

September 2016

Clamp Type AC Current Sensors

For energy management systems

CCT406393 CCT354571 CCT323047 CCT272440 CCT261631

An attention matter on use

Please read this specifications before using this product by all means.

An attention matter on security

I undertake use with this product, and it is paid attention enough, and please design an attention matter safely.

Attention on a design

- When choosing load resistances used for current detection, be sure to select products with high precision and good temperature characteristics.
 Magnetic flux to leak out occurs. Please confirm it about influence of magnetic flux beforehand.
- There is fear to cause false movement of machinery.

The product is not quakeproof structure.
 Accordingly please do not add vibration and a shock to it.

There is fear to lose a function.

Attention on the handling

O Please do not use it when you let a product drop.

- The product produces possibility to lose a function
- Please avoid the next place. The place that receives a drop of water, trash, the dust, foggy influence. The place where direct rays of the sun hits. There is fear to cause false movement of machinery.
- Please prohibit safekeeping and use at the next place. Environment to be accompanied with gas corrosion, salt, acid, alkali. There is fear to lose a function.
- When you carry the product on a base of an electric circuit.
 Please do not use a metal tool. Because impossible power is added to a product.
 There is fear to lose a function.

Attention

O I considered the next matter, and we designed a product.

Safe standard and power supply voltage and circuit drive condition, drive frequency and Duty ON-TIME.

By those conditions, we decided structure and the turns number.

Please avoid use in designed condition outside.

There are destruction of a circuit part and fear of ignition.

O This product considered a characteristic of a component and a self temperature rise, and it was made.

We select range of humidity as use temperature already.

Please avoid use by range more than this.

There are the damage and fear of ignition.

O Please avoid use in the environment next.

The environment that trash and the dust stick to a product. There is fear to cause a fire.

The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.

The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property. If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.

- (1) Aerospace/Aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

Clamp Type AC Current Sensors

Product compatible with RoHS directive Compatible with lead-free solders

For energy management systems

Overview of the CCT Series

FEATURES

- O Clamp type for easy installation on existing power equipment.
- O Accommodates automatic processes from wire wrapping and winding to soldering, eusuring high-quality and stable supply.
- O Equipped with a built-in open-circuit protective device.
- O Product compatible with RoHS directive.

APPLICATION

For energy management systems such as HEMS, BEMS, FEMS, CEMS

PART NUMBER CONSTRUCTION



OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY, PRODUCT WEIGHT

	Temperature range			
Туре	Operating temperature*	Storage temperature**	Package quantity	Individual weight
	(°C)	(°C)	(pieces/box)	(g)
CCT406393	-20 to 60	-30 to 60	8	535
CCT354571	-20 to 60	-30 to 60	24	221
CCT323047	-20 to 60	-30 to 60	36	70
CCT272440	-20 to 60	-30 to 60	36	41
CCT261631	-20 to 60	-30 to 60	60	24

* Operating temperature range includes self-temperature rise.

** The Storage temperature range is for after the assembly.

O RoHS Directive Compliant Product: See the following for more details.https://product.tdk.com/info/en/environment/rohs/index.html

SENSORS

CCT series CCT406393 Type

SHAPE & DIMENSIONS



CIRCUIT DIAGRAM



A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

(4/13)

CCT series CCT406393 Type

SPECIFICATION

Part No.		CCT406393-600-36-00	CCT406393-600-36-02
Applied current		AC 1.0 to 600Arms (50/60Hz)	AC 1.0 to 600Arms (50/60Hz)
Maximum allowed	d current	AC 700Arms continuous	AC 700Arms continuous
Internal clamp se	ction diameter	36mm	36mm
Nominal current	transformation ratio	3000:1	3000:1
Output current ad	ccuracy	200.0mA±1% (600A, 50/60Hz)	200.0mA±1% (600A, 50/60Hz)
Phase difference		0.35°±0.2°(10Ω, 600A, 50/60Hz)	0.35°±0.2°(10Ω, 600A, 50/60Hz)
Secondary windi	ng resistance	64Ω	64Ω
Open-circuit prot	ection	7.5V Clamp element	7.5V Clamp element
Output	Pin contact	SYM-001T-P0.6 (JST)	SPAL-001T-P0.5 (JST)
connector	Receptacle housing	SMR-02V-B (JST)	PALR-02VF (JST)
Adaptation	Socket contact	SHF-001T-0.8BS (JST)	SPHD-001T-P0.5 (JST)
connector	Plug housing	SMP-02V (JST)	PAP-02V-S (JST)
Output lead wire		AWG22 155mm	AWG22 155mm
Allowable desorp	tion number of times	About100 times	About100 times
Withstanding Vol	tage	AC2200V, 1min. (Between outer case and output)	AC2200V, 1min. (Between outer case and output)
Insulation Resist	ance	100MΩ Over (DC500V)	100MΩ Over (DC500V)
Flame retardant g	grade	UL 94 V-0	UL 94 V-0

ELECTRICAL CHARACTERISTICS

MEASURING DIAGRAM



Current transformer

10000 1000 Output voltage Vo(mVrms) RL=1kΩ 100 10 RL=100Ω 1 RL=100 0.1 └─ 0.1 1 10 100 Through current li(Arms)

OUTPUT VOLTAGE CHARACTERISTIC

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1000

CCT series CCT354571 Type

SHAPE & DIMENSIONS



CIRCUIT DIAGRAM



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⊘TDK

CCT series CCT354571 Type

SPECIFICATION

Dant Na		CCT254571 200 24 00	CCT254574 200 24 02
Part No.		CC1354571-300-24-00	CC1354571-300-24-02
Applied current		AC 0.1 to 300Arms (50/60Hz)	AC 0.1 to 300Arms (50/60Hz)
Maximum allowed	current	AC 400Arms continuous	AC 400Arms continuous
Internal clamp see	ction diameter	24mm	24mm
Nominal current t	ransformation ratio	3000:1	3000:1
Output current ac	curacy	100.0mA±1% (300A, 50/60Hz)	100.0mA±1% (300A, 50/60Hz)
Phase difference		0.7°±0.5° (10Ω, 300A, 50/60Hz)	0.7°±0.5° (10Ω, 300A, 50/60Hz)
Secondary windin	g resistance	103Ω	103Ω
Open-circuit prote	ection	7.5V Clamp element	7.5V Clamp element
Output	Pin contact	SYM-001T-P0.6 (JST)	SPAL-001T-P0.5 (JST)
connector	Receptacle housing	SMR-02V-B (JST)	PALR-02VF (JST)
Adaptation	Socket contact	SHF-001T-0.8BS (JST)	SPHD-001T-P0.5 (JST)
connector	Plug housing	SMP-02V (JST)	PAP-02V-S (JST)
Output lead wire		AWG22 140mm	AWG22 140mm
Allowable desorp	tion number of times	AC2200V, 1min. (Between outer case and output)	AC2200V, 1min. (Between outer case and output)
Withstanding Volt	age	About100 times	About100 times
Insulation Resista	ince	100MΩ Over (DC500V)	100MΩ Over (DC500V)
Flame retardant g	rade	UL 94 V-0	UL 94 V-0

ELECTRICAL CHARACTERISTICS

MEASURING DIAGRAM



□ OUTPUT VOLTAGE CHARACTERISTIC



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CCT series CCT323047 Type

SHAPE & DIMENSIONS



CIRCUIT DIAGRAM



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CCT series CCT323047 Type

SPECIFICATION

Dort No		CCT222047 100 16 00	CCT222047 100 16 02
Fart NO.		CC1323047-100-16-00	001323047-100-16-02
Applied current		AC 0.1 to 100Arms (50/60Hz)	AC 0.1 to 100Arms (50/60Hz)
Maximum allowed	d current	AC 200Arms continuous	AC 200Arms continuous
Internal clamp se	ction diameter	16mm	16mm
Nominal current	transformation ratio	3000:1	3000:1
Output current ad	curacy	33.3mA±1% (100A, 50/60Hz)	33.3mA±1% (100A, 50/60Hz)
Phase difference		1.2°±0.8° (10Ω,100A, 50/60Hz)	1.2°±0.8° (10Ω,100A, 50/60Hz)
Secondary windi	ng resistance	285Ω	285Ω
Open-circuit prot	ection	7.5V Clamp element	7.5V Clamp element
Output	Pin contact	SYM-001T-P0.6 (JST)	SPAL-001T-P0.5 (JST)
connector	Receptacle housing	SMR-02V-B (JST)	PALR-02VF (JST)
Adaptation	Socket contact	SHF-001T-0.8BS (JST)	SPHD-001T-P0.5 (JST)
connector	Plug housing	SMP-02V (JST)	PAP-02V-S (JST)
Output lead wire		AWG22 150mm	AWG22 150mm
Allowable desorp	tion number of times	About100 times	About100 times
Withstanding Vol	tage	AC2200V, 1min. (Between outer case and output)	AC2200V, 1min. (Between outer case and output)
Insulation Resist	ance	100MΩ Over (DC500V)	100MΩ Over (DC500V)
Flame retardant g	grade	UL 94 V-0	UL 94 V-0

ELECTRICAL CHARACTERISTICS

MEASURING DIAGRAM



OUTPUT VOLTAGE CHARACTERISTIC



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CCT series CCT272440 Type

SHAPE & DIMENSIONS



CIRCUIT DIAGRAM



A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

SENSORS

CCT series CCT272440 Type

SPECIFICATION

Part No. CCT272440-80-10-00 CCT272440-80-10-02 Applied current AC 0.1 to 80Arms (50/60Hz) AC 0.1 to 80Arms (50/60Hz) Maximum allowed current AC 120Arms continuous AC 120Arms continuous Internal clamp section diameter 10mm 10mm Nominal current transformation ratio 3000:1 3000:1 Output current accuracy 26.6mA±1% (80A, 50/60Hz) 2.6.6mA±1% (80A, 50/60Hz) Phase difference 1.7°±1.0° (10Ω, 80A, 50/60Hz) 1.7°±1.0° (10Ω, 80A, 50/60Hz) Secondary winding resistance 352Ω 352Ω Open-circuit protection 7.5V Clamp element 7.5V Clamp element Output Pin contact SYM-001T-P0.6 (JST) SPAL-001T-P0.5 (JST) Connector Receptacle housing SMR-02V-B (JST) PALR-02VF (JST) Adaptation Socket contact SHF-001T-0.8BS (JST) SPHD-001T-P0.5 (JST) Output lead wire AWG22 155mm AWG22 155mm AWG22 155mm Allowable desorption number of times About100 times About100 times About100 times Mithstanding Voltage AC2200V, 1min. (Between outer case and output) AC2200V, 1min. (Between outer case and output) AOMΩΩ Over (DC500V)				
Applied currentAC 0.1 to 80Arms (50/60Hz)AC 0.1 to 80Arms (50/60Hz)Maximum allowed currentAC 120Arms continuousAC 120Arms continuousInternal clamp section diameter10mm10mmNominal current transformation ratio3000:13000:1Output current acuracy26.6mA±1% (80A, 50/60Hz)26.6mA±1% (80A, 50/60Hz)Phase difference1.7°±1.0° (10Ω, 80A, 50/60Hz)1.7°±1.0° (10Ω, 80A, 50/60Hz)Secondary winding resistance352Ω352ΩOpen-circuit protection7.5V Clamp element7.5V Clamp elementOutputPin contactSYM-001T-P0.6 (JST)SPAL-001T-P0.5 (JST)OutputPin contactSHF-001T-0.8BS (JST)SPHD-001T-P0.5 (JST)AdaptationSocket contactSHF-001T-0.8BS (JST)SPHD-001T-P0.5 (JST)ConnectorPiug housingSMP-02V (JST)AWG22 155mmAllowable desorption number of timesAbout100 timesAbout100 timesAllowable desorption number of timesAbout100 timesAbout100 timesMithstanding VoltageAC2200V, 1min. (Between outer case and output)AC2200V, 1min. (Between outer case and output)Insulation Resistance100MΩ Over (DC500V)100MΩ Over (DC500V)	Part No.		CCT272440-80-10-00	ССТ272440-80-10-02
Maximum allowed currentAC 120Arms continuousAC 120Arms continuousInternal clamp section diameter10mm10mmNominal current transformation ratio3000:13000:1Output current accuracy26.6mA±1% (80A, 50/60Hz)26.6mA±1% (80A, 50/60Hz)Phase difference1.7°±1.0° (10Q, 80A, 50/60Hz)1.7°±1.0° (10Q, 80A, 50/60Hz)Secondary winding resistance352Q352QOpen-circuit protection7.5V Clamp element7.5V Clamp elementOutputPin contactSYM-001T-P0.6 (JST)SPAL-001T-P0.5 (JST)ConnectorReceptacle housingSMR-02V-B (JST)SPHD-001T-P0.5 (JST)Adaptation connectorSocket contactSHF-001T-0.8BS (JST)SPHD-001T-P0.5 (JST)Output lead wireAWG22 155mmAWG22 155mmAWG22 155mmAllowable desorption number of timesAbout100 timesAbout100 timesWithstanding VoltageAC2200V, 1min. (Between outer case and output)AC2200V, 1min. (Between outer case and output)Insulation Resistance100MΩ Over (DC500V)100MΩ Over (DC500V)	Applied current		AC 0.1 to 80Arms (50/60Hz)	AC 0.1 to 80Arms (50/60Hz)
Internal clamp section diameter10mm10mmNominal current transformation ratio3000:13000:1Output current acuracy26.6mA±1% (80A, 50/60Hz)26.6mA±1% (80A, 50/60Hz)Phase difference1.7°±1.0° (10Ω, 80A, 50/60Hz)1.7°±1.0° (10Ω, 80A, 50/60Hz)Secondary winding resistance352Ω352ΩOpen-circuit protection7.5V Clamp element7.5V Clamp elementOutputPin contactSYM-001T-P0.6 (JST)SPAL-001T-P0.5 (JST)ConnectorReceptacle housingSMR-02V-B (JST)SPHD-001T-P0.5 (JST)Adaptation connectorSocket contactSHF-001T-0.8BS (JST)SPHD-001T-P0.5 (JST)Output lead wireAWG22 155mmAWG22 155mmAWG22 155mmAllowable desorption number of timesAbout100 timesAbout100 timesWithstanding VoltageAC2200V, 1min. (Between outer case and output)AC2200V, 1min. (Between outer case and output)Insulation Resistance100MΩ Over (DC500V)100MΩ Over (DC500V)	Maximum allowed	l current	AC 120Arms continuous	AC 120Arms continuous
Nominal current transformation ratio3000:13000:1Output current accuracy26.6mA±1% (80A, 50/60Hz)26.6mA±1% (80A, 50/60Hz)Phase difference1.7°±1.0° (10Ω, 80A, 50/60Hz)1.7°±1.0° (10Ω, 80A, 50/60Hz)Secondary winding resistance352Ω352ΩOpen-circuit protection7.5V Clamp element7.5V Clamp elementOutputPin contactSYM-001T-P0.6 (JST)SPAL-001T-P0.5 (JST)ConnectorReceptacle housingSMR-02V-B (JST)PALR-02VF (JST)AdaptationSocket contactSHF-001T-0.8BS (JST)SPHD-001T-P0.5 (JST)ConnectorPlug housingSMP-02V (JST)SPHD-001T-P0.5 (JST)Output lead wireAWG22 155mmAWG22 155mmAllowable desorption number of timesAbout100 timesAbout100 timesMithstanding VoltageAC2200V, 1min. (Between outer case and output)AC2200V, 1min. (Between outer case and output)Insulation Resistance100MΩ Over (DC500V)100MΩ Over (DC500V)	Internal clamp se	ction diameter	10mm	10mm
Output current accuracy 26.6mA±1% (80A, 50/60Hz) 26.6mA±1% (80A, 50/60Hz) Phase difference 1.7°±1.0° (10Ω, 80A, 50/60Hz) 1.7°±1.0° (10Ω, 80A, 50/60Hz) Secondary winding resistance 352Ω 352Ω Open-circuit protection 7.5V Clamp element 7.5V Clamp element Output Pin contact SYM-001T-P0.6 (JST) SPAL-001T-P0.5 (JST) connector Receptacle housing SMR-02V-B (JST) PALR-02VF (JST) Adaptation Socket contact SHF-001T-0.8BS (JST) SPHD-001T-P0.5 (JST) Connector Plug housing SMP-02V (JST) PAP-02V-S (JST) Output lead wire AWG22 155mm AWG22 155mm About100 times Allowable desorption number of times About100 times About100 times About100 times Withstanding Voltage AC2200V, 1min. (Between outer case and output) AC2200V, 1min. (Between outer case and output) AC2200V)	Nominal current t	ransformation ratio	3000:1	3000:1
Phase difference $1.7^{\circ}\pm 1.0^{\circ} (10\Omega, 80A, 50/60Hz)$ $1.7^{\circ}\pm 1.0^{\circ} (10\Omega, 80A, 50/60Hz)$ Secondary winding resistance 352Ω 352Ω Open-circuit protection $7.5V$ Clamp element $7.5V$ Clamp element Output Pin contact SYM-001T-P0.6 (JST) SPAL-001T-P0.5 (JST) connector Receptacle housing SMR-02V-B (JST) PALR-02VF (JST) Adaptation Socket contact SHF-001T-0.8BS (JST) SPHD-001T-P0.5 (JST) connector Plug housing SMP-02V (JST) SPHD-001T-P0.5 (JST) Output lead wire AWG22 155mm AWG22 155mm Allowable desorption number of times About100 times About100 times Withstanding Voltage AC2200V, 1min. (Between outer case and output) AC2200V, 1min. (Between outer case and output) Insulation Resistarce 100MΩ Over (DC500V) 100MΩ Over (DC500V) 100MΩ Over (DC500V)	Output current ac	curacy	26.6mA±1% (80A, 50/60Hz)	26.6mA±1% (80A, 50/60Hz)
Secondary winding resistance 352Ω Open-circuit protection 7.5V Clamp element Output Pin contact SYM-001T-P0.6 (JST) Connector Receptacle housing SMR-02V-B (JST) Adaptation Socket contact SHF-001T-0.8BS (JST) Connector Plug housing SMP-02V (JST) Plug housing SMP-02V (JST) Output lead wire AWG22 155mm Allowable desorption number of times About100 times Allowable desorption number of times Ac2200V, 1min. (Between outer case and output) AC2200V, 1min. (Between outer case and output) AC2200V, 1min. (Between outer case and output)	Phase difference		1.7°±1.0° (10Ω, 80A, 50/60Hz)	1.7°±1.0° (10Ω, 80A, 50/60Hz)
Open-circuit protection 7.5V Clamp element 7.5V Clamp element Output Pin contact SYM-001T-P0.6 (JST) SPAL-001T-P0.5 (JST) connector Receptacle housing SMR-02V-B (JST) PALR-02VF (JST) Adaptation Socket contact SHF-001T-0.8BS (JST) SPHD-001T-P0.5 (JST) connector Plug housing SMP-02V (JST) PAP-02V-S (JST) Output lead wire AWG22 155mm AWG22 155mm Allowable desorption number of times About100 times About100 times Withstanding Voltage AC2200V, 1min. (Between outer case and output) AC2200V, 1min. (Between outer case and output) Insulation Resistarce 100MΩ Over (DC500V) 100MΩ Over (DC500V) 100MΩ Over (DC500V)	Secondary windir	ng resistance	352Ω	352Ω
Pin contact SYM-001T-P0.6 (JST) SPAL-001T-P0.5 (JST) connector Receptacle housing SMR-02V-B (JST) PALR-02VF (JST) Adaptation connector Socket contact SHF-001T-0.8BS (JST) SPHD-001T-P0.5 (JST) Plug housing SMP-02V (JST) PAP-02V-S (JST) Output lead wire AWG22 155mm AWG22 155mm Allowable desorption number of times About100 times About100 times Withstanding Voltage AC2200V, 1min. (Between outer case and output) AC2200V, 1min. (Between outer case and output) Insulation Resistance 100MΩ Over (DC500V) 100MΩ Over (DC500V)	Open-circuit prote	ection	7.5V Clamp element	7.5V Clamp element
Receptacle housing SMR-02V-B (JST) PALR-02VF (JST) Adaptation connector Socket contact SHF-001T-0.8BS (JST) SPHD-001T-P0.5 (JST) Plug housing SMP-02V (JST) PAP-02V-S (JST) Output lead wire AWG22 155mm AWG22 155mm Allowable desorption number of times About100 times About100 times Withstanding Voltage AC2200V, 1min. (Between outer case and output) AC2200V, 1min. (Between outer case and output) Insulation Resistance 100MΩ Over (DC500V) 100MΩ Over (DC500V)	Output	Pin contact	SYM-001T-P0.6 (JST)	SPAL-001T-P0.5 (JST)
Adaptation connector Socket contact SHF-001T-0.8BS (JST) SPHD-001T-P0.5 (JST) Plug housing SMP-02V (JST) PAP-02V-S (JST) Output lead wire AWG22 155mm AWG22 155mm Allowable desorption number of times About100 times About100 times Withstanding Voltage AC2200V, 1min. (Between outer case and output) AC2200V, 1min. (Between outer case and output) Insulation Resistance 100MΩ Over (DC500V) 100MΩ Over (DC500V)	connector	Receptacle housing	SMR-02V-B (JST)	PALR-02VF (JST)
Plug housing SMP-02V (JST) PAP-02V-S (JST) Output lead wire AWG22 155mm AWG22 155mm Allowable desorption number of times About100 times About100 times Withstanding Voltage AC2200V, 1min. (Between outer case and output) AC2200V, 1min. (Between outer case and output) Insulation Resistance 100MΩ Over (DC500V) 100MΩ Over (DC500V)	Adaptation	Socket contact	SHF-001T-0.8BS (JST)	SPHD-001T-P0.5 (JST)
Output lead wire AWG22 155mm AWG22 155mm Allowable desorption number of times About100 times About100 times Withstanding Voltage AC2200V, 1min. (Between outer case and output) AC2200V, 1min. (Between outer case and output) Insulation Resistance 100MΩ Over (DC500V) 100MΩ Over (DC500V)	connector	Plug housing	SMP-02V (JST)	PAP-02V-S (JST)
Allowable desorption number of times About100 times About100 times Withstanding Voltage AC2200V, 1min. (Between outer case and output) AC2200V, 1min. (Between outer case and output) Insulation Resistance 100MΩ Over (DC500V) 100MΩ Over (DC500V)	Output lead wire		AWG22 155mm	AWG22 155mm
Withstanding Voltage AC2200V, 1min. (Between outer case and output) AC2200V, 1min. (Between outer case and output) Insulation Resistance 100MΩ Over (DC500V) 100MΩ Over (DC500V)	Allowable desorp	tion number of times	About100 times	About100 times
Insulation Resistance 100MΩ Over (DC500V) 100MΩ Over (DC500V)	Withstanding Volt	age	AC2200V, 1min. (Between outer case and output)	AC2200V, 1min. (Between outer case and output)
	Insulation Resista	ance	100MΩ Over (DC500V)	100MΩ Over (DC500V)
Flame retardant grade UL 94 V-0 UL 94 V-0	Flame retardant g	rade	UL 94 V-0	UL 94 V-0

ELECTRICAL CHARACTERISTICS

MEASURING DIAGRAM





OUTPUT VOLTAGE CHARACTERISTIC

A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

SENSORS

CCT series CCT261631 Type

SHAPE & DIMENSIONS



CIRCUIT DIAGRAM

K • k L (Primary side) (Second side)

A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

CCT series CCT261631 Type

SPECIFICATION

Part No. CCT261631-30-06-00 CCT261631-30-06-02 Applied current AC 0.1 to 30Arms (50/60Hz) AC 0.1 to 30Arms (50/60Hz) Maximum allowed current AC 50Arms continuous AC 50Arms continuous Internal clamp section diameter 6mm 6mm			
Applied current AC 0.1 to 30Arms (50/60Hz) AC 0.1 to 30Arms (50/60Hz) Maximum allowed current AC 50Arms continuous AC 50Arms continuous Internal clamp section diameter 6mm 6mm	Part No.	CCT261631-30-06-00	CCT261631-30-06-02
Maximum allowed current AC 50Arms continuous AC 50Arms continuous Internal clamp section diameter 6mm 6mm	Applied current	AC 0.1 to 30Arms (50/60Hz)	AC 0.1 to 30Arms (50/60Hz)
Internal clamp section diameter 6mm 6mm	Maximum allowed current	AC 50Arms continuous	AC 50Arms continuous
	Internal clamp section diameter	6mm	6mm
Nominal current transformation ratio 3000:1 3000:1	Nominal current transformation ratio	3000:1	3000:1
Output current accuracy 10mA±1% (30A, 50/60Hz) 10mA±1% (30A, 50/60Hz)	Output current accuracy	10mA±1% (30A, 50/60Hz)	10mA±1% (30A, 50/60Hz)
Phase difference 3.0°±1.5° (10Ω,30A, 50/60Hz) 3.0°±1.5° (10Ω,30A, 50/60Hz)	Phase difference	3.0°±1.5° (10Ω,30A, 50/60Hz)	3.0°±1.5° (10Ω,30A, 50/60Hz)
Secondary winding resistance 492Ω 492Ω	Secondary winding resistance	492Ω	492Ω
Open-circuit protection 7.5V Clamp element 7.5V Clamp element	Open-circuit protection	7.5V Clamp element	7.5V Clamp element
Output Pin contact SYM-001T-P0.6 (JST) SPAL-001T-P0.5 (JST)	Output Pin contact	SYM-001T-P0.6 (JST)	SPAL-001T-P0.5 (JST)
connector Receptacle housing SMR-02V-B (JST) PALR-02VF (JST)	connector Receptacle housing	SMR-02V-B (JST)	PALR-02VF (JST)
Adaptation Socket contact SHF-001T-0.8BS (JST) SPHD-001T-P0.5 (JST)	Adaptation Socket contact	SHF-001T-0.8BS (JST)	SPHD-001T-P0.5 (JST)
connector Plug housing SMP-02V (JST) PAP-02V-S (JST)	connector Plug housing	SMP-02V (JST)	PAP-02V-S (JST)
Output lead wire AWG22 160mm AWG22 160mm	Output lead wire	AWG22 160mm	AWG22 160mm
Allowable desorption number of times About100 times About100 times	Allowable desorption number of times	About100 times	About100 times
Withstanding Voltage AC2200V, 1min. (Between outer case and output) AC2200V, 1min. (Between outer case and output)	Withstanding Voltage	AC2200V, 1min. (Between outer case and output)	AC2200V, 1min. (Between outer case and output)
Insulation Resistance 100MΩ Over (DC500V) 100MΩ Over (DC500V)	Insulation Resistance	100MΩ Over (DC500V)	100MΩ Over (DC500V)
Flame retardant grade UL 94 V-0 UL 94 V-0	Flame retardant grade	UL 94 V-0	UL 94 V-0

ELECTRICAL CHARACTERISTICS

MEASURING DIAGRAM



OUTPUT VOLTAGE CHARACTERISTIC



A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.