



Sample image

## Datasheet

**Article number:** 70003134

**Designation:** CA10.A293.PN1

**Description:** Switch

|                                                                                                                                                                                                                                                                                                                                                                                                          |                                 |                                          |                                                                |                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------|----------------------------------------------------------------|---------------------|
| IEC 60947-3 EN 60947-3, VDE 0660 Teil 107                                                                                                                                                                                                                                                                                                                                                                |                                 |                                          |                                                                |                     |
| Tension assignée d'isolement Ui                                                                                                                                                                                                                                                                                                                                                                          |                                 |                                          |                                                                |                     |
| Tension (V) AC / DC                                                                                                                                                                                                                                                                                                                                                                                      |                                 |                                          |                                                                |                     |
| 690 AC / DC                                                                                                                                                                                                                                                                                                                                                                                              |                                 |                                          |                                                                |                     |
| Tension assignée de tenue aux chocs Uimp                                                                                                                                                                                                                                                                                                                                                                 |                                 |                                          |                                                                |                     |
| Tension (kV)                                                                                                                                                                                                                                                                                                                                                                                             | Classe de protection surcharges | Degré de pollution                       | Type d'alimentation                                            | Fonction            |
| 4 III                                                                                                                                                                                                                                                                                                                                                                                                    |                                 | 3                                        | Valable pour un réseau triphasé avec le neutre à la terre      | Switch disconnector |
| Courant ininterrompu et thermique conventionnel Iu/Ith                                                                                                                                                                                                                                                                                                                                                   |                                 |                                          |                                                                |                     |
| Intensité (A)                                                                                                                                                                                                                                                                                                                                                                                            | Température Ambiante (°)        | Température Maxi (°)                     | Spécification complémentaire                                   |                     |
| 20                                                                                                                                                                                                                                                                                                                                                                                                       | 55                              | 60                                       | Température ambiante +55°C durant 24 heures avec point à +60°C |                     |
| Courant assigné d'emploi Ie                                                                                                                                                                                                                                                                                                                                                                              |                                 |                                          |                                                                |                     |
| Catégorie d'emploi                                                                                                                                                                                                                                                                                                                                                                                       |                                 |                                          | Tension (V)                                                    | Intensité (A)       |
| AC-15                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |                                          | 220 - 240                                                      | 6                   |
| AC-15                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |                                          | 380 - 440                                                      | 4                   |
| Puissance assignée d'emploi                                                                                                                                                                                                                                                                                                                                                                              |                                 |                                          |                                                                |                     |
| Catégorie d'emploi                                                                                                                                                                                                                                                                                                                                                                                       | Tension (V)                     | Nb de phases                             | Nb de pôles                                                    | Puissance (kW)      |
| AC-3                                                                                                                                                                                                                                                                                                                                                                                                     | 220 - 240                       | 3                                        | 3                                                              | 3                   |
| AC-3                                                                                                                                                                                                                                                                                                                                                                                                     | 380 - 440                       | 3                                        | 3                                                              | 5,50                |
| AC-3                                                                                                                                                                                                                                                                                                                                                                                                     | 660 - 690                       | 3                                        | 3                                                              | 5,50                |
| AC-3                                                                                                                                                                                                                                                                                                                                                                                                     | 220 - 240                       | 1                                        | 2                                                              | 2,20                |
| AC-3                                                                                                                                                                                                                                                                                                                                                                                                     | 380 - 440                       | 1                                        | 2                                                              | 3                   |
| AC-23A                                                                                                                                                                                                                                                                                                                                                                                                   | 220 - 240                       | 3                                        | 3                                                              | 3,70                |
| AC-23A                                                                                                                                                                                                                                                                                                                                                                                                   | 380 - 440                       | 3                                        | 3                                                              | 7,50                |
| AC-23A                                                                                                                                                                                                                                                                                                                                                                                                   | 660 - 690                       | 3                                        | 3                                                              | 7,50                |
| AC-23A                                                                                                                                                                                                                                                                                                                                                                                                   | 220 - 240                       | 1                                        | 2                                                              | 2,50                |
| AC-23A                                                                                                                                                                                                                                                                                                                                                                                                   | 380 - 440                       | 1                                        | 2                                                              | 3,70                |
| Protection par fusible (IEC)                                                                                                                                                                                                                                                                                                                                                                             |                                 |                                          |                                                                |                     |
| Caractéri                                                                                                                                                                                                                                                                                                                                                                                                |                                 |                                          | Nombre de fusible                                              | Intensité (A)       |
| gG                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |                                          | 1                                                              | 25                  |
| UL60947-4-1 , UL508                                                                                                                                                                                                                                                                                                                                                                                      |                                 |                                          |                                                                |                     |
| Nominal Voltage                                                                                                                                                                                                                                                                                                                                                                                          |                                 |                                          |                                                                |                     |
| Tension (V) AC / DC                                                                                                                                                                                                                                                                                                                                                                                      |                                 |                                          |                                                                |                     |
| 300 AC / DC                                                                                                                                                                                                                                                                                                                                                                                              |                                 |                                          |                                                                |                     |
| Tension assignée d'isolement Ui                                                                                                                                                                                                                                                                                                                                                                          |                                 |                                          |                                                                |                     |
| Tension (V) AC / DC                                                                                                                                                                                                                                                                                                                                                                                      |                                 |                                          |                                                                |                     |
| 300 AC                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                                          |                                                                |                     |
| Rated thermal current                                                                                                                                                                                                                                                                                                                                                                                    |                                 |                                          |                                                                |                     |
| Intensité (A)                                                                                                                                                                                                                                                                                                                                                                                            |                                 | Température Ambiante (°) Additional Text |                                                                |                     |
| 20                                                                                                                                                                                                                                                                                                                                                                                                       |                                 | 0 - 40 --                                |                                                                |                     |
| Horsepower rating                                                                                                                                                                                                                                                                                                                                                                                        |                                 |                                          |                                                                |                     |
| Across-the-Line Motor Starting                                                                                                                                                                                                                                                                                                                                                                           | Tension (V)                     | Nb de phases                             | Nb de pôles                                                    | Power (HP)          |
| Reversing                                                                                                                                                                                                                                                                                                                                                                                                | 110 - 120                       | 1                                        | 2                                                              | 0,17                |
| Reversing                                                                                                                                                                                                                                                                                                                                                                                                | 220 - 240                       | 1                                        | 2                                                              | 0,50                |
| Reversing                                                                                                                                                                                                                                                                                                                                                                                                | 277 - 277                       | 1                                        | 2                                                              | 0,60                |
| Reversing                                                                                                                                                                                                                                                                                                                                                                                                | 110 - 120                       | 3                                        | 3                                                              | 0,50                |
| Reversing                                                                                                                                                                                                                                                                                                                                                                                                | 220 - 240                       | 3                                        | 3                                                              | 1                   |
| DOL                                                                                                                                                                                                                                                                                                                                                                                                      | 110 - 120                       | 1                                        | 2                                                              | 0,50                |
| DOL                                                                                                                                                                                                                                                                                                                                                                                                      | 220 - 240                       | 1                                        | 2                                                              | 1                   |
| DOL                                                                                                                                                                                                                                                                                                                                                                                                      | 277 - 277                       | 1                                        | 2                                                              | 2                   |
| DOL                                                                                                                                                                                                                                                                                                                                                                                                      | 110 - 120                       | 3                                        | 3                                                              | 1,50                |
| DOL                                                                                                                                                                                                                                                                                                                                                                                                      | 220 - 240                       | 3                                        | 3                                                              | 3                   |
| Pilot duty rating code                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                                          |                                                                |                     |
| Duty Code                                                                                                                                                                                                                                                                                                                                                                                                |                                 |                                          |                                                                |                     |
| A300                                                                                                                                                                                                                                                                                                                                                                                                     |                                 |                                          |                                                                |                     |
| SCCR / Max. fuse rating                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                                          |                                                                |                     |
| Conditions of acceptability                                                                                                                                                                                                                                                                                                                                                                              |                                 |                                          |                                                                |                     |
| These devices are suitable for use on circuits capable of delivering not more than 5000 rms symmetrical amperes, 600V ac max. when protected by Class RK1 fuses. Manual Motor Controllers when intended for use as a motor disconnecter are suitable for use on a circuit capable of delivering not more than 5000 rms symmetrical amperes, 600V ac max. when protected by 30A Class J time delay fuses. |                                 |                                          |                                                                |                     |
| Temp. rating of wire                                                                                                                                                                                                                                                                                                                                                                                     |                                 |                                          |                                                                |                     |
| Temperature rating (°C)                                                                                                                                                                                                                                                                                                                                                                                  |                                 | Intensité (A) Text                       |                                                                |                     |
| 60 - 75                                                                                                                                                                                                                                                                                                                                                                                                  |                                 | -- Use copper wire only                  |                                                                |                     |

|                                                                                                                                              |             |                   |                               |             |                                                                                       |                          |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------|-------------------------------|-------------|---------------------------------------------------------------------------------------|--------------------------|
| Connecting instructions                                                                                                                      |             |                   |                               |             |                                                                                       |                          |
| Markings                                                                                                                                     |             |                   |                               |             |                                                                                       |                          |
| When intended for use as a motor disconnecter the device shall be provided with a method of being locked in the OFF-position.                |             |                   |                               |             |                                                                                       |                          |
| General Use                                                                                                                                  |             |                   |                               |             |                                                                                       |                          |
| AC / DC                                                                                                                                      | Tension (V) | Intensité (A)     | Nb de phases                  | Nb de pôles | No. of contacts in series                                                             |                          |
| AC                                                                                                                                           | 300         | 20                | 1                             | 2           | 1                                                                                     |                          |
| AC                                                                                                                                           | 300         | 20                | 3                             | 3           | 1                                                                                     |                          |
| CSA                                                                                                                                          |             |                   |                               |             |                                                                                       |                          |
| Nominal Voltage                                                                                                                              |             |                   |                               |             |                                                                                       |                          |
|                                                                                                                                              |             |                   | Tension (V) AC / DC           |             |                                                                                       |                          |
|                                                                                                                                              |             |                   | 300 AC                        |             |                                                                                       |                          |
| Tension assignée d'isolement Ui                                                                                                              |             |                   |                               |             |                                                                                       |                          |
|                                                                                                                                              |             |                   | Tension (V) AC / DC           |             |                                                                                       |                          |
|                                                                                                                                              |             |                   | 300 AC                        |             |                                                                                       |                          |
| Rated thermal current                                                                                                                        |             |                   |                               |             |                                                                                       |                          |
|                                                                                                                                              |             | Intensité (A)     | Température Ambiante (°)      |             | Additional Text                                                                       |                          |
|                                                                                                                                              |             | 20                | 0 - 40                        |             | --                                                                                    |                          |
| Horsepower rating                                                                                                                            |             |                   |                               |             |                                                                                       |                          |
| Across-the-Line Motor Starting                                                                                                               |             |                   |                               | Tension (V) | Nb de phases                                                                          | Nb de pôles              |
| DOL                                                                                                                                          |             |                   |                               | 110 - 120   | 1                                                                                     | 2                        |
| DOL                                                                                                                                          |             |                   |                               | 220 - 240   | 1                                                                                     | 2                        |
| DOL                                                                                                                                          |             |                   |                               | 277 - 277   | 1                                                                                     | 2                        |
| DOL                                                                                                                                          |             |                   |                               | 110 - 120   | 3                                                                                     | 3                        |
| DOL                                                                                                                                          |             |                   |                               | 220 - 240   | 3                                                                                     | 3                        |
|                                                                                                                                              |             |                   |                               |             | Power (HP)                                                                            | Ambient temperature [°C] |
|                                                                                                                                              |             |                   |                               |             | 0,50                                                                                  | 40                       |
|                                                                                                                                              |             |                   |                               |             | 1                                                                                     | 40                       |
|                                                                                                                                              |             |                   |                               |             | 2                                                                                     | 40                       |
|                                                                                                                                              |             |                   |                               |             | 1,50                                                                                  | 40                       |
|                                                                                                                                              |             |                   |                               |             | 3                                                                                     | 40                       |
| Pilot duty rating code                                                                                                                       |             |                   |                               |             |                                                                                       |                          |
| Duty Code                                                                                                                                    |             |                   |                               |             |                                                                                       |                          |
| A300                                                                                                                                         |             |                   |                               |             |                                                                                       |                          |
| Temp. rating of wire                                                                                                                         |             |                   |                               |             |                                                                                       |                          |
|                                                                                                                                              |             |                   | Temperature rating (°C)       |             | Intensité (A) Text                                                                    |                          |
|                                                                                                                                              |             |                   | 75                            |             | -- only                                                                               |                          |
| General Use                                                                                                                                  |             |                   |                               |             |                                                                                       |                          |
| AC / DC                                                                                                                                      | Tension (V) | Intensité (A)     | Nb de phases                  | Nb de pôles | No. of contacts in series                                                             |                          |
| AC                                                                                                                                           | 300         | 20                | 1                             | 1           | 1                                                                                     |                          |
| GENERAL TECHNICAL INFORMATION                                                                                                                |             |                   |                               |             |                                                                                       |                          |
| Tightening torque of screws                                                                                                                  |             |                   |                               |             |                                                                                       |                          |
|                                                                                                                                              |             |                   | tightening torque (Nm)        |             | tightening torque (lb-in)                                                             |                          |
|                                                                                                                                              |             |                   | 0,60                          |             | 5                                                                                     |                          |
| Stripping length                                                                                                                             |             |                   |                               |             |                                                                                       |                          |
|                                                                                                                                              |             |                   | Length (mm) --                |             |                                                                                       |                          |
|                                                                                                                                              |             |                   | 8 STRIPPINGLENGTH             |             |                                                                                       |                          |
| Size of conductor                                                                                                                            |             |                   |                               |             |                                                                                       |                          |
| composition of conductor                                                                                                                     |             | Min. / Max. value | No. of conductor per terminal |             | Cross section (mm²) or (AWG/kcmil)                                                    |                          |
| solid wire                                                                                                                                   |             | Min.              | 1                             |             | 0,5mm²                                                                                |                          |
| solid wire                                                                                                                                   |             | Min.              | 2                             |             | 0,5mm²                                                                                |                          |
| flexible wire                                                                                                                                |             | Min.              | 1                             |             | 0,75mm²                                                                               |                          |
| flexible wire                                                                                                                                |             | Min.              | 2                             |             | 0,75mm²                                                                               |                          |
| flexible wire                                                                                                                                |             | Max.              | 2                             |             | 2,5mm²                                                                                |                          |
| flexible wire                                                                                                                                |             | Max.              | 2                             |             | AWG 14                                                                                |                          |
| Single-core or stranded wire                                                                                                                 |             | Max.              | 2                             |             | AWG 12                                                                                |                          |
| Single-core or stranded wire                                                                                                                 |             | Max.              | 2                             |             | 2,5mm²                                                                                |                          |
| flexible wire with ferrule according to DIN 46228                                                                                            |             | Min.              | 1                             |             | 0,5mm²                                                                                |                          |
| flexible wire with ferrule according to DIN 46228                                                                                            |             | Max.              | 2                             |             | 2,5mm²                                                                                |                          |
| flexible wire with ferrule according to DIN 46228                                                                                            |             | Min.              | 2                             |             | 0,5mm²                                                                                |                          |
| Approbations                                                                                                                                 |             |                   |                               |             |                                                                                       |                          |
| Specification                                                                                                                                |             |                   |                               |             | Marking                                                                               |                          |
| EAC                                                                                                                                          |             |                   |                               |             |  |                          |
| CE marking                                                                                                                                   |             |                   |                               |             |  |                          |
| UK Directives                                                                                                                                |             |                   |                               |             |  |                          |
| CSA C.22.2 No.14                                                                                                                             |             |                   |                               |             |  |                          |
| GB/T14048.3                                                                                                                                  |             |                   |                               |             |  |                          |
| Recommandations concernant le tournevis                                                                                                      |             |                   |                               |             |                                                                                       |                          |
| Type                                                                                                                                         |             |                   | Value                         |             |                                                                                       |                          |
| Tournevis cruciforme                                                                                                                         |             |                   | PH1                           |             |                                                                                       |                          |
| Slot screwdriver according to DIN 5264                                                                                                       |             |                   | 0,8x4                         |             |                                                                                       |                          |
| General Information                                                                                                                          |             |                   |                               |             |                                                                                       |                          |
| Text                                                                                                                                         |             |                   |                               |             |                                                                                       |                          |
| - Ne jamais lubrifier ou traiter les contacts.                                                                                               |             |                   |                               |             |                                                                                       |                          |
| - Les commutateurs ne peuvent être montés, branchés et mis en service que par une personne qualifiée selon les règles techniques en vigueur. |             |                   |                               |             |                                                                                       |                          |

## General Information

### Text

- Use copper wire only. Do not coat the wire end with tin.
- Les bornes qui ne sont pas supposées être utilisées pour le raccordement de l'appareil sont livrées serrées et ne doivent pas être desserrées. Si toutefois ces bornes sont malgré tout ouvertes accidentellement, vérifier qu'aucun shunt n'est manquant. Le câblage terminé, s'assurer que toutes les bornes sont serrées.
- Après mise en place des les commutateurs l'espace entre bornes doit être suffisant pour répondre aux exigences des normes en vigueur.

## Waste Electrical & Electronic Equipment (WEEE)

### Picture name Description



Do not throw in the trash as care must be taken to ensure environmentally sound disposal and recycling. Please either use an environmentally friendly waste disposal company; return to the supplier for disposal; or return direct to the manufacturer, Kraus & Naimer. You can find local Kraus & Naimer offices at [www.krausnaimer.com](http://www.krausnaimer.com)

## Proposition 65

### Picture name Description



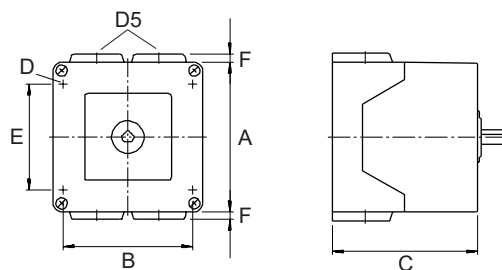
WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Type de contacts: Rigid contact bridge

Revêtement des Contacts: Silver

Types de raccordement: Screw terminal

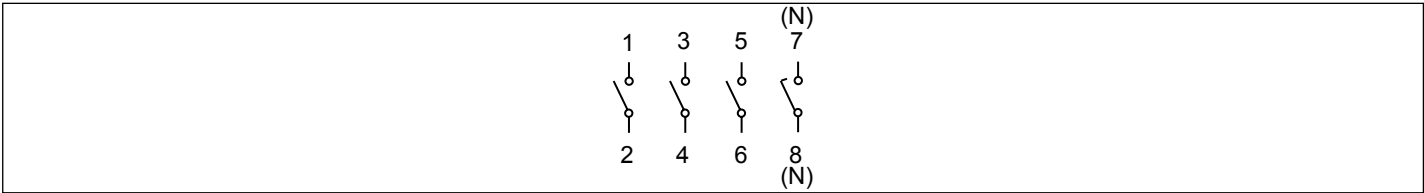
## Mounting-PN1



|                      |              |
|----------------------|--------------|
| IP - Code front side | IP42         |
| Stages               | 2,00 - 2,00  |
| A                    | □ 64,00 mm   |
| B                    | H 50,00 mm   |
| C                    | H 45,80 mm   |
| D                    | Ø 4,40 mm    |
| D5                   | Ø 4,00 x M20 |
| E                    | H 36,00 mm   |
| F                    | H 4,00 mm    |

Wiring diagram

CA10.A293.PN1



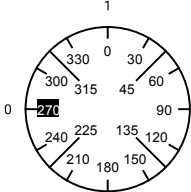
## Switch program

CA10.A293.PN1



Kraus & Naimer

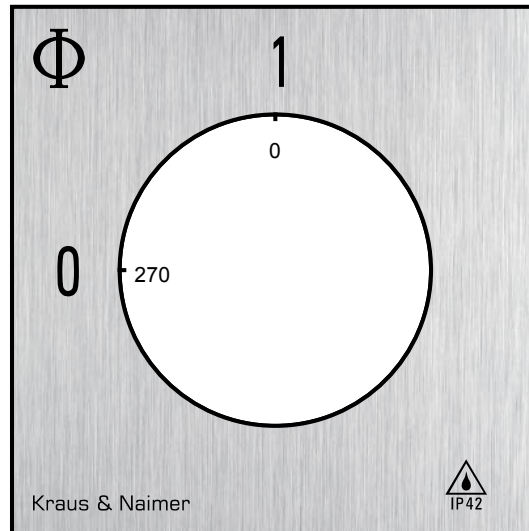
CA10
A293
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| Face Plate                                                                                                                                                                                                                                                                                                               |     |   |   |   |   |    |    |    |    |    |    |    |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|---|---|---|----|----|----|----|----|----|----|----|
|                                                                                                                                                                                                                                         |     |   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                          |     | 1 | 3 | 5 | 7 | 9  | 11 | 13 | 15 | 17 | 19 | 21 | 23 |
| <div style="display: flex; justify-content: space-around;">    </div> |     |   |   |   |   |    |    |    |    |    |    |    |    |
| Switching Angle <span style="border: 1px solid black; padding: 2px;">90</span><br>Total switching Angle <span style="border: 1px solid black; padding: 2px;">90</span>                                                                                                                                                   |     | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| 0                                                                                                                                                                                                                                                                                                                        | 270 |   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                          | 285 |   |   |   |   |    |    |    |    |    |    |    |    |
| 1                                                                                                                                                                                                                                                                                                                        | 300 |   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                          | 315 |   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                          | 330 |   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                          | 345 |   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                          | 0   |   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                          | 15  |   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                          | 30  |   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                          | 45  |   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                          | 60  |   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                          | 75  |   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                          | 90  |   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                          | 105 |   |   |   |   |    |    |    |    |    |    |    |    |
| 120                                                                                                                                                                                                                                                                                                                      |     |   |   |   |   |    |    |    |    |    |    |    |    |
| 135                                                                                                                                                                                                                                                                                                                      |     |   |   |   |   |    |    |    |    |    |    |    |    |
| 150                                                                                                                                                                                                                                                                                                                      |     |   |   |   |   |    |    |    |    |    |    |    |    |
| 165                                                                                                                                                                                                                                                                                                                      |     |   |   |   |   |    |    |    |    |    |    |    |    |
| 180                                                                                                                                                                                                                                                                                                                      |     |   |   |   |   |    |    |    |    |    |    |    |    |
| 195                                                                                                                                                                                                                                                                                                                      |     |   |   |   |   |    |    |    |    |    |    |    |    |
| 210                                                                                                                                                                                                                                                                                                                      |     |   |   |   |   |    |    |    |    |    |    |    |    |
| 225                                                                                                                                                                                                                                                                                                                      |     |   |   |   |   |    |    |    |    |    |    |    |    |
| 240                                                                                                                                                                                                                                                                                                                      |     |   |   |   |   |    |    |    |    |    |    |    |    |
| 255                                                                                                                                                                                                                                                                                                                      |     |   |   |   |   |    |    |    |    |    |    |    |    |

Version: 87

## Face plate

S0.F056/A10.PNL



## HANDLES

**Designation:** S0C.G257

**Handle colour:** "7" electro grey

