

- Reliable load disconnect switch with easily visible, lockable handle and display of the switch position
- An integrated auxiliary contact for control and signalling purposes,


## MY R. STAHL 8581B

 can be optionally enhanced using pluggable Ex e or Exi auxiliary contacts that are easily retrofittable- Large temperature range of use
- High mechanical impact and shock resistance
- Perfect protection against penetration of liquids and dusts
- 3D data for download on the website

The R. STAHL Series 8581/41 sockets for Class I, Div. 2, Groups A, B, C and D and Zone 1/21 in 4- and 5 -pole versions have full AC-3 switching capacity up to 100 A . The high degree of protection (IP66) ensures maximum protection against the ingress of dust and water in any application situation. 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 a mechanical locking device and a handle that can be locked in the $\mathrm{ON}(0)$ and OFF (I) position, is an additional safety feature.


| Selection Table |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Product Description Auxiliary contacts | Wall-mounting socket 100 A$2(1 \mathrm{NO}+1 \mathrm{NC})$ |  |  |  |  |  |  |  |
| Figure | Detailed number of poles | Coding (clock hour position) | Rated operational voltage | Colour code | Frequency range | Product Type | Art. No. | Weight |
|  | 3 -pole, 4 conductors | 5 | 600 V AC | Black | $50 / 60 \mathrm{~Hz}$ | 8581/41-405 | 209876 | 21.4 kg |
| a |  | 7 | 480 V AC | Red | $50 / 60 \mathrm{~Hz}$ | 8581/41-407 | 209877 | 21.4 kg |
|  |  | 9 | 250 VAC | Blue | $50 / 60 \mathrm{~Hz}$ | 8581/41-409 | 209878 | 21.4 kg |
|  | 4-pole, 5 conductors | 5 | $600 \mathrm{Y} / 347 \mathrm{~V}$ AC | Black | $50 / 60 \mathrm{~Hz}$ | 8581/41-505 | 209873 | 21.4 kg |
|  |  | 7 | $480 \mathrm{Y} / 277 \mathrm{~V}$ AC | Red | $50 / 60 \mathrm{~Hz}$ | 8581/41-507 | 209874 | 21.4 kg |
|  |  | 9 | 208Y/120 V AC | Blue | $50 / 60 \mathrm{~Hz}$ | 8581/41-509 | 209875 | 21.4 kg |


| Technical Data |  |
| :--- | :--- |
| Explosion Protection | European Union (ATEX) |
| Scope of validity | Canada |
|  | IECEx |
|  | USA |
| Scope of validity Note | Other country markings available on request |
| FMus certificate | OR6A2.AX |
| Marking FMus | Class I, Div. 2, Groups A,B,C,D; |
|  | Class II, III, Div. 1, Groups E,F,G; |
|  | Enclosure Type 3, 4, $4 \mathrm{CX} \mathrm{IIC} \mathrm{T5} \mathrm{~Gb}$ |


| Technical Data |  |
| :---: | :---: |
| Explosion Protection |  |
| cFM certificate | 3050350 |
| Marking cFM | Class I, Zone 1, Ex de IIC T5 Gb Cl. I, Div. 2 per CEC J18-150, Class II, Div. 1, Groups G; Enclosure Type 3, 4, 4X |
| IECEx gas explosion protection | Ex db eb IIC T6 ... T5 Gb |
| IECEx dust explosion protection | Ex tb IIIC $\mathrm{T} 65^{\circ} \mathrm{C} / \mathrm{T} 85^{\circ} \mathrm{C} \mathrm{Db}$ |
| ATEX gas explosion protection | (®x) II 2 G Exdb eb IIC T6 ... T5 Gb |
| ATEX dust explosion protection | (ex) II 2 DExtb IIIC $\mathrm{T} 65^{\circ} \mathrm{C} / \mathrm{T} 85^{\circ} \mathrm{C} \mathrm{Db}$ |
| Certificates | ATEX (PTB), Brazil (ULB), Canada (FM), China (CQST), IECEx (PTB), Korea (KGS), USA (FM) |
| Electrical Data |  |
| Rated operational current | max. 100 A |
| Device Specific Data |  |
| Back-up fuse with thermal protection | 160 AgG |
| Back-up fuse without thermal protection | 125 AgG |
| Ambient Conditions |  |
| Ambient temperature | $\begin{aligned} & -30^{\circ} \mathrm{C} \ldots+45^{\circ} \mathrm{C}(\mathrm{~T}, 100 \mathrm{~A}) \\ & -30^{\circ} \mathrm{C} \ldots+60^{\circ} \mathrm{C}(\mathrm{TS}, 100 \mathrm{~A}) \\ & -22^{\circ} \mathrm{F} \ldots+113^{\circ} \mathrm{F}(\mathrm{~T}, 100 \mathrm{~A}) \\ & -22^{\circ} \mathrm{F} \ldots+140^{\circ} \mathrm{F}(\mathrm{~T} 5,100 \mathrm{~A}) \end{aligned}$ |
| Mechanical Data |  |
| Enclosure type (NEMA250) | 3, 4, 4X |
| Degree of protection IP (IEC 60529) | IP66 |
| IP degree of protection (IEC 60079) | IP66 |
| Enclosure material | Polyester, Glass fibre reinforced |
| Silicone-free | No |
| Multiple conductor connection AWG | $2 \times$ AWG $2 . . .2 \times$ AWG $1 / 0$ |
| Multiple conductor connection | $2 \times 35 \mathrm{~mm}^{2}$ to $2 \times 50 \mathrm{~mm}^{2}$ |
| Finely stranded connection cross-section AWG | $1 \times$ AWG $1 / 0 . . .1 \times$ AWG 300 kcmi |
| Finely stranded connection cross-section | $1 \times 50 \mathrm{~mm}^{2} \ldots 1 \times 150 \mathrm{~mm}^{2}$ |
| Stranded connection cross-section AWG | $1 \times$ AWG $2 \ldots 1 \times$ AWG 300 kcmil |
| Stranded connection cross-section | $1 \times 35 \mathrm{~mm}^{2} \ldots 1 \times 150 \mathrm{~mm}^{2}$ |
| Impact strength (IEC 60079) | 7 J |
| Impact strength (IEC 62262) | IK10 |
| Lockable in | in 0 - and l-position |
| Components |  |
| Cable entry note | Entry 1: Bottom left Entry 2: Bottom right |
| Entry 1 model | Can be ordered as accessories |
| Entry 1 | NPT 2" |
| Metal entry possible 1 | Yes |
| Entry 2 model | 8290/3-M63 |
| Entry 2 type | Polyamide stopping plug |
| Entry 2 | M63 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 on the top or side |

Position of clock hour position
Example: 6 h position
Figure
Auxiliary contact

| Spare Parts |  |  |  |
| :---: | :---: | :---: | :---: |
| Figure | Description | Art. No. | Weight |
| Auxiliary contact key |  |  |  |
| $\left(\begin{array}{l} 0 \\ 80 \end{array}\right]$ | For removing installed auxiliary contacts | 201909 | 35 g |
| Repair set for Series 8581 sockets |  |  |  |
|  | Repair set 8581 hinged cover, black | 275511 | 220 g |
|  | Repair set 8581 hinged cover, blue | 275503 | 220 g |
|  | Repair set 8581 hinged cover, red | 275510 | 220 g |

Series 8581/41 100 A


Wall-mounting socket

