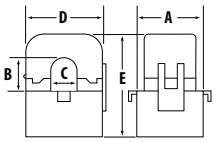
- *Data logging*
- *Recording*
- *Power monitoring*
- *Energy management*
- *Alternative energy monitoring*
- *Cost allocation*

DIMENSIONAL DRAWINGS

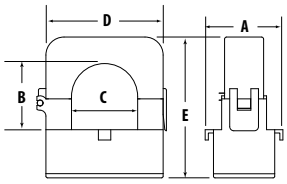
E681x



E31CT0 50 Amp
A = 1.0″ (26 mm)
B = 0.5″ (11 mm)
C = 0.4″ (10 mm)
D = 0.9″ (23 mm)
E = 1.6″ (40 mm)

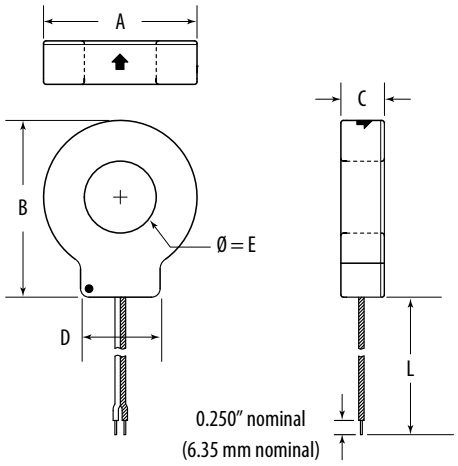


E31CT1 100 Amp
A = 1.5″ (37.5 mm)
B = 0.6″ (16 mm)
C = 0.6″ (16 mm)
D = 1.85″ (47 mm)
E = 2.1″ (53 mm)



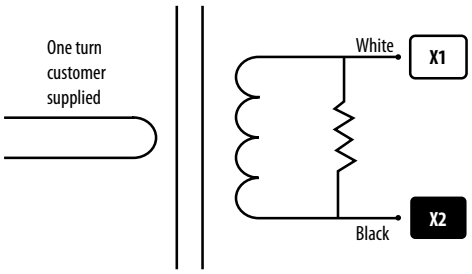
E31CT3 200 Amp
A = 1.5″ (39 mm)
B = 1.25″ (32 mm)
C = 1.25″ (32 mm)
D = 2.5″ (64 mm)
E = 2.8″ (71 mm)

E682x



Model	L	A	B	C	D	E
E682A051V3	6' (1.8 m)	1.3" (33 mm)	1.5" (38 mm)	0.7" (18 mm)	0.8" (21 mm)	0.4" (10 mm)
E682A101V3						
E682C201V3	6' (1.8 m)	2.3" (59 mm)	2.6" (66 mm)	0.7" (18 mm)	1.2" (31 mm)	1.0" (25 mm)
E682D401V3	6' (1.8 m)	2.8" (70 mm)	3.2" (82 mm)	1.0" (25 mm)	1.4" (36 mm)	1.25" (31 mm)

WIRING EXAMPLE



ORDERING INFORMATION

Split-core

207042

MODEL	DESCRIPTION
E681A051V3	Split-core CT, 50A:0.333V, 0.4 in ID, 6 ft leads
E681B101V3	Split-core CT, 100A:0.333V, 0.6 in ID, 6 ft leads
E681C201V3	Split-core CT, 200A:0.333V, 1.25 in ID, 6 ft leads

Solid-core

207042

MODEL	DESCRIPTION
E682A051V3	Solid-core CT, 50A:0.333V, 0.4 in ID, 6 ft leads
E682A101V3	Solid-core CT, 100A:0.333V, 0.4 in ID, 6 ft leads
E682C201V3	Solid-core CT, 200A:0.333V, 1.0 in ID, 6 ft leads
E682D401V3	Solid-core CT, 400A:0.333V, 1.25 in ID, 6 ft leads

Other lead lengths are available. Consult factory.