Control Panels, Distribution Panels and Components



EEx d Enclosures Flameproof Encapsulation in Sheet Steel Series 8225

- Explosion protection to
 - CENELEC
 - IEC
- Can be used in Zone 1 and Zone 2
- Enclosure in sheet steel
- 6 basic enclosure sizes
- Enclosures can be combined (modular system)
- Available as empty enclosures or as completely fitted and wired control and distribution units
- Cable entries available:
 - direct: cable glands, conduit
 - indirect (via EEx e enclosure): stud-type bushing conductor bushing



Series 8225 sheet steel enclosures can be used as single enclosures and combinations. The dimensions of the enclosures are so designed that they can be combined into a large modular unit. A large number of components, such as contactors, switches, instruments and PLCs can be built into these enclosures. Naturally, customer-supplied equipment can also be incorporated into the layout.

The equipment layout is designed by us to customer's requirements. 6 basic enclosure sizes with different depths are available

Cable entry is either direct (cable glands or conduit entries) or indirect via an EEx e housing (stud-type or conductor bushings) – see catalogue section 13.

Zone 1 and Zone 2

Selection table Configurations for flameproof enclosure type EEx d with EEx e connection chambers							
Type	Ordering code			Weight [kg]			
	fig. No.	EEx e enclosure	EEx d enclosure	EEx e enclosure	EEx d enclosure		
Type 8225/141	1	8125/5051 – 🗆	8225/141	1,5	20/ –		
Type 8225/.1.	2	8125/8106 – 🗆	8225/□12	3,1	37/42		
Type 8225/.2.	3	8125/8206 – □	8225/□22	5,5	63/71		
Type 8225/.7.	4 5	8125/8206 – □ 8125/8206 – □	8225/172 8225/173	5,5	76/ – 81/ –		
7ype 8225/.3.		8125/8306 – 🗆	8225/□32	6,0	101/120		
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	7 8	8125/8307 – 🗆 8125/8307 – 🗆	8225/□35	6,5 7,0	112/ – 127/146		
Type 8225/196	9	8125/8907 - 🗆	8225/196	11,0	300/-		
Add. to ordering code: Material EEx e enclosure: Sheet steel Stainless steel Material EEx d enclosure: Sheet steel/light metal Stainless steel/bronze To order: Accessories in EEx d chamber: Accessories in EEx e chamber: Accessories in EEx e chamber: e.g. barrier bushings, switch with operating shaft (with or without cover interlock), inspection windows, etc. e.g. terminals, earth rail, busbars etc. See also "accessories/design options" page 11/15.							

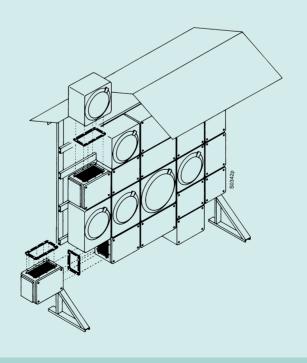


EEx d Enclosures Flameproof Encapsulation in Sheet Steel Series 8225

Technical data					
Series 8225 Enclosures 8220/.50 Control					
Explosion protection	EEx de IIC T4/T5 or T6				
Test certificate Empty enclosure Enclosure with components	PTB Nr. Ex-91.C.1064 U PTB Nr. Ex-94.C.1065 Other cetificates: ISSeP (Belgium), BVS/DMT (Germany), ERA (Great Britain), SZS (Yugoslavia), TÜV Vienna (Austria)				
Rated working voltage U _e	up to 1000 V, AC/DC				
Rated working current I _e	Enclosure	I₀, max.	Enclosure	I _e , max.	
	8225/141	135 A	8225/.7.	630 A	
	8225/.12	200 A	8225/.3.	630 A	
	8225/.22	400 A	8525/196	800 A	
Ambient temperature	– 20° C + 40° C, others on request				
Degree of protection	IP 55				
Series 8125 EEx e connection chamber					
Explosion protection	EEx e II T6 oder EEx de IIC T5/T6 depends on components used				
Test certificate	8125/8		PTB-Nr. Ex-96.D.3148		
	Other certificates:		BKI (Hungary), CSA (Canada), FTZU (Czech Republic), PTB (Germany), SEV (Switzerland), UL (USA)		
Degree of protection	IP 65				
Rated working voltage U _e	max. 1100 V, UC				
Ambient temperature	– 20° C + 40° C, others on request				
Combination options	Enclosure configuration This lowest shows the modular combination entions for enclosure exctom 9220 with				



This layout shows the modular combination options for enclosure system 8220 with connection chambers type 8125



Accessories/Design options of EEx d enclosures series 8225						
Version		for enclosure	Description			
Inspection window	Ø 65 mm	8225/.2. 8225/.7. 8225/.3. 8225/.9.	Flameproof inspection windows of borosilicate glass must be fitted centrally into the cover (adhesive fitting) or the side wall (screwed fitting) of the enclosure. Inspection windows are available in diameters from 105 mm to 150 mm and with an operating spindle.			
	Ø 105 mm	8225/.7.				
		8225/.3.				
decisions decisions	2 100 111111	8225/.9.				
in side wall in cover						
Barrier bushings		all	Rated current can be selected depending on number of electrical connections between EEx d and EEx e chamber. See also section 13.			
Cover interlock		all	Main switches of all sizes can be fitted with automatic cover interlock so that enclosure may only be opened when switch is in 0-position.			
Control gear		all	Flameproof actuators can be mounted into 'd' chamber cover. Typical application: reset button of motor protection relay.			
Operating spindles through side wall		all	Operating spindles can be fitted through side wall to actuate switch or potentiometer.			
Hinged mounting plate		8225/.33 8225/.35 8225/196	For large 8225 enclosures, a hinged mounting plate is available to provide additional mounting level. The bottom mounting plate thus remains accessible.			
Cover hinges		8225/.22 8225/.7. 8225/.3. 8225/196	Flameproof chamber cover can also be supplied with hinges to prevent it sliding during opening (cover with or without inspection window).			

