

INDUSTRIAL AUTOMATION PRODUCT

TU830V1

S800 I/O extended module termination unit

Sixteen-channel S800 I/O field termination and power distribution

IDENTITY	VERIFIED VALUE
Manufacturer	ABB
System family	ABB Advant OCS and S800 I/O termination
Part number	TU830V1
Country	Sweden
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named ABB product record.

PARAMETER	VALUE
Article number	3BSE013234R1
Type designation	TU830V1
Terminal block type	Extended MTU
Channels	16
Rated voltage	50 V
Process connections	56
I/O arrangement	Single I/O
Maximum current per channel	2 A
Maximum process-connection current	5 A
Solid conductor	0.2 to 4 mm ²

PARAMETER	VALUE
Stranded conductor	0.2 to 2.5 mm ² ; 24 to 12 AWG
Terminal torque	0.5 to 0.6 Nm
Strip length	7 mm
Dielectric test	500 V AC
Fuse groups	6.3 A
Operating temperature	0 to 55 degC
Storage temperature	-40 to +70 degC
Relative humidity	5 to 95%
Ingress protection	IP20
Mounting orientation	Both directions at 55 degC

VERIFIED PRODUCT RECORD

DATA GROUP	VERIFIED VALUE
Installed host / carrier	ABB S800 I/O module
Companion hardware	ModuleBus base arrangement
Field connection	field signal and power conductors
Primary system function	Terminates sixteen S800 I/O channels
Controlled acceptance duty	S800 I/O cabinet termination

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System Role and Architecture

Sixteen-channel S800 I/O field termination and power distribution

FUNCTION 1

Terminates sixteen S800 I/O channels

FUNCTION 2

Provides fifty-six process connections

FUNCTION 3

Accepts solid and stranded field conductors

FUNCTION 4

Supports either mounting direction at rated temperature

Matched system components

- ABB S800 I/O module
- ModuleBus base arrangement
- field signal and power conductors
- channel fuse-group distribution

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	ABB S800 I/O module
Companion hardware	ModuleBus base arrangement
Field connection	field signal and power conductors
Primary system function	Terminates sixteen S800 I/O channels
Controlled acceptance duty	S800 I/O cabinet termination

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Applications and Engineering Context

S800 I/O cabinet termination

Terminates sixteen S800 I/O channels

Process-signal marshalling

Provides fifty-six process connections

Field-power distribution

Accepts solid and stranded field conductors

Termination-unit replacement

Supports either mounting direction at rated temperature

TECHNICAL NOTE

Verify TU830V1 and article number 3BSE013234R1, paired S800 I/O module, terminal torque, conductor size, fuse grouping and every channel identity before removal; after installation, test insulation, continuity and assigned I/O response.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	TU830V1 / TU830V1 recorded
Physical interface	ABB S800 I/O module
Companion check	ModuleBus base arrangement
Functional proof	Terminates sixteen S800 I/O channels
Application test	S800 I/O cabinet termination

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Engineering Precautions

- 1 Verify the complete TU830V1 marking and its assigned ABB Advant OCS and S800 I/O termination position before work.
- 2 Place the connected s800 i/o cabinet termination process in the approved maintenance state.
- 3 Isolate applicable power and sixteen-channel s800 i/o field termination and power distribution field energy before disconnecting conductors.
- 4 Record connector, conductor, address, firmware and software identities before removal.
- 5 Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
GE DS200SBCBG1ADC	Related industrial automation product	View GE DS200SBCBG1ADC page
GE DS200PCTMG1AAA	Related industrial automation product	View GE DS200PCTMG1AAA page
GE DS200PCCAG9ACB	Related industrial automation product	View GE DS200PCCAG9ACB page
GE DS200FCRRG1AKD	Related industrial automation product	View GE DS200FCRRG1AKD page
GE DS200ADGIH1AAA	Related industrial automation product	View GE DS200ADGIH1AAA page
GE A06B-0104-B111-7000	Related industrial automation product	View GE A06B-0104-B111-7000 page
Woodward 8200-226	Related industrial automation product	View Woodward 8200-226 page
Fanuc A86L-0001-0235	Related industrial automation product	View Fanuc A86L-0001-0235 page

MANUFACTURER SOURCE RECORD

ABB Compact Product Suite hardware selector and TU830V1 technical data

TU830V1 / 3BSE013234R1

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