



Lloyd's
Register

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

PRODUCER

Schneider Electric / Schneider Automation SAS
ZI Carros, 8eme Rue
06516 Carros
France

DESCRIPTION

Modular Distributed I/O System
Digital Input STB Modules, Digital Output STB Modules, Analog Input STB Modules, Analog Output STB Modules, Expert Modules (Speciality and Device I/O), Bus Extension Modules, FieldBus Couplers, Power Supply/Distribution System, Connection Kits, Bases, Accessories

TYPES

Digital Input STB Modules

STBDAI5230	115VAC IN 2PT 3WIRE FIXED
STBDAI5230K	115VAC IN 2PT KIT CONNS
STBDAI5230KC	115VAC IN 2PT KIT CLAMP CONN, BASE
STBDAI5230KS	115VAC IN 2PT KIT SCREW CONN, BASE
STBDAI5260	115VAC IN 2PT ISOLATED FIXED
STBDAI5260K	115VAC IN 2PT ISOLATED KIT CONNS,BASE
STBDAI5260KC	115VAC IN 2PT ISOLATED KIT CLAMP,BASE
STBDAI5260KS	115VAC IN 2PT ISOLATED KIT SCREW,BASE
STBDAI7220	230VAC IN 2PT 3WIRE FIXED
STBDAI7220K	230VAC IN 2PT KIT CONNS
STBDAI7220KC	230VAC IN 2PT KIT CLAMP CONN,BASE
STBDAI7220KS	230VAC IN 2PT KIT SCREW CONN,BASE
STBDDI3230	DC Input, 24VDC Sink, 2 pt, Type 2, 4WPS

Certificate No.

16/20015

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Sheet

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Hamburg Technical Support Office
Lloyd's Register EMEA

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TYPES (continues)

STBDDI3230K	24VDC IN 2PT KIT CONNS
STBDDI3230KC	24VDC IN 2PT KIT CLAMP CONN, BASE
STBDDI3230KS	24VDC IN 2PT KIT SCREW CONN, BASE
STBDDI3420	DC Input, 24VDC Sink, 4 pt, Type 1+, 3WPS
STBDDI3420K	24VDC IN 4PT KIT CONNS, BASE
STBDDI3420KC	24VDC IN 4PT KIT CLAMP CONN, BASE
STBDDI3420KS	24VDC IN 4PT KIT SCREW CONN, BASE
STBDDI3425	DC Input, 24VDC Sink, 4 pt
STBDDI3425K	24VDC IN 4PT BASIC KIT CONNS,BASE
STBDDI3425KC	24VDC IN 4PT BASIC KIT CLAMP CONN,BASE
STBDDI3425KS	24VDC IN 4PT BASIC KIT SCREW CONN,BASE
STBDDI3610	DC Input, 24VDC Sink, 6 pt, Type 1, 2WPS
STBDDI3610K	24VDC IN 6PT KIT CONNS,BASE
STBDDI3610KC	24VDC IN 6PT KIT CLAMP CONN, BASE
STBDDI3610KS	24VDC IN 6PT KIT SCREW CONN, BASE
STBDDI3615	DC Input, 24VDC Sink, 6 pt
STBDDI3615K	24VDC IN 6PT BASIC KIT CONNS,BASE
STBDDI3615KC	24VDC IN 6PT BASIC KIT CLAMP CONN,BASE
STBDDI3615KS	24VDC IN 6PT BASIC KIT SCREW CONN,BASE
STBDDI3725	24VDC IN 16PT SINK BASIC 2 WIRE
STBDDI3725KC	24VDC IN 16PT BASIC KIT CLAMP,BASE
STBDDI3725KS	24VDC IN 16PT BASIC KIT SCREW,BASE

Digital Output STB Modules

STBDAO5260	115VAC OUT 2PT 2A ISOLATED
STBDAO5260K	115VAC OUT 2PT ISOLATED KIT CONNS,BASE
STBDAO5260KC	115VAC OUT 2PT ISOLATED KIT CLAMP,BASE
STBDAO5260KS	115VAC OUT 2PT ISOLATED KIT SCREW,BASE
STBDAO8210K	115/230VAC OUT 2PT KIT
STBDAO8210KC	115/230VAC OUT 2PT KIT CLAMP CONN,BASE
STBDAO8210KS	115/230VAC OUT 2PT KIT SCREW CONN,BASE
STBDAO8210	AC Output, 120/230VAC, 2 pt

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TYPES (continues)

STBDDO3200	DC Output, 24VDC Source, 2 pt, 0.5 Amp, OCP
STBDDO3200K	24VDC OUT 2PT 0.5A KIT
STBDDO3200KC	24VDC OUT 2PT 0.5A KIT CLAMP CONN,BASE
STBDDO3200KS	24VDC OUT 2PT 0.5A KIT SCREW CONN,BASE
STBDDO3230	DC Output, 24VDC Source, 2 pt, 2.5 Amp
STBDDO3230K	24VDC OUT 2PT 2.0A KIT
STBDDO3230KC	24VDC OUT 2PT 2.0A KIT CLAMP CONN,BASE
STBDDO3230KS	24VDC OUT 2PT 2.0A KIT SCREW CONN,BASE
STBDDO3410	DC Output, 24VDC Source, 4 pt, 0.5 Amp, OCP
STBDDO3410K	24VDC OUT 4PT KIT CONNS
STBDDO3410KC	24VDC OUT 4PT KIT CLAMP CONN,BASE
STBDDO3410KS	24VDC OUT 4PT KIT SCREW CONN,BASE
STBDDO3415	DC Output, 24VDC Source, 4 pt, 0.25A
STBDDO3415K	24VDC OUT 4PT BASIC KIT
STBDDO3415KC	24VDC OUT 4PT BASIC KIT CLAMP CONN,BASE
STBDDO3415KS	24VDC OUT 4PT BASIC KIT SCREW CONN,BASE
STBDDO3600	DC Output, 24VDC Source, 6 pt, 0.5 Amp
STBDDO3600K	24VDC OUT 6PT KIT CONNS,BASE
STBDDO3600KC	24VDC OUT 6PT KIT CLAMP, BASE
STBDDO3600KS	24VDC OUT 6PT KIT SCREW, BASE
STBDDO3605	DC Output, 24VDC Source, 6 pt, 0.25A
STBDDO3605K	24VDC OUT 6PT BASIC KIT CONNS,BASE
STBDDO3605KC	24VDC OUT 6PT BASIC KIT CLAMP, BASE
STBDDO3605KS	24VDC OUT 6PT BASIC KIT SCREW, BASE
STBDDO3705	24VDC OUT 16PT SOURCE BASIC 0.5A
STBDDO3705KC	24VDC OUT 16PT BASIC KIT CLAMP,BASE
STBDDO3705KS	24VDC OUT 16PT BASIC KIT SCREW,BASE
STBDRA3290	RELAY OUT 2pt form A/B 7A 24v coil
STBDRA3290K	RELAY OUT 2PT 7A 24V KIT CONNS,BASE
STBDRA3290KC	RELAY OUT 2PT 7A 24V KIT CLAMP CONN,BASE

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STBDRA3290KS	RELAY OUT 2PT 7A 24V KIT SCREW CONN,BASE
STBDRC3210	RELAY OUT 2pt form C 2A 24v coil
STBDRC3210K	RELAY OUT 2PT 2A 24V KIT CONNS,BASE
STBDRC3210KC	RELAY OUT 2PT 2A 24V KIT CLAMP CONN,BASE
STBDRC3210KS	RELAY OUT 2PT 2A 24V KIT SCREW CONN,BASE

Analog Input STB Modules

STBACI0320	ANALOG C IN 4CH 4-20MA 16 BIT
STBACI0320K	ANALOG C IN 4CH,4-20MA KIT CONNS,BASE
STBACI0320KC	ANALOG C IN 4CH, 4-20 MA KIT CLAMP, BASE
STBACI0320KS	ANALOG C IN 4CH, 4-20 MA KIT SCREW, BASE
STBACI1225	Analog Current In, 2 Channel, 4-20mA, 10 bit
STBACI1225K	ANALOG C IN 2CHBASIC4-20AKIT CONNS,BASE
STBACI1225KC	ANALOG C IN 2CHBASIC4-20MAKIT CLAMP,BASE
STBACI1225KS	ANALOG C IN 2CHBASIC4-20MAKIT SCREW,BASE
STBACI1230	Analog Current In, 2 channels, 12bit, 0..20mA
STBACI1230K	ANALOG C IN 2CH 0-20MA KIT CONNS,BASE
STBACI1230KC	ANALOG C IN 2CH 0-20MA KIT CLAMP, BASE
STBACI1230KS	ANALOG C IN 2CH 0-20MA KIT SCREW, BASE
STBACI1400	ANALOG C IN 8 CH, 16 BIT SINGLE ENDED
STBACI1400K	ANALOG C IN 8CH KIT CONNS,BASE
STBACI1400KC	ANALOG C IN 8CH KIT CLAMP CONN BASE
STBACI1400KS	ANALOG C IN 8CH KIT SCREW CONN BASE
STBACI8320	ANALOG C IN 4CH HART 4-20MA 16 BIT
STBACI8320K	ANALOG C IN 4CH HART KIT CONNS,BASE
STBACI8320KC	ANALOG C IN 4CH HART KIT CLAMP,BASE

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TYPES (continues)

STBACI8320KS	ANALOG C IN 4CH HART KIT SCREW, BASE
STBART0200	Analog Multirange In, 2 channels, 14bit isolated
STBART0200K	ANALOG IN 2CH RTD/TC/MV KIT
	CONNS,BASE
STBART0200KC	ANALOG IN 2CH RTD/TC/MV KIT CLAMP,
	BASE
STBART0200KS	ANALOG IN 2CH RTD/TC/MV KIT SCREW,
	BASE
STBAVI0300	ANALOG V IN 4 CH, VOLT 16 BIT
STBAVI0300K	ANALOG V IN 4CH KIT CONNS,BASE
STBAVI0300KC	ANALOG V IN 4CH KIT CLAMP CONN BASE
STBAVI0300KS	ANALOG V IN 4CH KIT SCREW CONN BASE
STBAVI1255	Analog Voltage In, 2 Channel, 0-10V, 10 bit
STBAVI1255K	ANALOG 0-10V IN 2CH BASE KIT CONNS,BASE
STBAVI1255KC	ANALOG 0-10V IN 2CH BASIC KIT CLAMP, BAS
STBAVI1255KS	ANALOG 0-10V IN 2CH BASIC KIT SCREW, BAS
STBAVI1270	Analog Voltage In, 2 channels, 12bit, 0..10V
STBAVI1270K	ANALOG -/+10V IN 2CH KIT
STBAVI1270KC	ANALOG -/+10V IN 2CH KIT CLAMP CONN,
	BAS
STBAVI1270KS	ANALOG -/+10V IN 2CH KIT SCREW CONN,
	BAS
STBAVI1275	Analog Voltage In, 2 Channel, +/-10V, 10 bit
STBAVI1275K	ANALOG-/+10V IN 2CH BASE KIT CONNS,BASE
STBAVI1275KC	ANALOG-/+10V IN 2CH BASIC KIT CLAMP,
	BAS
STBAVI1275KS	ANALOG-/+10V IN 2CH BASIC KIT SCREW, BAS
STBAVI1400	ANALOG V IN 8CH, 16 BIT SINGLE ENDED
STBAVI1400K	ANALOG V IN 8CH KIT CONNS,BASE
STBAVI1400KC	ANALOG V IN 8CH KIT CLAMP CONN BASE
STBAVI1400KS	ANALOG V IN 8CH KIT SCREW CONN BASE

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TYPES (continues)

Analog Output STB Modules

STBACO0120	ANALOG C OUT 1 CH, 4-20MA 16 BIT
STBACO0120K	ANALOG C OUT 1CH KIT CONNS,BASE
STBACO0120KC	ANALOG C OUT 1CH KIT CLAMP CONN BASE
STBACO0120KS	ANALOG C OUT 1CH KIT SCREW CONN BASE
STBACO0220	ANALOG C OUT 2CH 4-20MA 16 BIT
STBACO0220K	ANALOG C OUT 2CH 16 BIT KIT CONNS, BASE
STBACO0220KC	ANALOG C OUT 2CH 16 BIT KIT CLAMP,BASE
STBACO0220KS	ANALOG C OUT 2CH 16 BIT KIT SCREW,BASE
STBACO1210	Analog Current Out, 2 channels, 12Bit, 0..20mA
STBACO1210K	ANALOG C OUT 2CH 0-20MA KIT CONNS,BASE
STBACO1210KC	ANALOG C OUT 2CH 0-20MA KIT CLAMP,BASE
STBACO1210KS	ANALOG C OUT 2CH 0-20MA KIT SCREW,BASE
STBACO1225	Analog Current Out, 2 Channel, 4-20mA, 10bit
STBACO1225K	ANALOG C OUT 2CHBASIC4-20 KIT CONNS,BASE
STBACO1225KC	ANALOG C OUT 2CHBASIC4-20 KIT CLAMP,BASE
STBACO1225KS	ANALOG C OUT 2CHBASIC4-20 KIT SCREW,BASE
STBAVO0200	ANALOG V OUT 2 CH, VOLT 16 BIT
STBAVO0200K	ANALOG V OUT 2CH KIT CONNS,BASE
STBAVO0200KC	ANALOG V OUT 2CH KIT CLAMP CONN,BASE
STBAVO0200KS	ANALOG V OUT 2CH KIT SCREW CONN,BASE
STBAVO1250	Analog Voltage Out, 2 channels, 12Bit, 0..10V
STBAVO1250	ANALOG-/+10V OUT 2CH KIT CONNS,BASE
STBAVO1250K	ANALOG-/+10V OUT 2CH KIT CONNS,BASE
STBAVO1250KC	ANALOG -/+10V OUT 2CH KIT CLAMP, BASE
STBAVO1250KS	ANALOG -/+10V OUT 2CH KIT SCREW, BASE

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TYPES (continues)

STBAVO1255	Analog Voltage Out, 2 Channel, 0-10V, 10 bit
STBAVO1255K	ANALOG 0-10V OUT 2CHBASIC KIT CONNS,BASE
STBAVO1255KC	ANALOG 0-10V OUT 2CHBASIC KIT CLAMP,BASE
STBAVO1255KS	ANALOG 0-10V OUT 2CHBASIC KIT SCREW,BASE
STBAVO1265	Analog Voltage Out, 2 Channel, +/-10V, 10 bit
STBAVO1265K	ANALOG-/+10V OUT 2CHBASIC KIT CONNS,BASE
STBAVO1265KC	ANALOG-/+10V OUT 2CHBASIC KIT CLAMP,BASE
STBAVO1265KS	ANALOG-/+10V OUT 2CHBASIC KIT SCREW,BASE

Expert Modules (Speciality and Device I/O)

STBEHC3020	High Speed Counter, Incremental, to 40kHz
STBEHC3020KC	HIGH SPEED CNTR 1CH 40KHZ KIT CLAMP,BASE
STBEPI1145	Tego Power 16in/8out I/F
STBEPI1145k	TEGO POWER 16IN/8OUT I/F KIT WITH BASE
STBEPI2145	Ultima 12in/8out prewiring I/F
STBEPI2145K	TESYS TYPE U 12IN/8OUT KIT WITH BASE

Bus Extension Modules

STBXBA2100	AUXP/S BASE 18MM
STBXBE1000	EOS Extension Module
STBXBE1100	EOS EXTENSION MODULE
STBXBE1100K	EOS MODULE PREF DEVICES KIT CONNS,BASE
STBXBE1100KC	EOS MODULE PREF DEVICES KIT CLAMP,BASE
STBXBE1100KS	EOS MODULE PREF DEVICES KIT SCREW,BASE

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TYPES (continues)

STBXBE1200	BOS Extension Module
STBXBE1300	BOS EXTENSION MODULE
STBXBE1300K	BOS MODULE PREF DEVICES KIT CONNS,BASE
STBXBE1300KC	BOS MODULE PREF DEVICES KIT CLAMP,BASE
STBXBE1300KS	BOS MODULE PREF DEVICES KIT SCREW,BASE
STBXBE2100	CanOpen Extension Module
STBXBE2100K	CANOPEN EXTENSION MODULE KIT CONNS,BASE
STBXBE2100KC	CANOPEN EXTENSION MODULE KIT CLAMP, BASE
STBXBE2100KS	CANOPEN EXTENSION MODULE KIT SCREW,BASE

FieldBus Couplers

STBNCO1010	CanOpen NIM Basic
STBNCO1113	CANOPEN NIM ECONOMY
STBNCO2212	FieldBus Network Coupler, CanOpen, Standard
STBNDN1010	DeviceNet NIM Basic
STBNDN2212	DeviceNet NIM
STBNDP1010	ProfiBus DP NIM Basic
STBNDP2212	FieldBus Network Coupler, Profibus DP
STBNFP2212	FIP IO NIM standard
STBNIB1010	InterBus NIM Basic
STBNIB2212	FieldBus Network Coupler, Interbus-S
STBNIC2212	ETHERNET/IP NIM STANDARD
STBNIP1010	Ethernet MB TCP/IP NIM Basic
STBNIP2212	FieldBus Network Coupler, TF ETHERNET
STBNIP2311	Dual-port Ethernet MB/TCP NIM Standard
STBNMP2212	Modbus Plus NIM standard

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TYPES (continues)

Power Supply / Distribution System

STBCPS2111	AUXILARY POWER SUPPLY
STBCPS2111KC	AUX POWER SUPPLY KIT CLAMP,BASE
STBCPS2111KS	AUX POWER SUPPLY KIT SCREW,BASE
STBPDT2100	115/230VAC PDM
STBPDT2100K	115/230VAC PDM STANDARD KIT CONNS,BASE
STBPDT2100KC	115/230VAC PDM STANDARD KIT CLAMP,BASE
STBPDT2100KS	115/230VAC PDM STANDARD KIT SCREW,BASE
STBPDT2105	115/230VAC PDM Basic
STBPDT2105K	115/230VAC PDM BASIC KIT CONNS,BASE
STBPDT2105KC	115/230VAC PDM BASIC KIT CLAMP CONN,BASE
STBPDT2105KS	115/230VAC PDM BASIC KIT SCREW CONN,BASE
STBPDT3100	24VDC PDM
STBPDT3100K	24VDC PDM STANDARD KIT CONNS,BASE
STBPDT3100KC	24VDC PDM STANDARD KIT CLAMP CONN,BASE
STBPDT3100KS	24VDC PDM STANDARD KIT SCREW CONN,BASE
STBPDT3105	24VDC PDM Basic
STBPDT3105K	24VDC PDM BASIC CONNS,BASE
STBPDT3105KC	24VDC PDM BASIC KIT CLAMP CONN,BASE
STBPDT3105KS	24VDC PDM BASIC KIT SCREW CONN,BASE

Connection Kits

STBXTS1100	6pt I/O Screw Conn Kit Qty 20
STBXTS1110	5pt I/O Screw Conn Kit Qty 20
STBXTS1111	5pt DeviceNet Screw Conn
STBXTS1120	2pt NIM Screw Conn Kit Qty 10

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TYPES (continues)

STBXTS1130	2pt PDM Screw Conn Kit Qty 10
STBXTS2100	6pt I/O Spring Conn Kit Qty 20
STBXTS2110	5pt I/O Spring Conn Kit Qty 20
STBXTS2111	5pt DeviceNet Spring Conn
STBXTS2120	2pt NIM Spring Conn Kit Qty 10
STBXTS2130	2pt PDM Spring Conn Kit Qty 10
STBXTS2150	HSC Mod Connector Kit

Bases

STBXBA1000	I/O Base Size1
STBXBA2000	I/O Base Size2
STBXBA2200	PDM Base
STBXBA2300	BOS Extension Base
STBXBA2400	EOS Extension Base 18mm
STBXBA3000	I/O Base Size3

Accessories

STBXCA1001	0.3M Island Bus Bus Extension Cable
STBXCA1002	1M Island Bus Bus Extension Cable
STBXCA1003	4.5M Island Bus Bus Extension Cable
STBXCA1004	10m Island Bus Bus Extension Cable
STBXCA1006	14M Island Bus Bus Extension Cable
STBXCA3002	1.0m Tego Power Cable
STBXCA3003	2.0m Tego Power Cable
STBXCA4002	Rs232 Config Cable
STBXMP1100	Termination Plate - Spare
STBXMP4440	Memory Card 32k
STBXMP5600	PDM FUSE 5A/10A
STBXMP5690	PWR DIST MDL FUSE BYPASS KT
STBXMP6700	MARKING LABEL SHEET
STBXMP7700	MODULE KEYPIN WHEEL KIT
STBXMP7800	I/O CONN KEY WHEEL KIT
STBXMP7810	PDM BEZEL KEY WHEEL KIT

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TYPES (continues)

STBXSP3000	SHD KIT BRACKETS AND BAR
STBXSP3010	SHD KIT SIZE 1 WIRE CLAMP
STBXSP3020	SHD KIT SIZE 2 WIRE CLAMP
STBXTS1180	18 PT I/O SCREW CONN KIT
STBXTS2180	18 PT I/O SPRING CONN KIT
STBXTS5510	TELEFAST INPUT CONN FOR TWIDO SUB BASE
STBXTS5610	TELEFAST OUTPUT CONN FOR TWIDO SUB BASE
STBXTS6510	TELEFAST2 INPUT CONN
STBXTS6610	TELEFAST2 OUTPUT CONN

APPLICATION

Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and ENV4 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 - 2002.

STANDARD

Manufacturer's Specification

RATINGS

Input power supply: 24Vdc (STBPDT3100/3105)
115Vac or 230Vac (STBPDT2100/2105)

OTHER CONDITIONS

Installation of this equipment for marine applications is to be in accordance with the Rules and Regulations for the Classification of Ships.

**PLACE OF
PRODUCTION**

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France

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The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

The Design Appraisal Document No. HTS/ETS 33140-16 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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