

# ZERTIFIKAT CERTIFICATE

Hiermit wird bescheinigt, dass die Firma / *This is to certify, that the company*

**Elettronica Santerno S.p.A.**  
**Via della Concia 7**  
**40023 Castel Guelfo Di Bologna**  
**Italy**

berechtigt ist, das unten genannte Produkt mit dem abgebildeten Zeichen zu kennzeichnen.  
*is authorized to provide the product described below with the mark as illustrated.*

Geprüft nach  
*Tested in accordance with*

**EN 61508-1:2010**  
**EN 61508-2:2010**  
**EN ISO 13849-1:2008**

Beschreibung des Produktes  
*(Details s. Anlage 1)*  
Description of product  
*(Details see Annex 1)*

**Safe Torque Off (STO-) Function**  
**of the Control Board ES927**

Typbezeichnung  
*Type designation*

**SINUS PENTA, PENTA MARINE, IRIS BLUE**

Fertigungsstätte  
*Manufacturing plant*

**Elettronica Santerno S.p.A.**  
**Via della Concia 7**  
**40023 Castel Guelfo Di Bologna**  
**Italy**



Registrier-Nr. / *Registered No.* 44 207 14177501  
Prüfbericht Nr. / *Test Report No.* 3515 4255  
Aktenzeichen / *File reference* 8000443182

Gültigkeit / *Validity*  
von / *from* 2015-02-20  
bis / *until* 2020-02-19



Zertifizierungsstelle der TÜV NORD CERT GmbH  
*Certification body of TÜV NORD CERT GmbH*

Essen, 2015-02-20

TÜV NORD CERT GmbH Langemarckstraße 20 45141 Essen

[www.tuev-nord-cert.de](http://www.tuev-nord-cert.de)

[machinery@tuev-nord.de](mailto:machinery@tuev-nord.de)

Bitte beachten Sie auch die umseitigen Hinweise  
*Please also pay attention to the information stated overleaf*

# ANLAGE ANNEX

Anlage 1, Seite 1 von 2  
Annex 1, page 1 of 2

zum Zertifikat Registrier-Nr. / to Certificate Registration No. 44 207 14177501

**Produktbeschreibung:**  
*Product description:*

**Keine weiteren.**  
*No further description.*

**Hardware Version:**  
*Hardware Version:*

**ES927B2 vom 18.02.2014**  
**ES927B2 as of 18.02.2014**

**Typenbezeichnung:**  
*Type designation:*

**In folgenden Produktlinien findet das Control Board ES927 mit der implementierten STO-Funktion Anwendung:**  
*The STO-Function on Control Board ES927 is implemented in the following product lines:*

**SINUS PENTA**

SINUS PENTA S05	SINUS PENTA S60
SINUS PENTA S12	SINUS PENTA S64
SINUS PENTA S14	SINUS PENTA S65
SINUS PENTA S15	SINUS PENTA S70
SINUS PENTA S20	SINUS PENTA S74
SINUS PENTA S22	SINUS PENTA S75
SINUS PENTA S30	SINUS PENTA S80
SINUS PENTA S32	SINUS PENTA S84
SINUS PENTA S41	SINUS PENTA S90
SINUS PENTA S42	
SINUS PENTA S51	
SINUS PENTA S52	



Zertifizierungsstelle der TÜV NORD CERT GmbH  
Certification body of TÜV NORD CERT GmbH

Essen, 2015-02-20

# ANLAGE ANNEX

Anlage 1, Seite 2 von 2  
Annex 1, page 2 of 2

zum Zertifikat Registrier-Nr. / to Certificate Registration No. 44 207 14177501

**Typenbezeichnung:**  
Type designation:

## PENTA MARINE

PENTA MARINE S05	PENTA MARINE S60
PENTA MARINE S12	PENTA MARINE S64
PENTA MARINE S14	PENTA MARINE S65
PENTA MARINE S15	PENTA MARINE S70
PENTA MARINE S20	PENTA MARINE S74
PENTA MARINE S22	PENTA MARINE S75
PENTA MARINE S30	PENTA MARINE S80
PENTA MARINE S32	PENTA MARINE S84
PENTA MARINE S41	PENTA MARINE S90
PENTA MARINE S42	
PENTA MARINE S51	
PENTA MARINE S52	

## IRIS BLUE

IRIS BLUE S05	IRIS BLUE S60
IRIS BLUE S12	IRIS BLUE S64
IRIS BLUE S14	IRIS BLUE S65
IRIS BLUE S15	IRIS BLUE S70
IRIS BLUE S20	IRIS BLUE S74
IRIS BLUE S22	IRIS BLUE S75
IRIS BLUE S30	IRIS BLUE S80
IRIS BLUE S32	IRIS BLUE S84
IRIS BLUE S41	IRIS BLUE S90
IRIS BLUE S42	
IRIS BLUE S51	
IRIS BLUE S52	



Zertifizierungsstelle der TÜV NORD CERT GmbH  
Certification body of TÜV NORD CERT GmbH

Essen, 2015-02-20

## СЕРТИФИКАТ СООТВЕТСТВИЯ



№ ТС RU C-IT.MO10.B.03438

Серия RU № 0658958

**ОРГАН ПО СЕРТИФИКАЦИИ** Общество с ограниченной ответственностью «ЦЕНТР-СТАНДАРТ». Место нахождения: 119119, Российская Федерация, город Москва, Ленинский проспект, дом 42, корпус 1-2-3, этаж 1, помещение 1, комната 35. Адрес места осуществления деятельности: 117405, Российская Федерация, город Москва, улица Кирпичные Выемки, дом 2, корпус 1, 3-й этаж, комната № 11. Телефон: +7 (495) 664-23-98, адрес электронной почты: info@standart-centr.ru. Аттестат аккредитации регистрационный № RA.RU.11MO10. Дата регистрации аттестата аккредитации: 20.08.2015 года

**ЗАЯВИТЕЛЬ** Общество с ограниченной ответственностью «ДС Компания». Основной государственный регистрационный номер: 1107746937374. Место нахождения: 105037, Российская Федерация, город Москва, улица 3-я Парковая, дом 9, квартира 18. Телефон: 79295245611, адрес электронной почты: dc.company2000@gmail.com

**ИЗГОТОВИТЕЛЬ** Elettronica Santerno S.p.A. Место нахождения: ИТАЛИЯ, Via della Concia, 7, 40023 Castel Guelfo (BO)

**ПРОДУКЦИЯ** Инверторы (преобразователи частоты), торговой марки Elettronica Santerno, моделей: SINUS K LIFT, SINUS K, SINUS K BOX, SINUS K CABINET, SINUS PENTA, SINUS PENTA BOX, SINUS PENTA CABINET, SINUS PENTA MV CABINET, REMOTE DRIVE, SUNWAY M XS, SUNWAY M PLUS, SUNWAY TG, SUNWAY TG TE, SUNWAY STATION, SUNWAY SKID, METEO CENTER, SUNWAY STRING BOX, SUNWAY SMART STRING BOX, SOLARDRIVE PLUS, BU (Braking Unit), EU 850, REMOTE SUNWAY, IRIS BLUE, IRIS BLUE BOX, IRIS BLUE CABINET, SU (Supply Unit), AC-DC Unit, IRIS CONTROL, MOTORS.

Продукция изготовлена в соответствии с Директивами 2014/35/ЕС «Низковольтное оборудование», 2014/30/ЕС «Электромагнитная совместимость». Серийный выпуск

КОД ТН ВЭД ТС 8504 40 550 0

**СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ** Технического регламента Таможенного союза ТР ТС 004/2011 "О безопасности низковольтного оборудования"; Технического регламента Таможенного союза ТР ТС 020/2011 "Электромагнитная совместимость технических средств"

**СЕРТИФИКАТ ВЫДАН НА ОСНОВАНИИ** протоколов испытаний №№ 763-1, 763-2 от 14.02.2018 года, выданных испытательной лабораторией Общества с ограниченной ответственностью "Научное производственное объединение "ВитроПак", аттестат аккредитации регистрационный номер № RA.RU.21AC83; акта анализа состояния производства от 07.02.2018 года органа по сертификации продукции Общества с ограниченной ответственностью «ЦЕНТР-СТАНДАРТ»; руководства по эксплуатации; паспорта.

Схема сертификации: 1с

**ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ** Срок службы, срок и условия хранения указаны в эксплуатационной документации, приложенной к изделию. Стандарты, обеспечивающие соблюдение требований Технических регламентов Таможенного союза ТР ТС 004/2011 "О безопасности низковольтного оборудования", ТР ТС 020/2011 "Электромагнитная совместимость технических средств" (смотри приложение - бланк № 0471725).

**СРОК ДЕЙСТВИЯ** С 15.02.2018 ПО 14.02.2023 **ВКЛЮЧИТЕЛЬНО**



Руководитель (уполномоченное лицо) органа по сертификации

Эксперт (эксперт-аудитор) (эксперты (эксперты-аудиторы))

(подпись)

(подпись)

Евгений Николаевич Ушаков  
(инициалы, фамилия)

Василий Андреевич Туканов  
(инициалы, фамилия)

## ПРИЛОЖЕНИЕ

К СЕРТИФИКАТУ СООТВЕТСТВИЯ № ТС RU C-IT.MO10.B.03438

Серия RU № **0471725**

Стандарты, обеспечивающие соблюдение требований Технических регламентов Таможенного союза ТР ТС 004/2011 "О безопасности низковольтного оборудования"; ТР ТС 020/2011 "Электромагнитная совместимость технических средств":  
ГОСТ 30804.3.2-2013 "Совместимость технических средств электромагнитная. Эмиссия гармонических составляющих тока техническими средствами с потребляемым током не более 16 А (в одной фазе). Нормы и методы испытаний",  
ГОСТ 30804.3.3-2013 "Совместимость технических средств электромагнитная. Ограничение изменений напряжения, колебаний напряжения и фликера в низковольтных системах электроснабжения общего назначения. Технические средства с потребляемым током не более 16 А (в одной фазе), подключаемые к электрической сети при несоблюдении определенных условий подключения. Нормы и методы испытаний",  
ГОСТ 30805.14.1-2013 "Совместимость технических средств электромагнитная. Бытовые приборы, электрические инструменты и аналогичные устройства. Радиопомехи промышленные. Нормы и методы измерений",  
ГОСТ 30805.14.2-2013 "Совместимость технических средств электромагнитная. Бытовые приборы, электрические инструменты и аналогичные устройства. Устойчивость к электромагнитным помехам. Требования и методы испытаний",  
ГОСТ IEC 60335-1-2015 "Бытовые и аналогичные электрические приборы. Безопасность. Часть 1. Общие требования"



Руководитель (уполномоченное  
лицо) органа по сертификации  
Эксперт-аудитор (эксперт)

  
подпись  
  
подпись

Евгений Николаевич Ушаков  
инициалы, фамилия  
Василий Андреевич Туканов  
инициалы, фамилия

# DECLARATION OF CONFORMITY

Elektronica Santerno S.p.A.

Via della Concia, 7 – Castel Guelfo (BO) - ITALY

as a Manufacturer

## DECLARES

under its sole responsibility that the Variable Frequency Drives of the **Sinus Penta** line:

SINUS PENTA S05	SINUS PENTA S50
SINUS PENTA S12	SINUS PENTA S51
SINUS PENTA S14	SINUS PENTA S52
SINUS PENTA S15	SINUS PENTA S60
SINUS PENTA S20	SINUS PENTA S64
SINUS PENTA S22	SINUS PENTA S65
SINUS PENTA S30	SINUS PENTA S70
SINUS PENTA S32	SINUS PENTA S74
SINUS PENTA S40	SINUS PENTA S75
SINUS PENTA S41	SINUS PENTA S80
SINUS PENTA S42	SINUS PENTA S84
	SINUS PENTA S90

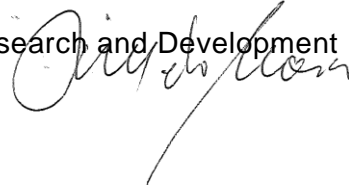
which this declaration relates to, when applied under the operating conditions given in the User Manual, comply with the CDM class IE2: losses more than 25% lower than RCDM value, according to the provisions of the following standard:

IEC 61800-9-2	Adjustable speed electrical power drive systems – Part 9-2: Ecodesign for power drive systems, motor starters, power electronics and their driven applications – Energy efficiency indicators for power drive systems and motor starters
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Castel Guelfo, 22 March 2017

Riccardo Morici

Research and Development Manager



# EU DECLARATION OF CONFORMITY

Elettronica Santerno S.p.A.

Via della Concia, 7 – Castel Guelfo (BO) - ITALY

as a Manufacturer

DECLARES

under its sole responsibility that the Variable Frequency Drives of the **SINUS PENTA** series with related accessories and options:

SINUS PENTA		
SINUS PENTA S05	SINUS PENTA S42	SINUS PENTA S60
SINUS PENTA S12	SINUS PENTA S43	SINUS PENTA S60P
SINUS PENTA S14	SINUS PENTA S44	SINUS PENTA S64
SINUS PENTA S15	SINUS PENTA S50	SINUS PENTA S65
SINUS PENTA S20	SINUS PENTA S51	SINUS PENTA S70
SINUS PENTA S22	SINUS PENTA S52	SINUS PENTA S74
SINUS PENTA S30	SINUS PENTA S53	SINUS PENTA S75
SINUS PENTA S32	SINUS PENTA S54	SINUS PENTA S80
SINUS PENTA S40	SINUS PENTA S55	SINUS PENTA S84
SINUS PENTA S41	SINUS PENTA S56	SINUS PENTA S90

which this declaration relates to, when applied under the operating conditions given in the User Manual comply with the following standards:

EN 61800-5-1:2007	Adjustable speed electrical power drive systems - Part 5-1: Safety requirements - Electrical, thermal and energy
EN 61800-3:2004 EN 61800-3/A1:2012	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods

following the provisions of **Low Voltage Directive 2014/35/EU** and **Electromagnetic Compatibility Directive 2014/30/EU**

Castel Guelfo, 24 July 2018

Roberto Molteni

Technical Director



# EU DECLARATION OF CONFORMITY

Elettronica Santerno S.p.A.

Via della Concia, 7 – Castel Guelfo (BO) - ITALY

as a Manufacturer

DECLARES

under its sole responsibility that the Variable Frequency Drives for solar pumping applications of the **SOLARDRIVE PLUS BOX** and **SOLARDRIVE PLUS CABINET** series with related accessories and options:

SOLARDRIVE PLUS BOX	
SOLARDRIVE PLUS BOX 0018	SOLARDRIVE PLUS BOX 0024
SOLARDRIVE PLUS BOX 0021	SOLARDRIVE PLUS BOX 0032
SOLARDRIVE PLUS CABINET	
SOLARDRIVE PLUS CABINET 0051	SOLARDRIVE PLUS CABINET 0201
SOLARDRIVE PLUS CABINET 0069	SOLARDRIVE PLUS CABINET 0259
SOLARDRIVE PLUS CABINET 0088	SOLARDRIVE PLUS CABINET 0401
SOLARDRIVE PLUS CABINET 0164	

which this declaration relates to, when applied under the operating conditions given in the User Manual comply with the following standards:

EN 61000-6-2:2005 EN 61000-6-2/Corr.2005	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments
EN 61000-6-4:2007 EN 61000-6-4/A1:2011	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
EN 50178:1997	Electronic equipment for use in power installations
EN 61439-2:2011	Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies

following the provisions of **Low Voltage Directive 2014/35/EU** and **Electromagnetic Compatibility Directive 2014/30/EU**

Castel Guelfo, 24 July 2018

Roberto Molteni

Technical Director





## EU DECLARATION OF CONFORMITY

Eletronica Santerno S.p.A.

Via della Concia, 7 – Castel Guelfo (BO) - ITALY

as a Manufacturer

DECLARES

under its sole responsibility that the Variable Frequency Drives for solar pumping applications of the **SOLARDRIVE PLUS** series with related accessories and options:

SOLARDRIVE PLUS	
SOLARDRIVE PLUS 0018	SOLARDRIVE PLUS 0088
SOLARDRIVE PLUS 0021	SOLARDRIVE PLUS 0164
SOLARDRIVE PLUS 0024	SOLARDRIVE PLUS 0201
SOLARDRIVE PLUS 0032	SOLARDRIVE PLUS 0259
SOLARDRIVE PLUS 0051	SOLARDRIVE PLUS 0401
SOLARDRIVE PLUS 0069	

which this declaration relates to, when applied under the operating conditions given in the User Manual comply with the following standards:

EN 61000-6-2:2005 EN 61000-6-2/Corr.2005	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments
EN 61000-6-4:2007 EN 61000-6-4/A1:2011	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
EN 50178:1997	Electronic equipment for use in power installations

following the provisions of **Low Voltage Directive 2014/35/EU** and **Electromagnetic Compatibility Directive 2014/30/EU**

Castel Guelfo, 24 July 2018

Roberto Molteni

Technical Director





**QPS Evaluation Services Inc**  
Testing, Certification and Field Evaluation Body  
Accredited in Canada, the USA, and Internationally

File  
LR1139

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**CERTIFICATE OF COMPLIANCE**  
**(ISO TYPE 3 CERTIFICATION SYSTEM)**

Issued to	Elettronica Santerno S.p.A.
Address	Via. Della Concia 7 40023 Castel Guelfo, Bologna Italy
Project Number	LR1139-3R1
Product	<b>PART A: MOTOR DRIVES</b> <b>PART B: REGENERATIVE DRIVES</b> <b>PART C: REGENERATIVE INTERFACE BOX</b>
Model Number	Refer to the following pages
Ratings	Refer to the following pages
Applicable Standards	Refer to Page 4
Factory/Manufacturing Location	Same as Applicant

**Statement of Compliance:** The product(s) identified in this Certificate and described in the Report covered under the above referenced project number have been investigated and found to be in compliance with the relevant requirements of the above referenced standard(s). As such, they are eligible to bear the QPS Certification Mark shown below, in accordance with the provisions of QPS's Service Agreement



Issued By: Joseph Petilla

Signature:

Date: August 9, 2016



**Project Number:** LR1139-3R1

## CERTIFICATE OF COMPLIANCE

### (ISO TYPE 3 CERTIFICATION SYSTEM)

**Product:**

**PART A: MOTOR DRIVES** (Open-type Inverters, "SINUS PENTA" Series), Model Numbers as noted below with electrical ratings as indicated in the following pages, for indoor use in a suitable enclosure to maintain Pollution Degree 2 and protected by external, line-side approved fuses as specified herein.

- Size S74, Model Nos. 0964 4C, 1130 4C, 1296 4C, 0964 5C, 1130 5C, 1296 5C, 0964 6C, 1130 6C, 1296 6C
- Size S75, Model Nos. 0964 4T, 1130 4T, 1296 4T, 0964 5T, 1130 5T, 0964 6T, 1130 6T
- Size S80, Model Nos. 1296 5T, 1296 6T
- Size S84, Model Nos. 1800 4C, 2076 4C, 1800 5C, 2076 5C, 1800 6C, 2076 6C
- Size S90, Model Nos. 1800 4T, 2076 4T, 1800 5T, 2076 5T, 1800 6T, 2076 6T

**PART B: REGENERATIVE DRIVES** (Open-type Inverters with regenerative function, "SINUS PENTA" Series), Model Numbers as noted below with electrical ratings as indicated in the following pages, for indoor use in a suitable enclosure to maintain Pollution Degree 2 and protected by external, line-side approved fuses as specified herein.

- Size S05, Model Nos. 0007 2T, 0008 2T, 0010 2T, 0013 2T, 0015 2T, 0016 2T, 0020 2T, 0005 4T, 0007 4T, 0009 4T, 0011 4T, 0014 4T
- Size S12, Model Nos. 0023 2T, 0033 2T, 0037 2T, 0016 4T, 0017 4T, 0020 4T, 0025 4T, 0030 4T, 0034 4T, 0036 4T, 0003 5T, 0004 5T, 0006 5T, 0012 5T, 0018 5T
- Size S14, Model Nos. 0019 5T, 0021 5T, 0022 5T, 0024 5T, 0032 5T, 0003 6T, 0004 6T, 0006 6T, 0012 6T, 0018 6T, 0019 6T, 0021 6T, 0022 6T, 0024 6T, 0032 6T
- Size S15, Model Nos. 0038 2T, 0040 2T, 0049 2T, 0038 4T, 0040 4T, 0049 4T
- Size S20, Model Nos. 0060 2T, 0067 2T, 0074 2T, 0086 2T, 0060 4T, 0067 4T, 0074 4T, 0086 4T
- Size S22, Model Nos. 0042 5T, 0051 5T, 0062 5T, 0069 5T, 0042 6T, 0051 6T, 0062 6T, 0069 6T
- Size S30, Model Nos. 0113 2T, 0129 2T, 0150 2T, 0162 2T, 0113 4T, 0129 4T, 0150 4T, 0162 4T
- Size S32, Model Nos. 0076 5T, 0088 5T, 0131 5T, 0164 5T, 0076 6T, 0088 6T, 0131 6T, 0164 6T
- Size S40, Model Nos. 0179 2T, 0200 2T, 0216 2T, 0250 2T, 0179 4T, 0200 4T, 0216 4T, 0250 4T
- Size S41, Model Nos. 0180 2T, 0202 2T, 0217 2T, 0260 2T, 0180 4T, 0202 4T, 0217 4T, 0260 4T
- Size S42, Model Nos. 0062 5T, 0069 5T, 0076 5T, 0088 5T, 0131 5T, 0164 5T, 0181 5T, 0201 5T, 0218 5T, 0259 5T, 0062 6T, 0069 6T, 0076 6T, 0088 6T, 0131 6T, 0164 6T, 0181 6T, 0201 6T, 0218 6T, 0259 6T
- Size S50, Model Nos. 0312 2T, 0366 2T, 0399 2T, 0312 4T, 0366 4T, 0399 4T
- Size S51, Model Nos. 0313 2T, 0367 2T, 0402 2T, 0313 4T, 0367 4T, 0402 4T
- Size S52, Model Nos. 0290 5T, 0314 5T, 0368 5T, 0401 5T, 0290 6T, 0314 6T, 0368 6T, 0401 6T
- Size S60, Model Nos. 0457 2T, 0524 2T, 0457 4T, 0524 4T
- Size S64, Model Nos. 0598 4T, 0748 4T, 0831 4T, 0250 5T, 0312 5T, 0366 5T, 0399 5T, 0457 5T, 0524 5T, 0598 5T, 0748 5T, 0831 5T, 0250 6T, 0312 6T, 0366 6T, 0399 6T, 0457 6T, 0524 6T, 0598 6T, 0748 6T, 0831 6T



**QPS Evaluation Services Inc**  
Testing, Certification and Field Evaluation Body  
Accredited in Canada, the USA, and Internationally

File

LR1139

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**Project Number:** LR1139-3R1

**CERTIFICATE OF COMPLIANCE**  
**(ISO TYPE 3 CERTIFICATION SYSTEM)**

- Size S74, Model Nos. 0964 4T, 1130 4T, 1296 4T, 0964 5T, 1130 5T, 1296 5T, 0964 6C, 1130 6T, 1296 6T
- Size S84, Model Nos. 1800 4T, 2076 4T, 1800 5T, 2076 5T, 1800 6T, 2076 6T

**PART C: REGENERATIVE INTERFACE BOX**, Open-type, and Model Numbers as noted below with electrical ratings as indicated in in the following pages, for indoor use in a suitable enclosure to maintain Pollution Degree 2.

- Size P010, Model Nos. 0014 2T-4T, 0035 2T-4T, 0049 2T-4T, 0067 2T-4T, 0086 2T-4T, 0012 5T-6T, 0021 5T-6T, 0024 5T-6T, 0042 5T-6T, 0069 5T-6T
- Size P020, Model Nos. 0162 2T-4T, 0250 2T-4T, 0172 5T-6T
- Size P030, Model Nos. 0260 2T-4T, 0399 2T-4T, 0598 2T-4T, 0831 2T-4T, 0088 5T-6T, 0259 5T-6T, 0312 5T-6T, 0457 5T-6T, 0831 5T-6T

**Applicable Standards:**

The PART A, Motor Drives (Open-type Inverters) were evaluated to the following standards:

- CSA C22.2 No. 14-13: Industrial control equipment - Twelfth Edition
- UL 508C: UL Standard for Safety Power Conversion Equipment - Third Edition; Reprint with Revisions Through and Including November 09, 2010

The PART B, Regenerative Drives (Open-type Inverters with regenerative function) were evaluated to the following standards:

- CSA C22.2 No. 107.1-01: General Use Power Supplies - Third Edition
- CSA C22.2 No. 14-13: Industrial control equipment - Twelfth Edition
- UL 1741: UL Standard for Safety Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources - Second Edition; Reprint with revisions through and including January 7, 2015
- UL 508C: UL Standard for Safety Power Conversion Equipment - Third Edition; Reprint with Revisions Through and Including November 09, 2010

The PART C, Interface Box (Open-type) were evaluated to the following standards as accessories to be used with Regenerative drives for intended application:

- CSA C22.2 No. 107.1-01: General Use Power Supplies - Third Edition
- UL 1741: UL Standard for Safety Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources - Second Edition; Reprint with revisions through and including January 7, 2015