Wall-Mounting Sockets Series 8581/31 125 A





- Reliable load disconnect switch with easily visible, lockable handle and switching position display
- An integrated auxiliary contact for control and signalling purposes, can optionally be enhanced with pluggable, easily retrofittable Ex e or Ex i auxiliary contacts
- Wide temperature range for use
- High mechanical impact and shock resistance
- Perfect protection against the ingress of liquids and dust
- 3D data available to download from the website

MY R. STAHL 8581A



R. STAHL Series 8581/31 sockets for Zone 1/21 in a 4- and 5-pole version have full AC-3 switching capacity up to 125 A. The high degree of protection IP66 guarantees the highest level of protection against the penetration of dust and water in any application position. Self-cleaning lamellar contacts provide optimum contact and the plugs can be inserted and removed in the zero position quickly and easily. The load disconnect switch, with mechanical locking device and a handle that can be locked in the 0 or I position, is an additional safety feature.

	IEC	Ex / <i>A</i>	TEX			
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table								
Product Description Auxiliary contacts		Wall-moun 2 (1 NO + 1	ting socket 125 A I NC)					
Figure	Detailed number of poles	Coding (clock hour position)	Rated operational voltage AC	Colour code	Frequency range	Product Type	Art. No.	Weight
(1200-10013)	3 P + N + PE	6	200/346 to 240/415 V AC	Red	50 / 60 Hz	8581/31-506	277857	20.5 kg
L1 • I		7	277/480 to 288/500 V AC	Black	50 / 60 Hz	8581/31-507	277858	20.5 kg
3 P + PE	3 P + PE	6	380 to 415 V AC	Red	50 / 60 Hz	8581/31-406	277859	19.2 kg
		7	480 to 500 V AC	Black	50 / 60 Hz	8581/31-407	277860	19.2 kg
		9	200 to 250 V AC	Blue	50 / 60 Hz	8581/31-409	277861	19.2 kg

Technical Data	
Explosion Protection	
Scope of validity	European Union (ATEX) IECEx China (CQST)
Scope of validity Note	Other country markings available on request
IECEx gas explosion protection	Ex db eb IIC T6 T5 Gb
IECEx dust explosion protection	Ex tb IIIC T65 °C / T85 °C Db
ATEX gas explosion protection	© II 2 G Ex db eb IIC T6 T5 Gb
ATEX dust explosion protection	
Certificates	ATEX (PTB), Brazil (ULB), China (CQST), IECEx (PTB), Korea (KGS), Taiwan (ITRI)

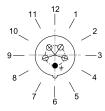


F3

echnical Data	
Explosion Protection	
Declaration of Conformity	ATEX (EGK), China (CCC)
Electrical Data	
Rated operational current	max. 125 A
Switching capacity main contacts	AC-3: 690 V, 125 A
Device Specific Data	
Back-up fuse with thermal protection	160 A gG
Back-up fuse without thermal protection	125 A gG
Ambient Conditions	
Ambient temperature	-45 °C to +60 °C
Ambient temperature note	For further information, see the operating instructions.
Notes	For further information, see the operating instructions.
Mechanical Data	
IP degree of protection (IEC 60529)	IP66
IP degree of protection (IEC 60079)	IP66
Enclosure material	Polyester, Glass fibre reinforced
Silicone-free	No
Multiple conductor connection	2 x 35 mm² to 2 x 50 mm²
Finely stranded connection cross-section	1 x 50 mm² 1 x 150 mm²
Stranded connection cross-section	1 x 35 mm² 1 x 150 mm²
Impact strength (IEC 60079)	7,1
Impact strength (IEC 62262)	IK10
Lockable in	in 0- and I-position
Components	
Cable entry note	Entry 1: Lower left Entry 2: Lower right
Entry 1 model	8161/7-M63-4828-LT
Entry 1 type	Polyamide cable gland
Entry 1	M63 x 1.5
Entry 1 terminal area	28 – 48 mm
Metal entry possible 1	No
Entry 2 model	8290/3-M63
Entry 2 type	Polyamide stopping plug
Entry 2	M63 x 1.5
Metal entry possible 2	No
Entry 3 model	8290/3-M25
Entry 3 type	Polyamide stopping plug
Entry 3	M25
Metal entry possible 3	No
Notes	Cable gland position: Bottom (standard); optionally also possible on the top or lateral

Arrangement of the Earth Contact Sleeves

Time position Example: 6h position



Arrangement of socket contacts and terminal markings





3 P + PE

3 P + N + PE

Arrangement of the socket contacts and terminal markings in the 6h position (view from the front side of the socket to the socket contacts)

2

Wall-Mounting Sockets Series 8581/31 125 A



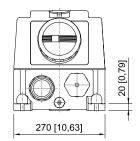
Accessories			
Figure	Description	Art. No.	Weight
Auxiliary contact			
	2 NC contacts (8080/1-3) 250 V AC/DC max. 6 A 1.5 2.5 mm² solid / finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: synchronising	168356	26 g
	1 NC contact + 1 NO contact (8080/1-1) 250 V AC/DC max. 6 A 1.5 2.5 mm² solid / finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left: delayed (ON), leading (OFF) Right: synchronising	168351	26 g
	2 NO contacts (8080/1-4) 250 V AC/DC max. 6 A 1.5 2.5 mm² solid / finely stranded The switching function of the auxiliary contact depends on the installation slot used. Left and right: synchronising	168353	26 g
Cable gland made of p	lastic		
	8161/7-M25-1707, Ex e Plastic, M25 x 1.5, cable outer diameter 7 to 17 mm Lot size 50 pieces	239157	19 g
Stopping plug			
	8290/3-M25 Plastic, M25 x 1.5 Lot size 1 piece	143524	10 g

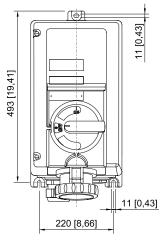
Spare Parts				
Figure	Description	Art. No.	Weight	
Auxiliary contact key				
	for removing the mounted auxiliary contact	201909	35 g	
Repair set for sockets series 8581				
	Repair kit 8581 hinged cover, black	275511	220 g	
	Repair kit 8581 hinged cover, blue	275503	220 g	
	Repair kit 8581 hinged cover, red	275510	220 g	

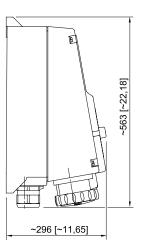


E3

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations







Wall-mounting socket