



Socket-Outlet Assemblies Series 8146

- Explosion protection to
 - CENELEC
 - IEC
- Can be used in Zone 1 and Zone 2
- Glass fibre-reinforced polyester resin enclosures
- Fitted to order with
 - flanged sockets 16 A, in 2 or 3 pole versions, with switch incorporated in the bush carrier
 - flanged sockets 16 A, in 3, 4 or 5 pole versions, with separately mounted, mechanically coupled switch socket unit
 - flanged sockets 32 A, in 4 or 5 pole version, with separately mounted mechanically coupled switch socket unit

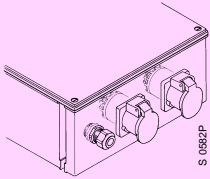




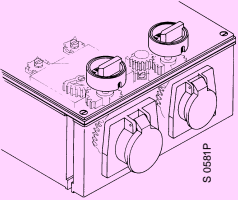







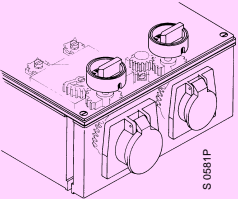



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Series 8146 socket-outlet assemblies are installed in hazardous areas where it is repeatedly necessary to use electrical equipment at short notice. The individual socket-outlets can be protected by fuses type 8561, miniature circuit breakers 8562 or earth leakage circuit breakers 8563. Switches 8543 and 8548 are available to isolate the entire assembly. Because of the variety of assembly versions it is not possible to standardize. The assemblies are manufactured to order depending on the application.

Zone 1 and Zone 2

Selection table

Available socket-outlets

Version	Description/ Voltage [V]	Number of pins	Colour	Frequency [Hz]	h	Ordering code	
Flange socket, 8575, 16 A							
 <p>Flange sockets 16 A 8575/13 fitted in enclosure 8146</p>	Extra low voltage	20 – 25 V		violet	50/60	– 8575/15 – 100	
		20 – 25 V		violet	DC	10	8575/15 – 110
		40 – 50 V	2 P	white	50/60	12	8575/15 – 112
		Extra low voltage	20 – 25 V		violet	50/60	– 8575/15 – 200
			40 – 50 V		white	50/60	12
	Low voltage	110 – 130 V		yellow	50/60	4	8575/15 – 304
		220 – 240 V		blue		6	8575/15 – 306
		380 – 415 V	3 P (2 P + )	red		9	8575/15 – 309
	Flange socket, assembly 175, 16 A						
 <p>Flange sockets 16 A assembly 175 fitted in enclosure 8146</p>	Extra low voltage	20 – 25 V		violet	50/60	– 8800/175 – 0 – 100	
		20 – 25 V		violet	DC	10	8800/175 – 0 – 110
		40 – 50 V	2 P	white	50/60	12	8800/175 – 0 – 112
		Extra low voltage	20 – 25 V		violet	50/60	– 8800/175 – 0 – 200
			40 – 50 V		violet	50/60	12
	Low voltage	110 – 130 V		yellow	50/60	4	8800/175 – 0 – 304
		220 – 240 V		blue		9	8800/175 – 0 – 309
		380 – 415 V	3 P (2 P + )	red		6	8800/175 – 0 – 306
		110 – 130 V		yellow	50/60	4	8800/175 – 0 – 404
		220 – 240 V		blue		9	8800/175 – 0 – 409
		380 – 415 V	4 P (3 P + )	red		6	8800/175 – 0 – 406
		500 V		black		7	8800/175 – 0 – 407
	660 – 690 V		black		5	8800/175 – 0 – 405	
	Low voltage	110 – 130 V		yellow	50/60	4	8800/175 – 0 – 504
		127 – 240 V		blue		9	8800/175 – 0 – 509
220 – 415 V			red		6	8800/175 – 0 – 506	
500 V			black		7	8800/175 – 0 – 507	
660 – 690 V			black		5	8800/175 – 0 – 505	
Flange socket, assembly 178, 32 A							
 <p>Flange socket 32 A assembly 178 fitted in enclosure 8146</p>	Low voltage	110 – 130 V		yellow	50/60	4 8800/178 – 0 – 404	
		220 – 240 V		blue		9	8800/178 – 0 – 409
		380 – 415 V	4 P (3 P + )	red		6	8800/178 – 0 – 406
		500 V		black		7	8800/178 – 0 – 407
		660 – 690 V		black		5	8800/178 – 0 – 405
		110 – 130 V		yellow	50/60	4	8800/178 – 0 – 504
	220 – 415 V		red		6	8800/178 – 0 – 506	
	500 V		black		7	8800/178 – 0 – 507	

Note: Flange socket assemblies 175 and 178 must be fitted at works.

Selection







Note: The number of possible combinations prevents development of a standard range. They are therefore assembled to order, to suit a specific application.

Technical data: Technical data of the housing series 8146 or EEx-modules see list-parts 8/27, 8/37 to 8/43 and 8/73.

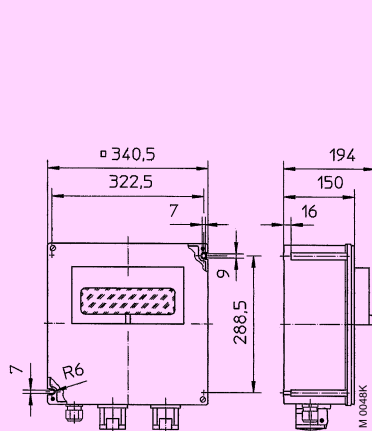
Order example: Explosion protected outlet assembly, EEx ed II C T4, series 8146, comprising:
 1 Earth leakage c.b., 40 A, $I_{FN} = 30$ mA, Type 8562/44 – ...
 2 Fuse holders, 16 A, Type 8561
 2 Flange sockets, 3 P (P + N + \perp), 16 A, Type 8575/15-306
 1 Cable entry, below, M 32 x 1,5

Explosion protected socket-outlet assemblies/examples

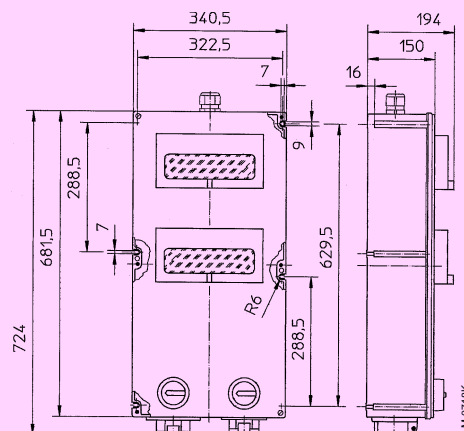
Schematic	Arrangement	Housing	Component list
		8146/5083 with flange housing	2 F1, F2 FI-LS-Motor protection switches 8562/42 – 5050 – 160 2 X1, X2 Flange sockets 8575/15 – 306
		8146/5093	1 F1 MCB, 1 pole + N; 16 A 8562/42 – 5010 – 160 1 F2 MCB, 3 poles, 16 A 8562/43 – 3010 – 160 1 F3 MCB, 3 poles, 32 A 8562/43 – 3010 – 320 1 X1 Flange socket 8575/15 – 306 1 X2 Flange socket Assembly 175 (16 A) 1 X3 Flange socket Assembly 178 (32 A)
		8146/5093	2 F1, F2 MCB 3 poles, 16 A, 8562/43 – 3010 – 160 2 Q1, Q2, F4 Earth leakage c.b. 8562/44 – 4100 – 250 2 X1, X2 Flange socket Assembly 175 (16 A)
		2 x 8146/5093	1 Q1 Switch, 4 poles, 8548 6 F1, F2 Fuseholder, 8561 2 X1, X2 Flange socket Assembly 178 (32 A)

Technical data		Socket-outlet assemblies 8146	
Explosion protection	EEx de IIC T4 ... T6 ¹⁾ ¹⁾ depending on components installed		
Test certificate	PTB Nr. Ex-84/1019		
Enclosure material	Polyester resin		
Degree of protection	IP 65 (IP 54 at the hinged cover of the sockets)		
Rated voltage	max. 690 V + 5 %, AC		
Ambient temperature	– 20° C ... + 40° C		
Flange sockets			
Series	8575	Assembly 175	Assembly 178
Enclosure material	Polyamide	Polyamide	Polyamide
Rated voltage	Max. 500 V	Max. 690 V + 5 %	Max. 690 V + 5 %
Rated current	16 A	16 A	32 A
Back-up fuse with therm. protection	According to operating instruction		
Number of pins	2 P + 	2 P +  3 P +  3 P + N + 	3 P +  3 P + N + 
Interlock switch	3 pole, switch with definite contact (NC)	3 pole switch with isolating characteristics, 1 auxiliary contact (ON – delayed, OFF – advanced)	
Handle	–	Actuator is lockable in 0 and I position.	
Switching capacity to.	AC 21 ¹⁾	AC 23 ¹⁾	AC 23 ¹⁾
¹⁾ DIN VDE 0660 (IEC 947-3) Part 107 12.92	16 A, 500 V~	16 A, 690 V~	32 A, 690 V~
²⁾ DIN VDE 0660 (IEC 947-4-1) Part 102 07.92	AC 3 ²⁾	AC 3 ²⁾	AC 3 ³⁾
³⁾ DIN VDE 0660 (IEC 947-4-3) Part 107 12.92	16 A, 380 V~	16 A, 690 V~	32 A, 690 V~ ²⁾
	4 kW, 220 V~ 230 V~ 240 V~	4 kW, 220 V~ 230 V~ 240 V~ 7,5 kW, 380 V~ 400 V~ 415 V~ 500 V~ 11 kW, 660 V~ 690 V~	7,5 kW, 220 V~ 230 V~ 240 V~ 15 kW, 380 V~ 400 V~ 415 V~ 18,5 kW, 500 V~ 30 kW, 660 V~ 690 V~
DIN VDE 0660 (IEC 947-4-1) Part 102 07.92	DC 3 10 A, 220 V–	DC 3 10 A, 110 V–	
DIN VDE 0660 Part 200 09.82	DC 21 16 A, 110 V–		DC 11 32 A, 110 V–

Dimensions, all dimensions in mm – subject to alteration



Socket-outlet assembly in the enclosure 8146/5083



Socket-outlet assembly in the enclosure 8146/5093