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ATEX-IECEx Approved
Terminal Blocks

The ATEX - IECEx Directive besides taking into account the electrical sources of explosion, also considers potentially explosive concentrations of gas, vapor or mist along with dust in the air.

Connectwell Terminal Blocks having ATEX - IECEx approval will be marked as follows:

ATEX-IECEx

ATEX-IECEx APPROVED TERMINAL BLOCKS

Installation Instruction. Angular Spring Clamp Series
For Catalogue No. refer table

Marking :

II 2 G Ex e II Gb DEMKO 11 ATEX 1140253U
II (2) D
II 2 G Ex ib IIB Gb
II (2) D
Ex e II Gb IECEx UL 11.0044U
Ex ib IIB Gb 630 V, 60V For I

Assembly on Mounting Rail : Din 35 (Top Hat Rail) as per EN 60715
Ambient Temperature range : -40°C to +40°C
Service Temperature range : -40° C to +75°C

Insulation Material: Polyamide 66, CTI 600 / I, RTI - 105°C

Condition of Safe Use - increased safety "e"
The Terminal Blocks are suitable to mount on Din35 (Top hat Rail) as per EN60715.

The Terminal blocks are suitable for use in ATEX / IECEx certified enclosure with minimum IP rating of IP 54 for Gas atmosphere.

The terminal block has to be built into the enclosure with the type of protection "t" (complying with EN/IEC 60079-31)" or similar when placed in dust atmosphere.
The terminal blocks are suitable for maximum service temperature 75°C, considering the self-heating when used at rated current with specified maximum conductor size & at ambient temperature range of -40°C to +40°C at mounting position.

When the Terminal Blocks are used in electrical apparatus, the highest temperature of the insulating material shall not exceed the max value of the temperature 75 °C.

When these terminal blocks are mounted, the minimum creepage and clearance distances shall be maintained at minimum 12 mm and 10 mm respectively for voltage rating 630V, with neighboring terminal blocks. When terminal blocks are used with terminal block spacers, these terminal block spacers must be ATEX and IEC Ex certified spacers.

Proper care should be taken for stranded wire type of connection in terminal blocks, so that conductors are not getting damaged while installation.

The need to measure the resistance across the terminal with rated conductor cross-section shall be determined during the end-equipment evaluation.

Installation instruction - Intrinsic Safety "I"

EN 60079-14 Clause 12 states Modular Terminal Blocks as simple apparatus when used in intrinsically safe circuits. Testing by a notified body and marking is not required. If Terminal Blocks are identified as part of an intrinsically circuit are marked by a colour, the colour used shall be light blue. Testing for compliance to intrinsically safe requirements including clearance, creepage, and solid insulation distances specified in EN 60079-0 (EN 50014) and EN 60079-11 (EN 50020) have been performed for circuits up to 60 V. Compliance with distance requirements of EN 60079-14 Clause 12.2.3 for the connection of separated intrinsically safe circuit accessories is met. A minimum distance of 50 mm to separate clamping units of intrinsically safe and non intrinsically safe circuits is required by using a partition plate or spacer or similar device.

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ATEX-IECEx APPROVED TERMINAL BLOCKS

Installation Instruction. Screw & Spring Clamp Series
For Catalogue No. refer table

Marking : 

II 2 G Ex e II Gb DEMKO 11 ATEX 0956504 U
II (2) D
Ex e II Gb IECEx UL 11.0053 U

Ambient Temperature range : -40°C to +40°C
Service Temperature range : -40° C to +85°C
Insulation Material: Polyamide 66, CTI 600 / I, RTI - 105°C

Assembly on Mounting Rail : Din 35 (Top Hat Rail) as per EN 60715 / Din 32 (G Rail) as per EN 60715

Condition of Safe Use - increased safety "e"
The Terminal Blocks are suitable to mount on Din35 (Top hat Rail) & Din32 (G Rail) as per EN60715.

The Terminal blocks are suitable for use in ATEX / IECEx certified enclosure with minimum IP rating of IP 54 for Gas atmosphere.

The terminal block has to be built into the enclosure with the type of protection "t" (complying with EN 60079-31)" or similar when placed in dust atmosphere.

The terminal blocks are suitable for maximum service temperature 85°C, considering the self-heating when used at rated current with specified maximum conductor size & at ambient temperature range of -40°C to +40°C at mounting position.
When the Terminal Blocks are used in electrical apparatus, the highest temperature of the insulating material shall not exceed the max value of the temperature 85 °C.

When these terminal blocks are installed, the minimum creepage and clearance distances for the specific voltage rating shall be maintained as duly noted per Table 1 in clause 4.3 and 4.4 of IEC 60079-7 & EN 60079-7. When terminal blocks are used with terminal block spacers, these terminal block spacers must be ATEX and IEC Ex certified spacers.

Proper care should be taken for stranded wire type of connection in terminal blocks, so that conductors are not getting damaged while installation.

The need to measure the resistance across the terminal with rated conductor cross-section shall be determined during the end-equipment evaluation.

For Angular Spring Clamp series refer table

* These terminals have increased and intrinsic safety marks.

Type No.	Rated Voltage		Rated Current	Wire Range mm²	Grade V2 / V0
	for DIN 35 Rail	for DIN 32 Rail			
AS2.5*	630	NA	21	0.34-2.5	V0
AS2.5/3*	630	NA	21	0.34-2.5	V2 & V0
AS2.5/4*	630	NA	21	0.34-2.5	V2 & V0
AGT2.5*	PE	NA	PE	0.34-2.5	V0
AGT2.5/3*	PE	NA	PE	0.34-2.5	V0
AGT2.5/4*	PE	NA	PE	0.34-2.5	V0
AS4*	630	NA	28	0.34-4	V2 & V0
AS4/3*	630	NA	28	0.34-4	V2 & V0
AS4/4*	630	NA	28	0.34-4	V0
AGT4*	PE	NA	PE	0.34-4	V2 & V0
AGT4/3*	PE	NA	PE	0.34-4	V0
AGT4/4*	PE	NA	PE	0.34-4	V0
AS6*	630	NA	36	0.34-6	V2 & V0
AS6/3*	630	NA	36	0.34-6	V2 & V0
AGT6*	PE	NA	PE	0.34-6	V2 & V0
AGT6/3*	PE	NA	PE	0.34-6	V2 & V0
ADL2.5*	630	NA	18	0.34-2.5	V0

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ATEX-IECEx APPROVED TERMINAL BLOCKS

For Screw & Spring Clamp series refer table

Type No.	Rated Voltage		Rated Current	Wire Range mm²	Grade V2 / V0
	for DIN 35 Rail	for DIN 32 Rail			
CTS2.5UN	690	690	21	0.5-2.5	V2 & V0
CTS4UN	690	690	28	0.5-4	V0
CTS6U	690	690	36	1.5-6	V0
CTS10U	690	690	50	1.5-10	V0
CTS16U	690	690	66	2.5-16	V2 & V0
CTS25U	690	690	88	6 - 25	V2
CGT4U	PE	PE	PE	0.5-4	V2 & V0
CGT4N	PE	PE	PE	0.5-4	V2 & V0
CGT10U	PE	PE	PE	1.5-10	V2 & V0
CGT35U	PE	PE	PE	10 - 35	V2 & V0
CGMT4	PE (Din 15)	NA	PE	0.5-4	V2 & V0
CMT4	380 (Din 15)	NA	28	0.5-4	V0
CMB4	440 (panel Mount)	440 (panel Mount)	28	0.5-4	V2 & V0
CSC2.5T	550	NA	21	0.5-2.5	V2 & V0
CSC4T	550	NA	28	0.5-4	V2 & V0
CSC6T	550	NA	36	0.5-6	V2 & V0
CSC2.5T1-2	550	NA	21	0.5-2.5	V2 & V0
CSC2.5T2-2	550	NA	21	0.5-2.5	V2 & V0
CSC4T1-2	550	NA	28	0.5-4	V2 & V0
CSC4T2-2	550	NA	28	0.5-4	V2 & V0
CSCP2.5T	500 (Panel Mount)	500 (Panel Mount)	21	0.5-2.5	V2 & V0
CSCP2.5T2	500 (Panel Mount)	500 (Panel Mount)	21	0.5-2.5	V2 & V0
CDL4U	380	380	28	0.5-4	V2 & V0
ODL4U	550	550	28	0.5-4	V2 & V0
CTL2.5U	380	380	21	0.5-2.5	V0
CTL2.5UH	380	380	21	0.5-2.5	V0
CMC1-2	500	500	28	0.5-4	V2 & V0
CMC2-2	690	690	28	0.5-4	V2
CGT10N	PE	PE	PE	1.5-10	V2 & V0
CGT16N	PE	PE	PE	2.5-16	V2 & V0
CDL4UN	550	550	28	0.5-4	V2 & V0
CTS2.5UE	690	690	28	0.5-4	V0
CSC6T1-2	550	NA	36	0.5-6	V2 & V0
CSCG6T	PE	NA	PE	0.5-6	V2 & V0
CSCG2.5T	PE	NA	PE	0.5-2.5	V2 & V0
CSCG4T	PE	NA	PE	0.5-4	V0
CTS25UN	690	690	88	6 - 25	V0
CGT6N	PE	NA	PE	0.5-6	V2 & V0
CTS35UN	800	800	109	10 - 35	V0
CSC10T	550	NA	50	1.5-10	V0
CSCG10T	PE	NA	PE	1.5-10	V0

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