Installation and Connection Instructions for EX-Terminal enclosures
Articel number: 3000000029
MBA 403118 Ex-e/tD

MULTI-BOX THE BOX COMPANY

D 32278 Kirchlengern

Equipment may only be made with terminals certified for “increased safety”.
The maximum number of terminals depends on the diameter and the authorized permanent current for the above mentioned enclosure size. Every conductor going into the box counts as well as every internal conductor. Terminal bridges and ground connections are not to be considered.

Current Amp.	Diameter mm² 1,5	2,5	4	6	10	16	25	35	50	70	95	120
6												
10	100				Within this area further terminals may be added considering the general instruction and the required room for installation.							
16	34	67	260									
20	14	39	75									
25		18	42	82								
35			12	32	80							
50				4	26	66						
63					8	30	109					
80						11	34	122				
100							14	32				
125	Additional terminals in this area will require a separate proof for the heat power loss.							13	32			
160									11	28		
200										10	25	77
225										4	14	30
250											7	18
315												3
max. terminals	225***	189***	156***	80**	64**	52**	20*	20*	20*	12*	12*	12*

***Modular terminal installed on DIN rail TS 35 (up to 3 pieces)**

Internal earthing connections: **Modular PE terminal and/or internal earthing bar**

External earthing connections: **External earthing VA up to 70 mm²**

Maximum number of terminals depends on the above mentioned enclosure size and the diameter resp. the maximum connection diameter of the terminals installed must be considered.

Advice:
For the selection of the maximum permanent current for the diameters the max. load current of the terminals installed and the cables or conductors have to be considered. Conductors inside an enclosure that is equipped as per above mentioned chart must be suitable for temperatures up to 80 degrees C. Applying the above mentioned charts the load factors of IEC 439 must be taken into consideration. Mixed installations of circuits with different diameters and currents are allowed using the limits of the chart.

Example: (general)	Diameter	Current in A	Quantity	Loadfactor
	2,5 mm²	16	10 (out of 30)	33%
	16 mm²	50	12 (out of 48)	25%
	25 mm²	63	36 (out of 90)	40%
			Addition	**98% < 100%**

Cable entries, blind plugs, ventilation plugs and drain plugs may only be used, when they are certified as per IEC 60079:2007. They may be equipped with metric or PG threads. Upon installation of the above mentioned components it must be secured that they guarantee the required protection class and that they are installed with the correct torque as per installation instruction of the components.

Upon Installation of EX-d-components the number of conductors must be considered.
EX-d Components with own heat power loss must not be used.