



Low Voltage Products

# Switches

## Switch fuses

### OS32...160 A Gamma series

# Switch fuses for extreme conditions

## - OS 32...160 Gamma series

Numerous applications require switch fuses that can withstand extreme conditions. High voltages and high short circuit currents create a demand for superior performance without neglecting safety.

### Superior performance

- High  $U_i$  ratings
  - High CTI in supporting parts
  - The contact constructions are optimal, regardless of fuse type, DIN, BS, NFC or UL-type
  - Meets the requirements for installation close to the main transformer up to 100 kA in heavy industry and in ships
- High performance level and smart design makes OS Gamma switch fuses suitable for all applications in low voltage networks.



Our new series comprises of two frame sizes OS32G...63G\_ and OS100G...160G\_.



### Compact construction

- Intelligent construction in combination with a small number of components results in a very compact mechanism design
  - Very small footprint area
- Space savings mean cost reduction!

### Designed for safety

- The frame is made of robust plastic with excellent mechanical and thermal properties.
  - Voltage output pins (as standard)
  - Pole markings as standard
  - The fuse covers cannot be opened while the switch fuse is in the ON-position and can be sealed in the closed position.
- You take no risks with OS32...160 Gamma switch fuses



# Switch fuses OS32G...160G\_

## Technical data

### Technical data according to IEC 60947-3

|                                                                                                  |                                                                                       | Switch size     | A        | OS 32    | OS 50    | OS 63               | OS 125              | OS 160  |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------|----------|----------|----------|---------------------|---------------------|---------|
| Rated insulation voltage                                                                         | Pollution degree 3                                                                    | V               | 1 000    | 1 000    | 1 000    | 1 000               | 1 000               | 1 000   |
| Dielectric strength                                                                              | 50 Hz 1min.                                                                           | kV              | 10       | 10       | 10       | 10                  | 10                  | 10      |
| Rated impulse withstand voltage                                                                  |                                                                                       | kV              | 12       | 12       | 12       | 12                  | 12                  | 12      |
| Rated thermal current in ambient 40 °C <sup>2)</sup> / max. fuse power dissipation <sup>1)</sup> | In enclosure                                                                          | A/W             | 32/7.5   | 50/7.5   | 63/7.5   | 125/12              | 160/12              |         |
| ...with minimum cable cross section                                                              | Cu                                                                                    | mm <sup>2</sup> | 6        | 10       | 16       | 50                  | 70                  |         |
| Rated operational voltage AC-20 and DC-20                                                        |                                                                                       | V               | 1 000    | 1 000    | 1 000    | 1 000               | 1 000               | 1 000   |
| Rated operational current, AC-21                                                                 | up to 500 V                                                                           | A               | 32       | 50       | 63       | 125                 | 160                 |         |
|                                                                                                  | 690 V                                                                                 | A               | 32       | 50       | 63       | 125                 | 160                 |         |
| Rated operational current, AC-22                                                                 | up to 500 V                                                                           | A               | 32       | 50       | 63       | 125                 | 160                 |         |
|                                                                                                  | 690 V                                                                                 | A               | 32       | 50       | 63       | 125                 | 160                 |         |
| Rated operational current, AC-23                                                                 | up to 500 V                                                                           | A               | 32       | 50       | 63       | 125                 | 160                 |         |
|                                                                                                  | 690 V                                                                                 | A               | 32       | 50       | 63       | 125                 | 160                 |         |
| Rated operational power, AC-23 <sup>4)</sup>                                                     | The kW-ratings are accurate for three-phase 1500 R.P.M. standard asynchronous motors. | 230 V kW        | 7.5      | 11       | 18.5     | 37                  | 45                  |         |
|                                                                                                  |                                                                                       | 400 V kW        | 15       | 22       | 30       | 55                  | 75                  |         |
|                                                                                                  |                                                                                       | 415 V kW        | 15       | 22       | 30       | 55                  | 75                  |         |
|                                                                                                  |                                                                                       | 500 V kW        | 18.5     | 30       | 37       | 75                  | 90                  |         |
|                                                                                                  |                                                                                       | 690 V kW        | 22       | 37       | 55       | 110                 | 132                 |         |
| Rated breaking capacity in category AC-23                                                        | up to 690 V                                                                           | A               | 504      | 504      | 504      | 1280                | 1280                |         |
| Rated conditional short-circuit current I <sub>p</sub> (r.m.s.)                                  | 100 kA, 500 V                                                                         | kA              | 12       | 12       | 12       | 25                  | 25                  |         |
| I <sub>p</sub> (r.m.s.) and corresponding max. allowed cut-off current $\hat{i}_c$               | Fuse size                                                                             | OFAA/OFAM       | A        | 63/63    | 63/63    | 63/63               | 160/160             | 160/160 |
| Power loss / pole                                                                                | With rated current, without fuse                                                      | W               | 1        | 2.5      | 4        | 5                   | 9                   |         |
| Mechanical endurance                                                                             | Divide by two for oper. cycles                                                        | Oper.           | 20 000   | 20 000   | 20 000   | 20 000              | 20 000              |         |
| Fuse types, IEC 60269-2-1                                                                        | DIN 43620                                                                             |                 | 000      |          | 000      | 000, 00             | 000, 00             |         |
|                                                                                                  | NFC 63210, 63211                                                                      |                 |          | 14x51    |          | 22x58               |                     |         |
|                                                                                                  | BS 88-2, -6 -size /                                                                   |                 | A2-A3    |          | A2-A3    | A2-A4 <sup>3)</sup> | A2-A4 <sup>3)</sup> |         |
|                                                                                                  | distance of fuse-link bolts                                                           | mm              | M5/73    |          | M5/73    | M5/73, M8/94        | M5/73, M8/94        |         |
| Weight without accessories                                                                       | 3-pole switch fuses                                                                   | kg              | 1.3      | 1.3      | 1.3      | 1.5                 | 1.5                 |         |
|                                                                                                  | 4-pole switch fuses                                                                   | kg              | 1.6      | 1.6      | 1.6      | 1.8                 | 1.8                 |         |
| Built-in terminal size                                                                           | Cu                                                                                    | mm <sup>2</sup> | 2.5...25 | 2.5...25 | 2.5...25 |                     |                     |         |
| Terminal bolt size (included)                                                                    | Metric thread diameter x length                                                       | mm              |          |          |          | M8x25               | M8x25               |         |
| Terminal tightening torque                                                                       | Counter torque required                                                               | Nm              | 3.5      | 3.5      | 3.5      | 15-22               | 15-22               |         |
| Fuse-links bolts tightening torque                                                               |                                                                                       | Nm              | 3.5      |          | 3.5      | M5:3.5              | M5:3.5              |         |
|                                                                                                  |                                                                                       |                 |          |          |          | M8:5                | M8:5                |         |
| Operating torque                                                                                 | Typical for 3-pole switch fuses                                                       | Nm              | 5        | 5        | 5        | 7                   | 7                   |         |

<sup>1)</sup> Ambient temperature 60 °C: derating 20%.

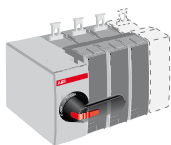
<sup>2)</sup> Acc. to IEC 60947-1, § 6.1.1.

<sup>3)</sup> Max. fuse body diam. 32 mm.

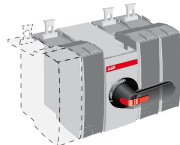
<sup>4)</sup> Some fuse links limit these figures further. Starting current characteristics must be considered separately

The technical data is valid at the time of printing. We reserve the right to subsequent alterations.

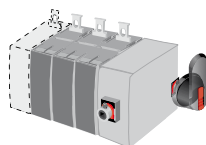
### Placing options of the operating mechanism



At the end of the switch fuse OS\_03 or 04



Between the poles OS\_12 or 22



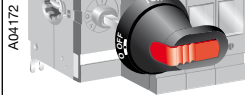
Side operated types OS\_30 or 40 OS\_03 or 04

# Switch fuses OS32G...160G\_, DIN-types

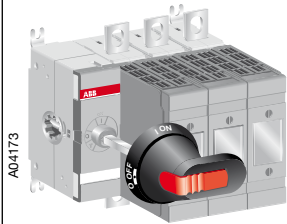
## Ordering information

### Front operated switch fuses

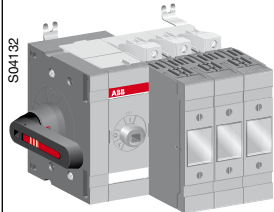
Including a black ON-OFF plastic handle and shaft as standard. OS32G...63G\_ include protected tunnel terminals (IP20) and OS125G...160G include a terminal bolt kit. The handle is IP65 protected, padlockable in the OFF-position and with door interlock in the ON-position and when padlocked. The shaft is adjustable for a range of installation depths.



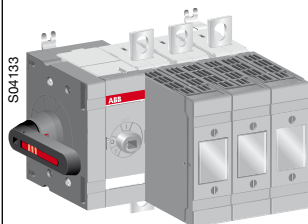
OS32G...63G\_03P



OS125G...160G\_03P



OS32G...63GDS\_  
(handle and the shaft to be  
ordered separately)



OS125G...160GDS\_  
(handle and the shaft to be  
ordered separately)

| Rated op.<br>current<br>AC-20...23<br>≤ 690V<br>[A] | Rated op.<br>power<br>AC-23<br>400/500/690V<br>[kW] | Fuse<br>size | Number<br>of<br>poles | Type | Order number | Units/<br>type<br>[pcs] | Weight/<br>unit<br>[kg] |
|-----------------------------------------------------|-----------------------------------------------------|--------------|-----------------------|------|--------------|-------------------------|-------------------------|
|-----------------------------------------------------|-----------------------------------------------------|--------------|-----------------------|------|--------------|-------------------------|-------------------------|

#### Mechanism between the poles

|     |            |         |   |              |                 |   |     |
|-----|------------|---------|---|--------------|-----------------|---|-----|
| 32  | 15/18.5/22 | 000     | 3 | OS32GD12P    | 1SCA114581R1001 | 1 | 1.3 |
| 32  | 15/18.5/22 | 000     | 4 | OS32GD22N2P  | 1SCA115202R1001 | 1 | 1.6 |
| 63  | 30/37/55   | 000     | 3 | OS63GD12P    | 1SCA115227R1001 | 1 | 1.3 |
| 63  | 30/37/55   | 000     | 4 | OS63GD22N2P  | 1SCA115230R1001 | 1 | 1.6 |
| 125 | 55/75/110  | 000, 00 | 3 | OS125GD12P   | 1SCA115641R1001 | 1 | 1.5 |
| 125 | 55/75/110  | 000, 00 | 4 | OS125GD22N2P | 1SCA115880R1001 | 1 | 1.8 |
| 160 | 75/90/132  | 000, 00 | 3 | OS160GD12P   | 1SCA115643R1001 | 1 | 1.5 |
| 160 | 75/90/132  | 000, 00 | 4 | OS160GD22N2P | 1SCA115884R1001 | 1 | 1.8 |

#### Mechanism at the end of the switch fuse

|     |            |         |   |              |                 |   |     |
|-----|------------|---------|---|--------------|-----------------|---|-----|
| 32  | 15/18.5/22 | 000     | 3 | OS32GD03P    | 1SCA115189R1001 | 1 | 1.3 |
| 32  | 15/18.5/22 | 000     | 4 | OS32GD04N2P  | 1SCA115193R1001 | 1 | 1.6 |
| 63  | 30/37/55   | 000     | 3 | OS63GD03P    | 1SCA115207R1001 | 1 | 1.3 |
| 63  | 30/37/55   | 000     | 4 | OS63GD04N2P  | 1SCA115209R1001 | 1 | 1.6 |
| 125 | 55/75/110  | 000, 00 | 3 | OS125GD03P   | 1SCA115639R1001 | 1 | 1.5 |
| 125 | 55/75/110  | 000, 00 | 4 | OS125GD04N2P | 1SCA115877R1001 | 1 | 1.8 |
| 160 | 75/90/132  | 000, 00 | 3 | OS160GD03P   | 1SCA115399R1001 | 1 | 1.5 |
| 160 | 75/90/132  | 000, 00 | 4 | OS160GD04N2P | 1SCA115882R1001 | 1 | 1.8 |

### Side operated switch fuses without handle and shaft

OS32G...63G\_ include protected tunnel terminals (IP20) and OS125G...160G include a terminal bolt kit.

| Rated op.<br>current<br>AC-20...23<br>≤ 690V<br>[A] | Rated op.<br>power<br>AC-23<br>400/500/690V<br>[kW] | Fuse<br>size | Number<br>of<br>poles | Type         | Order number    | Units/<br>type<br>[pcs] | Weight/<br>unit<br>[kg] |
|-----------------------------------------------------|-----------------------------------------------------|--------------|-----------------------|--------------|-----------------|-------------------------|-------------------------|
| 32                                                  | 15/18.5/22                                          | 000          | 3                     | OS32GDS30    | 1SCA115963R1001 | 1                       | 1.3                     |
| 32                                                  | 15/18.5/22                                          | 000          | 4                     | OS32GDS40N2  | 1SCA116046R1001 | 1                       | 1.6                     |
| 63                                                  | 30/37/55                                            | 000          | 3                     | OS63GDS30    | 1SCA116007R1001 | 1                       | 1.3                     |
| 63                                                  | 30/37/55                                            | 000          | 4                     | OS63GDS40N2  | 1SCA116047R1001 | 1                       | 1.6                     |
| 125                                                 | 55/75/110                                           | 000, 00      | 3                     | OS125GDS30   | 1SCA115966R1001 | 1                       | 1.5                     |
| 125                                                 | 55/75/110                                           | 000, 00      | 4                     | OS125GDS40N2 | 1SCA115967R1001 | 1                       | 1.8                     |
| 160                                                 | 75/90/132                                           | 000, 00      | 3                     | OS160GDS30   | 1SCA115968R1001 | 1                       | 1.5                     |
| 160                                                 | 75/90/132                                           | 000, 00      | 4                     | OS160GDS40N2 | 1SCA115969R1001 | 1                       | 1.8                     |

### Shafts and handles included as standard / Front operated switch fuses

| Suitable for switches          | Included shaft | Included handle    | Included terminal bolts |
|--------------------------------|----------------|--------------------|-------------------------|
| OS32G...63G_<br>OS125G...160G_ | OX P6X161      | OHB45J6<br>OHB65J6 | M8x25                   |

OS\_N2\_ = Non-fused neutral on the right side

# Switch fuses OS32G...160G\_, BS-types

## Ordering information



### Front operated switch fuses

Including a black ON-OFF plastic handle and shaft as standard. OS32G...63G\_ include protected tunnel terminals (IP20) and OS125G...160G include a terminal bolt kit. The handle is IP65 protected, padlockable in the OFF-position and with door interlock in the ON-position and when padlocked. The shaft is adjustable for a range of installation depths.

| Rated op. current<br>AC-20...23<br>≤ 690V<br>[A] | Rated op. power<br>AC-23<br>400/500/690V<br>[kW] | Fuse size | Number of poles | Type | Order number | Units/<br>type<br>[pcs] | Weight/<br>unit<br>[kg] |
|--------------------------------------------------|--------------------------------------------------|-----------|-----------------|------|--------------|-------------------------|-------------------------|
|--------------------------------------------------|--------------------------------------------------|-----------|-----------------|------|--------------|-------------------------|-------------------------|

#### Mechanism between the poles

|     |            |                          |   |              |                 |   |     |
|-----|------------|--------------------------|---|--------------|-----------------|---|-----|
| 32  | 15/18.5/22 | A2, A3                   | 3 | OS32GB12P    | 1SCA115331R1001 | 1 | 1.3 |
| 32  | 15/18.5/22 | A2, A3                   | 4 | OS32GB22N1P  | 1SCA115345R1001 | 1 | 1.6 |
| 63  | 30/37/55   | A2, A3                   | 3 | OS63GB12P    | 1SCA115325R1001 | 1 | 1.3 |
| 63  | 30/37/55   | A2, A3                   | 4 | OS63GB22N1P  | 1SCA114601R1001 | 1 | 1.6 |
| 125 | 55/75/110  | A2, A3, A4 <sup>1)</sup> | 3 | OS125GB12P   | 1SCA114603R1001 | 1 | 1.5 |
| 125 | 55/75/110  | A2, A3, A4 <sup>1)</sup> | 4 | OS125GB22N1P | 1SCA115903R1001 | 1 | 1.8 |
| 160 | 75/90/132  | A2, A3, A4 <sup>1)</sup> | 3 | OS160GB12P   | 1SCA115637R1001 | 1 | 1.5 |
| 160 | 75/90/132  | A2, A3, A4 <sup>1)</sup> | 4 | OS160GB22N1P | 1SCA115899R1001 | 1 | 1.8 |

#### Mechanism at the end of the switch fuse

|     |            |                          |   |              |                 |   |     |
|-----|------------|--------------------------|---|--------------|-----------------|---|-----|
| 32  | 15/18.5/22 | A2, A3                   | 3 | OS32GB03P    | 1SCA115259R1001 | 1 | 1.3 |
| 32  | 15/18.5/22 | A2, A3                   | 4 | OS32GB04N1P  | 1SCA114610R1001 | 1 | 1.6 |
| 63  | 30/37/55   | A2, A3                   | 3 | OS63GB03P    | 1SCA115235R1001 | 1 | 1.3 |
| 63  | 30/37/55   | A2, A3                   | 4 | OS63GB04N1P  | 1SCA115238R1001 | 1 | 1.6 |
| 125 | 55/75/110  | A2, A3, A4 <sup>1)</sup> | 3 | OS125GB03P   | 1SCA115634R1001 | 1 | 1.5 |
| 125 | 55/75/110  | A2, A3, A4 <sup>1)</sup> | 4 | OS125GB04N1P | 1SCA115901R1001 | 1 | 1.8 |
| 160 | 75/90/132  | A2, A3, A4 <sup>1)</sup> | 3 | OS160GB03P   | 1SCA115413R1001 | 1 | 1.5 |
| 160 | 75/90/132  | A2, A3, A4 <sup>1)</sup> | 4 | OS160GB04N1P | 1SCA115896R1001 | 1 | 1.8 |

### Side operated switch fuses without handle and shaft

OS32G...63G\_ include protected tunnel terminals (IP20) and OS125G...160G include a terminal bolt kit.

| Rated op. current<br>AC-20...23<br>≤ 690V<br>[A] | Rated op. power<br>AC-23<br>400/500/690V<br>[kW] | Fuse size | Number of poles | Type | Order number | Units/<br>type<br>[pcs] | Weight/<br>unit<br>[kg] |
|--------------------------------------------------|--------------------------------------------------|-----------|-----------------|------|--------------|-------------------------|-------------------------|
|--------------------------------------------------|--------------------------------------------------|-----------|-----------------|------|--------------|-------------------------|-------------------------|

|     |            |                          |   |              |                 |   |     |
|-----|------------|--------------------------|---|--------------|-----------------|---|-----|
| 32  | 15/18.5/22 | A2, A3                   | 3 | OS32GBS30    | 1SCA115955R1001 | 1 | 1.3 |
| 32  | 15/18.5/22 | A2, A3                   | 4 | OS32GBS40N1  | 1SCA115956R1001 | 1 | 1.6 |
| 63  | 30/37/55   | A2, A3                   | 3 | OS63GBS30    | 1SCA115957R1001 | 1 | 1.3 |
| 63  | 30/37/55   | A2, A3                   | 4 | OS63GBS40N1  | 1SCA115978R1001 | 1 | 1.6 |
| 125 | 55/75/110  | A2, A3, A4 <sup>1)</sup> | 3 | OS125GBS30   | 1SCA116048R1001 | 1 | 1.5 |
| 125 | 55/75/110  | A2, A3, A4 <sup>1)</sup> | 4 | OS125GBS40N1 | 1SCA115959R1001 | 1 | 1.8 |
| 160 | 75/90/132  | A2, A3, A4 <sup>1)</sup> | 3 | OS160GBS30   | 1SCA115960R1001 | 1 | 1.5 |
| 160 | 75/90/132  | A2, A3, A4 <sup>1)</sup> | 4 | OS160GBS40N1 | 1SCA115961R1001 | 1 | 1.8 |

### Shafts and handles included as standard / Front operated switch fuses

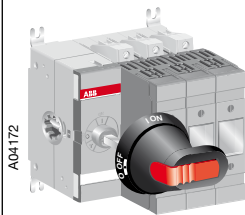
| Suitable for switches | Included shaft | Included handle | Included terminal bolts |
|-----------------------|----------------|-----------------|-------------------------|
|-----------------------|----------------|-----------------|-------------------------|

|                                |                                    |  |       |
|--------------------------------|------------------------------------|--|-------|
| OS32G...63G_<br>OS125G...160G_ | OXF6X161OHB45J6<br>OXF6X161OHB65J6 |  | M8x25 |
|--------------------------------|------------------------------------|--|-------|

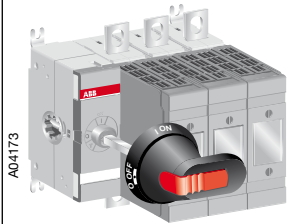
1) Max. fuse diameter 32 mm  
OS\_N1\_ = Non-fused neutral on the left side

# Switch fuses OS32G...160G\_, NFC-types

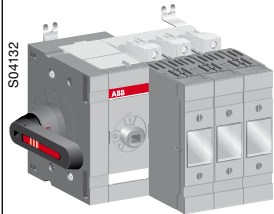
## Ordering information



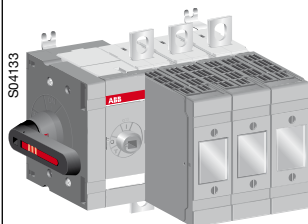
OS50G\_03P



OS125G\_03P



OS50GFS\_  
(handle and the shaft to be  
ordered separately)



OS125GFS\_  
(handle and the shaft to be  
ordered separately)

### Front operated switch fuses

Including a black ON-OFF plastic handle and shaft as standard. OS50G\_ include protected tunnel terminals (IP20) and OS125G include a terminal bolt kit. The handle is IP65 protected, padlockable in the OFF-position and with door interlock in the ON-position and when padlocked. The shaft is adjustable for a range of installation depths.

| Rated op. current<br>AC-20...23<br>≤ 690V<br>[A] | Rated op. power<br>AC-23<br>400/500/690V<br>[kW] | Fuse size | Number of poles | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|--------------------------------------------------|--------------------------------------------------|-----------|-----------------|------|--------------|-------------------|-------------------|
|--------------------------------------------------|--------------------------------------------------|-----------|-----------------|------|--------------|-------------------|-------------------|

#### Mechanism between the poles

|     |           |       |   |              |                 |   |     |
|-----|-----------|-------|---|--------------|-----------------|---|-----|
| 50  | 22/30/37  | 14x51 | 3 | OS50GF12P    | 1SCA115553R1001 | 1 | 1.3 |
| 50  | 22/30/37  | 14x51 | 4 | OS50GF22N1P  | 1SCA114622R1001 | 1 | 1.6 |
| 50  | 22/30/37  | 14x51 | 4 | OS50GF22FP   | 1SCA114623R1001 | 1 | 1.6 |
| 125 | 55/75/110 | 22x58 | 3 | OS125GF12P   | 1SCA114624R1001 | 1 | 1.5 |
| 125 | 55/75/110 | 22x58 | 4 | OS125GF22N1P | 1SCA115893R1001 | 1 | 1.8 |
| 125 | 55/75/110 | 22x58 | 4 | OS125GF22FP  | 1SCA115614R1001 | 1 | 1.8 |

#### Mechanism at the end of the switch fuse

|     |           |       |   |              |                 |   |     |
|-----|-----------|-------|---|--------------|-----------------|---|-----|
| 50  | 22/30/37  | 14x51 | 3 | OS50GF03P    | 1SCA115492R1001 | 1 | 1.3 |
| 50  | 22/30/37  | 14x51 | 4 | OS50GF04N1P  | 1SCA115495R1001 | 1 | 1.6 |
| 50  | 22/30/37  | 14x51 | 4 | OS50GF04FP   | 1SCA115498R1001 | 1 | 1.6 |
| 125 | 55/75/110 | 22x58 | 3 | OS125GF03P   | 1SCA115602R1001 | 1 | 1.5 |
| 125 | 55/75/110 | 22x58 | 4 | OS125GF04N1P | 1SCA115888R1001 | 1 | 1.8 |
| 125 | 55/75/110 | 22x58 | 4 | OS125GF04FP  | 1SCA115606R1001 | 1 | 1.8 |

### Side operated switch fuses without handle and shaft

OS50G\_ include protected tunnel terminals (IP20) and OS125G include a terminal bolt kit.

| Rated op. current<br>AC-20...23<br>≤ 690V<br>[A] | Rated op. power<br>AC-23<br>400/500/690V<br>[kW] | Fuse size | Number of poles | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|--------------------------------------------------|--------------------------------------------------|-----------|-----------------|------|--------------|-------------------|-------------------|
|--------------------------------------------------|--------------------------------------------------|-----------|-----------------|------|--------------|-------------------|-------------------|

|     |           |       |   |              |                 |   |     |
|-----|-----------|-------|---|--------------|-----------------|---|-----|
| 50  | 22/30/37  | 14x51 | 3 | OS50GFS30    | 1SCA116050R1001 | 1 | 1.3 |
| 50  | 22/30/37  | 14x51 | 4 | OS50GFS40N1  | 1SCA116058R1001 | 1 | 1.6 |
| 50  | 22/30/37  | 14x51 | 4 | OS50GFS40F   | 1SCA116014R1001 | 1 | 1.6 |
| 125 | 55/75/110 | 22x58 | 3 | OS125GFS30   | 1SCA115973R1001 | 1 | 1.5 |
| 125 | 55/75/110 | 22x58 | 4 | OS125GFS40N1 | 1SCA115974R1001 | 1 | 1.8 |
| 125 | 55/75/110 | 22x58 | 4 | OS125GFS40F  | 1SCA115975R1001 | 1 | 1.8 |

### Shafts and handles included as standard / Front operated switch fuses

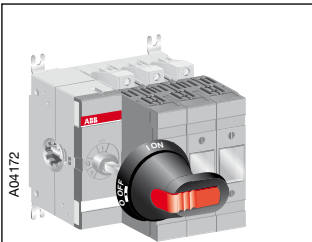
| Suitable for switches | Included shaft | Included handle | Included terminal bolts |
|-----------------------|----------------|-----------------|-------------------------|
|-----------------------|----------------|-----------------|-------------------------|

|         |          |         |       |
|---------|----------|---------|-------|
| OS50G_  | OXF6X161 | OHB45J6 |       |
| OS125G_ | OXF6X161 | OHB65J6 | M8x25 |

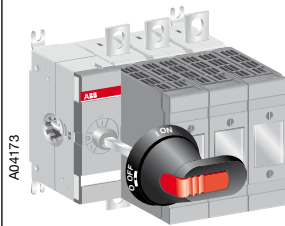
OS\_N1\_ = Non-fused neutral on the left side  
OS\_F\_ = Fused neutral

# Switch fuses OS32G...160G\_, UL-types

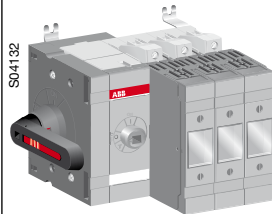
## Ordering information



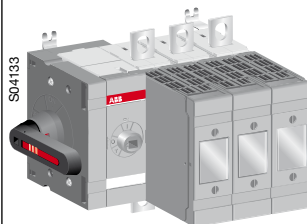
OS60G\_03P



OS100G\_03P



OS60GJS\_  
(handle and the shaft to be  
ordered separately)



OS100GJS\_  
(handle and the shaft to be  
ordered separately)

### Front operated switch fuses

Including a black ON-OFF plastic handle and shaft as standard. OS60G\_ include protected tunnel terminals (IP20) and OS100G\_ include a terminal bolt kit. The handle is IP65 protected, Nema type 1, 3R, 12, padlockable in the OFF-position and with door interlock in the ON-position and when padlocked. The shaft is adjustable for a range of installation depths.

| Ampere rating [A] | Horse power ratings 3-phase 240/480/600V [HP] | Fuse size | Number of poles | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|-------------------|-----------------------------------------------|-----------|-----------------|------|--------------|-------------------|-------------------|
|-------------------|-----------------------------------------------|-----------|-----------------|------|--------------|-------------------|-------------------|

### Mechanism between the poles

|     |          |         |   |             |                 |   |     |
|-----|----------|---------|---|-------------|-----------------|---|-----|
| 60  | 15/30/50 | J, 60A  | 3 | OS60GJ12P   | 1SCA115449R1001 | 1 | 1.3 |
| 60  | 15/30/50 | J, 60A  | 4 | OS60GJ22FP  | 1SCA115469R1001 | 1 | 1.6 |
| 100 | 30/60/75 | J, 100A | 3 | OS100GJ12P  | 1SCA115666R1001 | 1 | 1.5 |
| 100 | 30/60/75 | J, 100A | 4 | OS100GJ22FP | 1SCA114636R1001 | 1 | 1.8 |

### Mechanism at the end of the switch fuse

|     |          |         |   |             |                 |   |     |
|-----|----------|---------|---|-------------|-----------------|---|-----|
| 60  | 15/30/50 | J, 60A  | 3 | OS60GJ03P   | 1SCA115443R1001 | 1 | 1.3 |
| 60  | 15/30/50 | J, 60A  | 4 | OS60GJ04FP  | 1SCA115446R1001 | 1 | 1.6 |
| 100 | 30/60/75 | J, 100A | 3 | OS100GJ03P  | 1SCA114639R1001 | 1 | 1.5 |
| 100 | 30/60/75 | J, 100A | 4 | OS100GJ04FP | 1SCA115439R1001 | 1 | 1.8 |

### Side operated switch fuses without handle and shaft

OS60G\_ include protected tunnel terminals (IP20) and OS100G include a terminal bolt kit.

| Ampere rating [A] | Horse power ratings 3-phase 240/480/600V [HP] | Fuse size | Number of poles | Type | Order number | Units/ type [pcs] | Weight/ unit [kg] |
|-------------------|-----------------------------------------------|-----------|-----------------|------|--------------|-------------------|-------------------|
|-------------------|-----------------------------------------------|-----------|-----------------|------|--------------|-------------------|-------------------|

|     |          |         |   |             |                 |   |     |
|-----|----------|---------|---|-------------|-----------------|---|-----|
| 60  | 15/30/50 | J, 60A  | 3 | OS60GJS30   | 1SCA116051R1001 | 1 | 1.3 |
| 60  | 15/30/50 | J, 60A  | 4 | OS60GJS40F  | 1SCA115970R1001 | 1 | 1.6 |
| 100 | 30/60/75 | J, 100A | 3 | OS100GJS30  | 1SCA115971R1001 | 1 | 1.5 |
| 100 | 30/60/75 | J, 100A | 4 | OS100GJS40F | 1SCA115972R1001 | 1 | 1.8 |

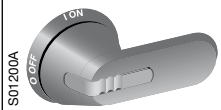
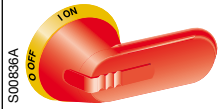
### Shafts and handles included as standard / Front operated switch fuses

| Suitable for switches | Included shaft | Included handle | Included terminal bolts |
|-----------------------|----------------|-----------------|-------------------------|
|-----------------------|----------------|-----------------|-------------------------|

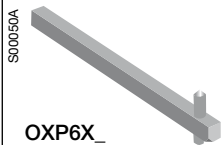
|         |          |         |       |
|---------|----------|---------|-------|
| OS60G_  | OXp6X161 | OHB45J6 |       |
| OS100G_ | OXp6X161 | OHB65J6 | M8x25 |

# Switch fuses OS32G...160G\_, NFC-types

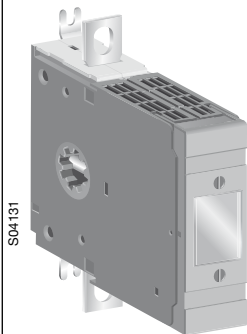
## Ordering information



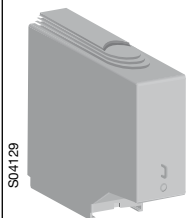
OH\_65J\_



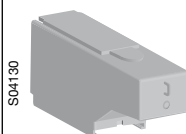
OSP6X\_



OSP\_



OSS\_L



OSS\_S

### Optional handles, IP 65

For front operated switch fuses

Padlockable with 3 padlocks in the OFF-position, door interlock in the ON-position. Units/type = 1 pcs. Screw fixing from the back side of the handle, no screws on the front, ensures double protection.

| Colour | Handle length [mm] | Type | Order number | Delivery batch [pcs] | Weight /unit [kg] |
|--------|--------------------|------|--------------|----------------------|-------------------|
|--------|--------------------|------|--------------|----------------------|-------------------|

For shaft diameter 6 mm

Plastic handles, black and red-yellow: I-O/ON-OFF, grey: I-O.

|            |    |         |                 |     |      |
|------------|----|---------|-----------------|-----|------|
| Black      | 45 | OHB45J6 | 1SCA022380R8770 | 100 | 0.12 |
| Red-Yellow | 45 | OHY45J6 | 1SCA022380R8930 | 100 | 0.12 |
| Black      | 65 | OHB65J6 | 1SCA022380R9660 | 100 | 0.12 |
| Red-Yellow | 65 | OHY65J6 | 1SCA022380R9820 | 100 | 0.12 |
| Grey       | 65 | OHG65J6 | 1SCA022380R9740 | 100 | 0.12 |

Plastic handles, black and red-yellow: Test/I-O/ON-OFF, grey: Test/I-O.

|            |    |          |                 |     |      |
|------------|----|----------|-----------------|-----|------|
| Black      | 45 | OHB45J6T | 1SCA109870R1001 | 100 | 0.12 |
| Black      | 65 | OHB65J6T | 1SCA022399R8110 | 100 | 0.12 |
| Red-Yellow | 65 | OHY65J6T | 1SCA022456R9540 | 100 | 0.12 |
| Grey       | 65 | OHG65J6T | 1SCA022456R9620 | 100 | 0.12 |

### Extended shafts

Units/type = 1 piece

| Shaft length [mm] | Front operated H / [mm] | Side operated H / [mm] | Type | Order number | Delivery batch [pcs] | Weight /unit [kg] |
|-------------------|-------------------------|------------------------|------|--------------|----------------------|-------------------|
|-------------------|-------------------------|------------------------|------|--------------|----------------------|-------------------|

For OS 32...63<sup>2)</sup>, shaft diameter 6 mm

|     |           |           |                           |                 |    |      |
|-----|-----------|-----------|---------------------------|-----------------|----|------|
| 150 | 130...249 | 210...272 | OSP6X150                  | 1SCA022295R5600 | 10 | 0.05 |
| 161 | 141...260 | 221...283 | OSP6X161 <sup>3)</sup>    | 1SCA022067R1760 | 10 | 0.05 |
| 210 | 190...309 | 270...332 | OSP6X210                  | 1SCA022295R6080 | 10 | 0.06 |
| 290 | 270...389 | 350...412 | OSP6X290                  | 1SCA022042R6370 | 10 | 0.08 |
| 360 | 340...459 | 420...482 | OSP6X360                  | 1SCA022042R6530 | 10 | 0.1  |
| 430 | 410...529 | 490...552 | OSP6X430                  | 1SCA022056R6030 | 10 | 0.12 |
| 210 | 190...309 | 270...332 | OSP6X210-45 <sup>1)</sup> | 1SCA022294R4230 | 10 | 0.06 |
| 290 | 270...389 | 350...412 | OSP6X290-45 <sup>1)</sup> | 1SCA022304R4290 | 10 | 0.08 |

For OS 100...160<sup>2)</sup>, shaft diameter 6 mm

|     |           |             |                           |                 |    |      |
|-----|-----------|-------------|---------------------------|-----------------|----|------|
| 150 | 140...252 | 202.5...316 | OSP6X150                  | 1SCA022295R5600 | 10 | 0.05 |
| 161 | 140...263 | 202.5...327 | OSP6X161 <sup>3)</sup>    | 1SCA022067R1760 | 10 | 0.05 |
| 210 | 189...312 | 206...376   | OSP6X210                  | 1SCA022295R6080 | 10 | 0.06 |
| 290 | 269...392 | 286...456   | OSP6X290                  | 1SCA022042R6370 | 10 | 0.08 |
| 360 | 339...462 | 345...515   | OSP6X360                  | 1SCA022042R6530 | 10 | 0.1  |
| 430 | 409...532 | 415...585   | OSP6X430                  | 1SCA022056R6030 | 10 | 0.12 |
| 210 | 189...312 | 206...376   | OSP6X210-45 <sup>1)</sup> | 1SCA022294R4230 | 10 | 0.06 |
| 290 | 269...392 | 286...456   | OSP6X290-45 <sup>1)</sup> | 1SCA022304R4290 | 10 | 0.08 |

### Fourth Poles

Snap-on mounting to the side of the switch.

| Suitable for 3-pole switches | Mounting side | Type     | Order number    | Units/ type [pcs] | Weight [kg] |
|------------------------------|---------------|----------|-----------------|-------------------|-------------|
| <b>Fusible 4. poles</b>      |               |          |                 |                   |             |
| OS125G_...160G_, DIN-type    | Left/right    | OSP160GD | 1SCA114768R1001 | 1                 | 0.40        |
| OS125G_...160G_, BS-type     | Left/right    | OSP160GB | 1SCA114769R1001 | 1                 | 0.40        |
| <b>Switched 4. poles</b>     |               |          |                 |                   |             |
| OS100G_...160G_, N-type      | Left/right    | OSP160GN | 1SCA114770R1001 | 1                 | 0.40        |

### Terminal shrouds

| Suitable for switches | Number of poles | Description | Type | Order number | Units/ type [pcs] | Weight [kg] |
|-----------------------|-----------------|-------------|------|--------------|-------------------|-------------|
|-----------------------|-----------------|-------------|------|--------------|-------------------|-------------|

Pack of single pole terminal shrouds, snap-on mounting, grey plastic, IP 3X. Transparent shrouds available on request.

|                 |   |            |              |                 |   |      |
|-----------------|---|------------|--------------|-----------------|---|------|
| OS100G_...160G_ | 3 | Long type  | OSS160GG1L/3 | 1SCA114764R1001 | 3 | 0.10 |
| OS100G_...160G_ | 3 | Short type | OSS160GG1S/3 | 1SCA114766R1001 | 3 | 0.07 |
| OS100G_...160G_ | 4 | Long type  | OSS160GG1L/4 | 1SCA114765R1001 | 4 | 0.12 |
| OS100G_...160G_ | 4 | Short type | OSS160GG1S/4 | 1SCA114767R1001 | 4 | 0.08 |

<sup>1)</sup> The shaft position is rotated 45 degrees

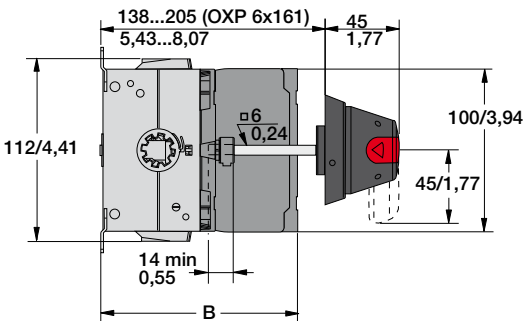
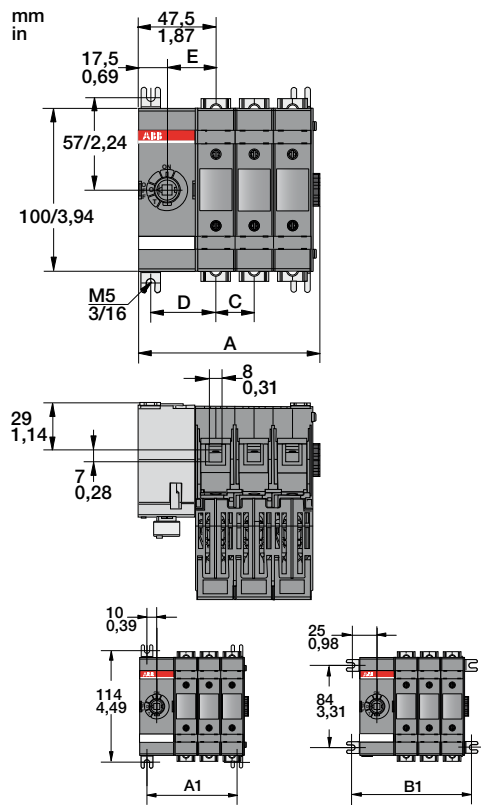
<sup>2)</sup> Side operated, 4-pole: OS 32...63: add 45 mm, OS 100...160: add 35 mm

<sup>3)</sup> Included as standard

Switch fuses OS32G...160G\_

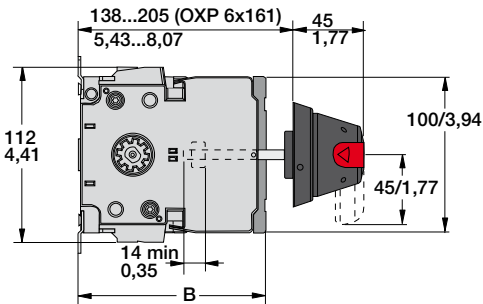
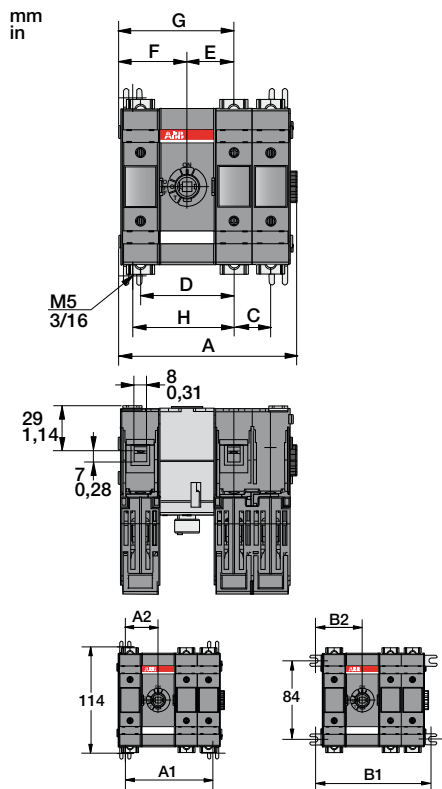
Dimension drawings

OS32...63G\_



M00287/OS32-63G\_01-04 A

|    | OS32-63GD |       |       |       | OS32-63GB/F |       |       |       | OS60GJ    |            |            |            |
|----|-----------|-------|-------|-------|-------------|-------|-------|-------|-----------|------------|------------|------------|
|    | mm        |       |       |       | mm          |       |       |       | mm / in   |            |            |            |
|    | D01       | D02   | D03   | D04   | B/F01       | B/F02 | B/F03 | B/F04 | J01       | J02        | J03        | J04        |
| A  | 64,5      | 88    | 111,5 | 135,5 | 64,5        | 88    | 111,5 | 135,5 | 74,5/2,93 | 109,5/4,31 | 144,5/5,69 | 179,5/7,07 |
| B  | 120,5     | 120,5 | 120,5 | 108,5 | 108,5       | 108,5 | 108,5 | 108,5 | 118/4,65  | 118/4,65   | 118/4,65   | 118/4,65   |
| C  | -         | 23,5  | 23,5  | 23,5  | -           | 23,5  | 23,5  | 23,5  | -         | 35/1,38    | 35/1,38    | 35/1,38    |
| D  | 40        | 40    | 40    | 40    | 40          | 40    | 40    | 40    | 45,5/1,79 | 45,5/1,79  | 45,5/1,79  | 45,5/1,79  |
| E  | 30        | 30    | 30    | 30    | 30          | 30    | 30    | 30    | 36/1,41   | 36/1,41    | 36/1,41    | 36/1,41    |
| A1 | 45        | 68,5  | 92    | 111,5 | 45          | 68,5  | 92    | 111,5 | 51/2,01   | 86/3,39    | 121/4,76   | 156/6,14   |
| B1 | 75        | 98,5  | 122   | 145,5 | 75          | 98,5  | 122   | 145,5 | 81/3,19   | 116/4,57   | 151/5,94   | 186/7,32   |



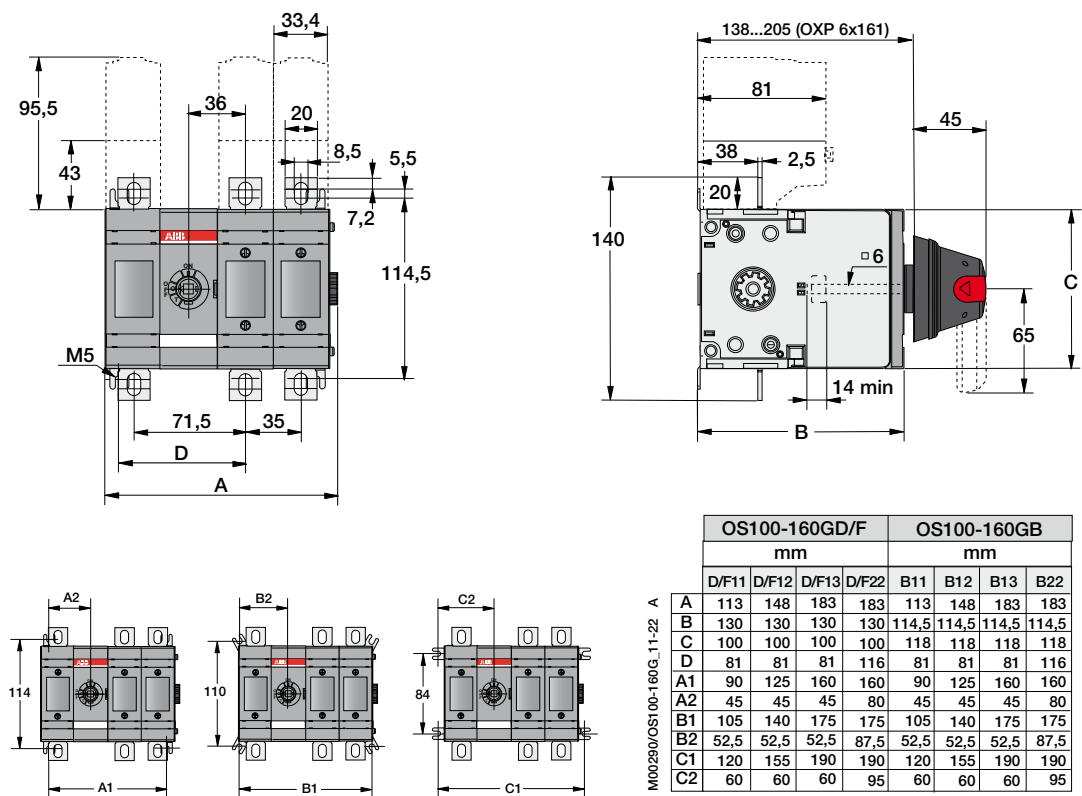
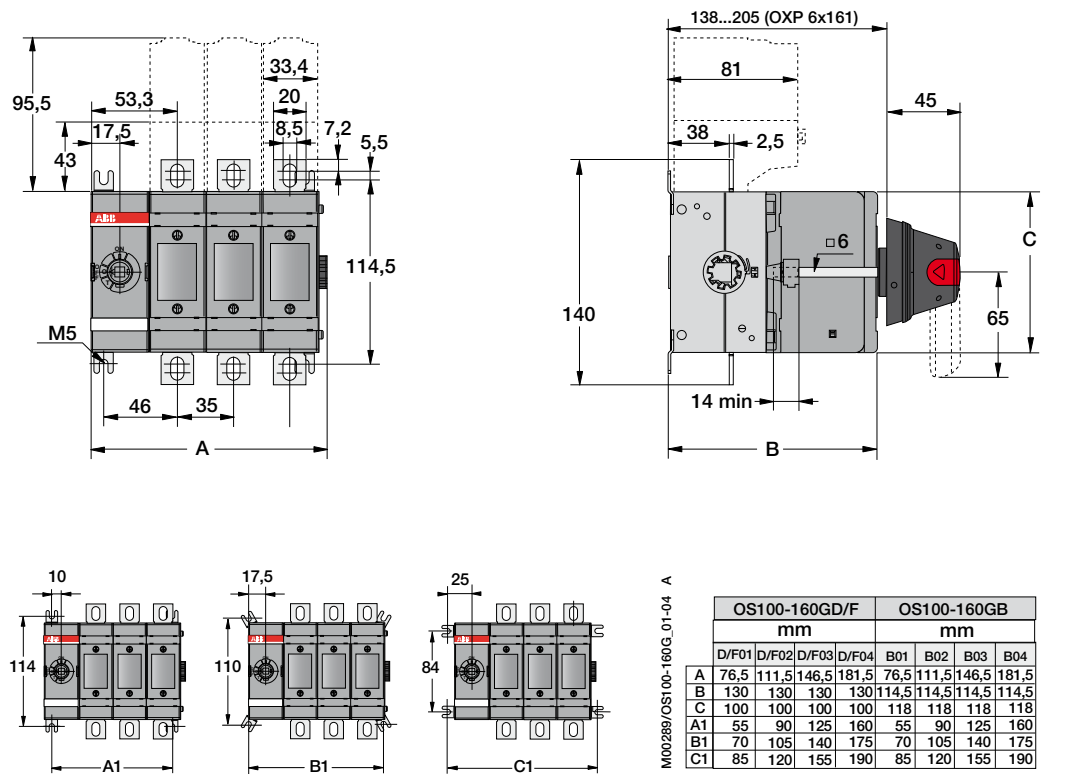
M00288/OS32-63G\_11-22 A

|    | OS32-63GD |       |       |       | OS32-63GB/F |       |       |       | OS60GJ     |            |            |            |
|----|-----------|-------|-------|-------|-------------|-------|-------|-------|------------|------------|------------|------------|
|    | mm        |       |       |       | mm          |       |       |       | mm / in    |            |            |            |
|    | D11       | D12   | D13   | D22   | B/F11       | B/F12 | B/F13 | B/F22 | J11        | J12        | J13        | J22        |
| A  | 91        | 114,5 | 138   | 138   | 91          | 114,5 | 138   | 138   | 74,5/2,93  | 148/5,82   | 183,5/7,20 | 179,5/8,58 |
| B  | 120,5     | 120,5 | 120,5 | 108,5 | 108,5       | 108,5 | 108,5 | 108,5 | 118/4,65   | 118/4,65   | 118/4,65   | 118/4,65   |
| C  | -         | 23,5  | 23,5  | 23,5  | -           | 23,5  | 23,5  | 23,5  | -          | 35/1,38    | 35/1,38    | 35/1,38    |
| D  | 60        | 60    | 60    | 60    | 60          | 60    | 60    | 60    | 71,5/2,81  | 71,5/2,81  | 71,5/2,81  | 71,5/2,81  |
| E  | 30        | 30    | 30    | 30    | 30          | 30    | 30    | 30    | 36/1,41    | 36/1,41    | 36/1,41    | 36/1,41    |
| F  | 44        | 44    | 44    | 67,5  | 44          | 44    | 44    | 67,5  | 55,5/2,19  | 55,5/2,19  | 55,5/2,19  | 90,5/3,56  |
| G  | 74        | 74    | 74    | 97,5  | 74          | 74    | 74    | 97,5  | 91,5/3,6   | 91,5/3,6   | 91,5/3,6   | 126,5/4,98 |
| A1 | 70        | 93,5  | 117   | 117   | 70          | 93,5  | 117   | 117   | 81,5/3,21  | 116,5/4,59 | 151,5/5,96 | 151,5/5,96 |
| A2 | 35        | 35    | 35    | 58,5  | 35          | 35    | 35    | 58,5  | 40,5/1,59  | 40,5/1,59  | 40,5/1,59  | 75,5/2,97  |
| B1 | 75        | 123,5 | 147   | 147   | 75          | 123,5 | 147   | 147   | 111,5/4,39 | 146,5/5,77 | 181,5/7,15 | 181,5/7,15 |
| B2 | 50        | 50    | 50    | 73,5  | 50          | 50    | 50    | 73,5  | 70,5/2,78  | 70,5/2,78  | 70,5/2,78  | 105,5/4,15 |

# Switch fuses OS32G...160G\_

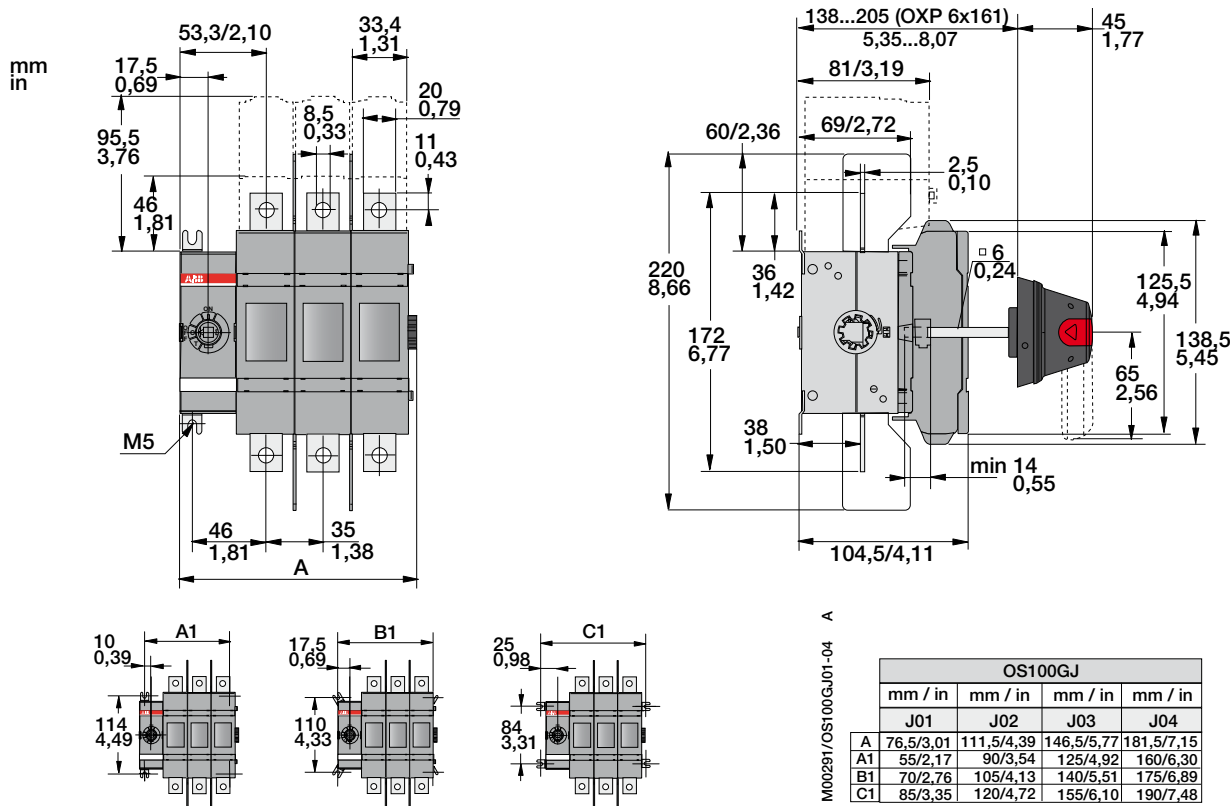
## Dimension drawings

### OS125...160G\_

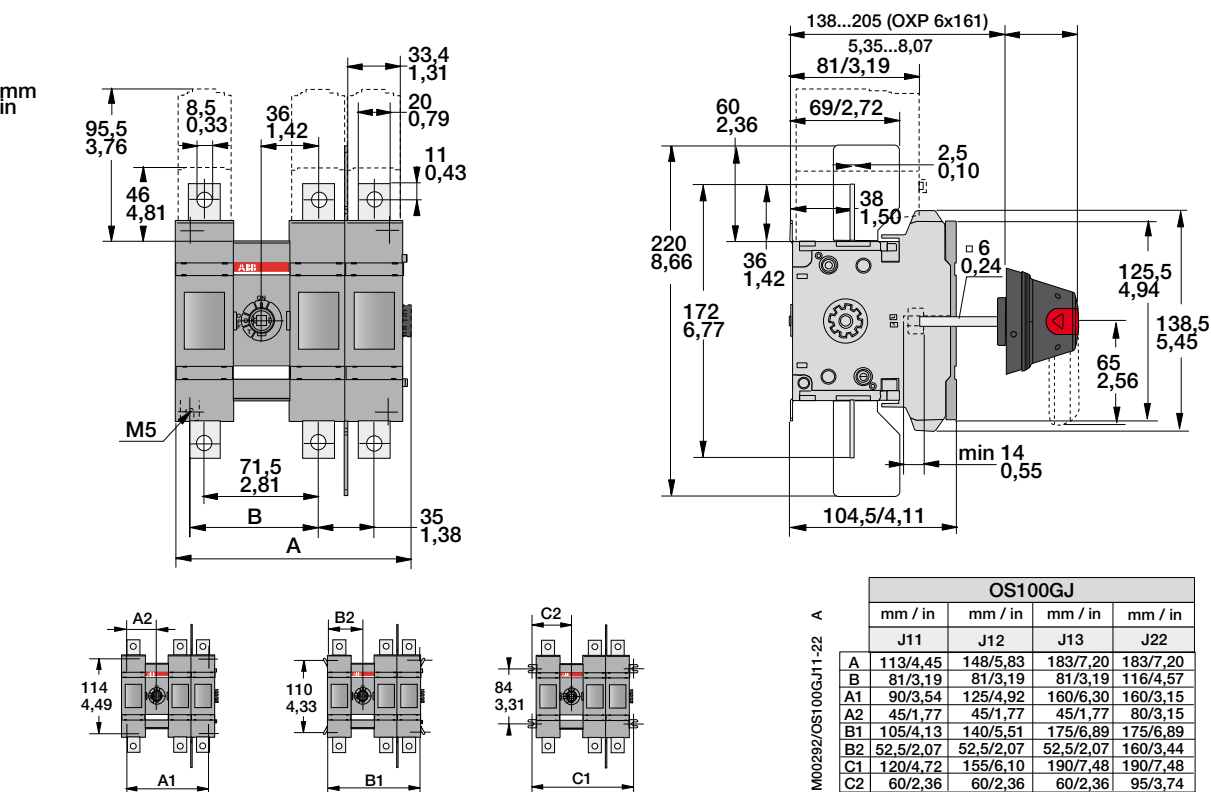


Switch fuses OS32G...160G\_  
Dimension drawings

OS100GJ\_



The measurements in the dimension drawings are preliminary and may be altered.



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