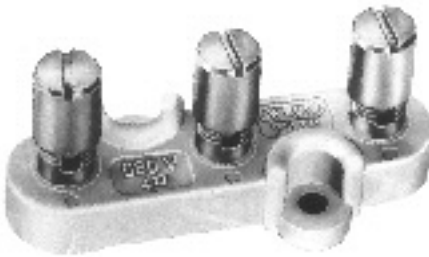
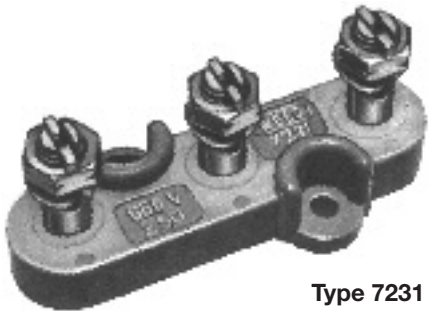


Ex-Molded Plastic Terminals 7230 - 7232 3 poles

EEx e II T6, Explosion Proof



Type 7230 (7232)



Type 7231

Notes on installation

For attachment of the terminal blocks, e.g. two M 4 pan head screws according to DIN 85, and two spring rings A 4 according to DIN 128 must be used.

The terminal blocks have been designed in compliance with DIN EN 50 019 and VDE 0171, part 6/5.78. Types 7230 and 7232 have been designed on the principle of the DF terminal, –see page 57 – whereby the legs and slit bolts are reinforced. Type 7231 has buttress slot terminals, see page 58.

Type Designation	Poles	Connecting Capacity mm ² (AWG)	Max. terminal-space mm in	LengthxWidth mm in	Mounting Hole Spacing Ø mm in
7230	3	2x4 (2x11)	3,1x4,5 0.12x0.18	66x30x32 2.60x1.18x1.26	24x18 4,3 0.94x0.71 0.17
7231	3	2x2,5 (2x13)	2,5x4,4 0.10x0.17	66x30x30 2.60x1.18x1.18	24x18 4,3 0.94x0.71 0.17
7232	3	2x6 (2x9)	3,8x7 0.15x0.28	66x30x32 2.60x1.18x1.26	24x18 4,3 0.94x0.71 0.17

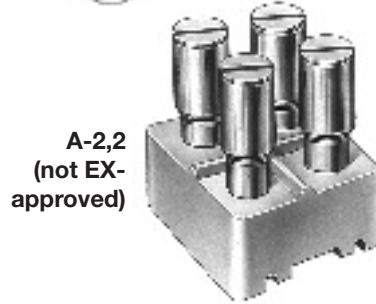
Ex-Shipboard Terminals A-3,1-DREN 4 poles

A-2,2 and A-3,1 (not Ex-approved)

EEx e II T6, Explosion Proof



A-3,1
(EX as DREN-Version)



A-2,2
(not EX-approved)

Notes on installation (EX)

For attachment of the terminal blocks, one M4 pan head screw according to DIN 84, one washer of copper-zinc alloy with Ø 15 mm external/ 4,3 mm internal diameter and a flexible base must be used. The terminal blocks can be used at ambient temperatures up to 40°C at the place of installation due to self-heating in electrical apparatus under service conditions – preferably lighting fittings and junction and connection boxes – for the temperature classes T1 to T6. For use in apparatus in the classes T1 to T3, it must be ensured that the maximum temperature at the insulator does not exceed 100°C. For installation in a terminal housing – minimum degree of protection IP 54 – the requirements of EN 50014 / VDE 0171 part 1 sub-clauses 14.2 and 14.4, must additionally be complied with.

-approved Version

Type Designation	Poles	Connecting Capacity mm ² (AWG)	Terminal space mm in	LengthxWidthxHeight mm in
A-3,1-DREN	4	2x4 (2x11)	3,1x4,5 0.12x0.18	37x37x32 1.46x1.46x1.26

Not EX-approved Version

Type Designation	Poles	Connecting Capacity mm ² (AWG)	Terminal space mm in	LengthxWidthxHeight mm in
A-2,2-MU	4	3x2,5 (3x13)	2,2x5,5 0.09x0.22	24x23x38 0.94x0.91x1.50
A-2,2-DF	4	2x4 (2x11)	3,1x4,5 0.12x0.18	24x23x38 0.94x0.91x1.50
A-3,1-MU	4	2x4 (2x11)	3,1x5,5 0.12x0.22	37x37x29 1.46x1.46x1.14
A-3,1-DF	4	2x4 (2x11)	3,1x4,5 0.12x0.18	37x37x32 1.46x1.46x1.26



Technical Data

Rated Connecting Capacity:

See table

Rated Voltage: Types 7230-7232: 660V
Types A-2,2, A-3,1-MU/-DF: 500V
Type A-3,1-DREN: 250V

Rated Current: At 40°C/104°F ambient temp.

7230: 30 A, 7231: 22 A, 7232: 40 A
A-3,1-DREN: 30 A max.

A-2,2-MU: 26 A*

A-2,2-DF, A-3,1-MU/-DF: 34 A*

*To DIN VDE 0289, Part 4, Table 6, Column 6

Depending on application, relevant equipment safety regulations must be observed.

Material

Types 7230-7232:

Mount: Molded Plastic FS 804 DIN 16911

Slotted Bold and Nut Clamping Member: Nickel plated brass

Spiral Spring: Spring steel, blue annealed
For 4mm² a spring washer of galvanized steel is used instead.

Slotted Bold (7231): Stainless strip steel

Clamping Member (7231): Nickel plated brass

Nut and S.Spring (7231): SW 10, zinc plated steel

Types A-2,2 and A-3,1:

Mount: Steatit KER 220, DIN 40685

(A-3,1-DREN additional glazed)

Terminals: Nickel plated brass

Upper part Version: MU or DF (pages 56/57)

A-3,1-DREN: Mantle terminals, see page 67.

International Approvals

Types 7230/7231: Data see page 74.

EEx e II T6

Partial certificates of the PTB, Braunschweig:

7230: PTB No. Ex - 90.C.3148 U; from 24.10.1990, Dimension table-No. 8073

7231: PTB No. Ex - 90.C.3149 U; from 24.10.1990, Dimension table-No. 8075

7232: PTB No. Ex - 91.C.3103 U; from 19.3.1991, Drawing-No. 30.770.005

A-3,1-DREN: PTB Nr. Ex - 91.C.3101 U; from 11.2.1991, Dimension table-No. 8078

Approved according to European Standard DIN EN 50014/ VDE 0171, part 1/ 5.78 and DIN EN 50019/ VDE 0171, part 6/ 5.78.

Description

Types A-2,2 and A-3,1: Type A-2,2 can be securely attached to 18 mm wide mounting rails with an M 3,5 screw. Type A-3,1 (according to DIN 89300) is preferably fastened with an M 4 screw according to DIN 84 and a 5,3 DIN washer according to 9021, through the star-shaped centre hole. For the attachment of terminal blocks to be used in hazardous areas for naval applications, see *notes on installation*. These terminals have electrically compressed and locked mantle terminals with 3,5 spring ring according to DIN 7980, compare with page 59.

Types 7230-7232: See type column on left.