



Sample image

## Datasheet

**Article number:** 70003564

**Designation:** CA10.A440.PN1

**Description:** Switch

|                                                                                                                                                                                                                                                                                                                                                                                                          |  |                           |                                                                        |                                                          |                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------|------------------------------------------------------------------------|----------------------------------------------------------|---------------------|
| IEC 60947-3 EN 60947-3, VDE 0660 Teil 107                                                                                                                                                                                                                                                                                                                                                                |  |                           |                                                                        |                                                          |                     |
| Märkdraftspänning Ui                                                                                                                                                                                                                                                                                                                                                                                     |  |                           |                                                                        |                                                          |                     |
| Spänning (V) AC / DC                                                                                                                                                                                                                                                                                                                                                                                     |  |                           |                                                                        |                                                          |                     |
| 690 AC / DC                                                                                                                                                                                                                                                                                                                                                                                              |  |                           |                                                                        |                                                          |                     |
| Rated impulse withstand voltage Uimp                                                                                                                                                                                                                                                                                                                                                                     |  |                           |                                                                        |                                                          |                     |
| Voltage (kV)                                                                                                                                                                                                                                                                                                                                                                                             |  | Overvoltage category      | Pollution degree                                                       | Supply system                                            | Function            |
| 4 III                                                                                                                                                                                                                                                                                                                                                                                                    |  |                           | 3                                                                      | Valid for lines with grounded common neutral termination | Switch disconnecter |
| Märkdraftström vid konstant drift                                                                                                                                                                                                                                                                                                                                                                        |  |                           |                                                                        |                                                          |                     |
| Ström (A)                                                                                                                                                                                                                                                                                                                                                                                                |  | Omgivningstemperatur (°C) | Temperatur topp (°C) ytterligare krav                                  |                                                          |                     |
| 20                                                                                                                                                                                                                                                                                                                                                                                                       |  | 55                        | 60 Omginingstemperatur +55°C under 24 timmar med toppar upp till +60°C |                                                          |                     |
| Märkdraftström Ie                                                                                                                                                                                                                                                                                                                                                                                        |  |                           |                                                                        |                                                          |                     |
| Urvals kriterie                                                                                                                                                                                                                                                                                                                                                                                          |  |                           | Spänning (V)                                                           |                                                          | Ström (A)           |
| AC-15                                                                                                                                                                                                                                                                                                                                                                                                    |  |                           | 220 - 240                                                              |                                                          | 6                   |
| AC-15                                                                                                                                                                                                                                                                                                                                                                                                    |  |                           | 380 - 440                                                              |                                                          | 4                   |
| Märkdrifteffekt                                                                                                                                                                                                                                                                                                                                                                                          |  |                           |                                                                        |                                                          |                     |
| Urvals kriterie                                                                                                                                                                                                                                                                                                                                                                                          |  | Spänning (V)              | No. of phases                                                          | No. of poles                                             | Effekt (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                |
| Max försäkring, IEC                                                                                                                                                                                                                                                                                                                                                                                      |  |                           |                                                                        |                                                          |                     |
| Säkringskaraktéristik                                                                                                                                                                                                                                                                                                                                                                                    |  |                           |                                                                        | Antal säkringar                                          | Ström (A)           |
| gG                                                                                                                                                                                                                                                                                                                                                                                                       |  |                           |                                                                        | 1                                                        | 25                  |
| UL60947-4-1 , UL508                                                                                                                                                                                                                                                                                                                                                                                      |  |                           |                                                                        |                                                          |                     |
| Nominal Voltage                                                                                                                                                                                                                                                                                                                                                                                          |  |                           |                                                                        |                                                          |                     |
| Spänning (V) AC / DC                                                                                                                                                                                                                                                                                                                                                                                     |  |                           |                                                                        |                                                          |                     |
| 300 AC / DC                                                                                                                                                                                                                                                                                                                                                                                              |  |                           |                                                                        |                                                          |                     |
| Märkdraftspänning Ui                                                                                                                                                                                                                                                                                                                                                                                     |  |                           |                                                                        |                                                          |                     |
| Spänning (V) AC / DC                                                                                                                                                                                                                                                                                                                                                                                     |  |                           |                                                                        |                                                          |                     |
| 300 AC                                                                                                                                                                                                                                                                                                                                                                                                   |  |                           |                                                                        |                                                          |                     |
| Rated thermal current                                                                                                                                                                                                                                                                                                                                                                                    |  |                           |                                                                        |                                                          |                     |
| Ström (A)                                                                                                                                                                                                                                                                                                                                                                                                |  | Omgivningstemperatur (°C) |                                                                        | Additional Text                                          |                     |
| 20                                                                                                                                                                                                                                                                                                                                                                                                       |  | 0 - 40                    |                                                                        | --                                                       |                     |
| Horsepower rating                                                                                                                                                                                                                                                                                                                                                                                        |  |                           |                                                                        |                                                          |                     |
| Across-the-Line Motor Starting                                                                                                                                                                                                                                                                                                                                                                           |  |                           | Spänning (V)                                                           | No. of phases                                            | No. of poles        |
| Reversing                                                                                                                                                                                                                                                                                                                                                                                                |  |                           | 110 - 120                                                              | 1                                                        | 2                   |
| Reversing                                                                                                                                                                                                                                                                                                                                                                                                |  |                           | 220 - 240                                                              | 1                                                        | 2                   |
| Reversing                                                                                                                                                                                                                                                                                                                                                                                                |  |                           | 277 - 277                                                              | 1                                                        | 2                   |
| Reversing                                                                                                                                                                                                                                                                                                                                                                                                |  |                           | 110 - 120                                                              | 3                                                        | 3                   |
| Reversing                                                                                                                                                                                                                                                                                                                                                                                                |  |                           | 220 - 240                                                              | 3                                                        | 3                   |
| 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                   |
| 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)                                                                                                                                                                                                                                                                                                                                                                                  |  |                           | Ström (A) Text                                                         |                                                          |                     |
| 60 - 75                                                                                                                                                                                                                                                                                                                                                                                                  |  |                           | -- Use copper wire only                                                |                                                          |                     |

|                                                                                                       |              |           |                           |               |                           |            |
|-------------------------------------------------------------------------------------------------------|--------------|-----------|---------------------------|---------------|---------------------------|------------|
| Connecting instructions                                                                               |              |           |                           |               |                           |            |
| Markings                                                                                              |              |           |                           |               |                           |            |
| När brytaren används som säkerhetsbrytare skall den vara utrustad med vred som är låsbart i läge "0". |              |           |                           |               |                           |            |
| General Use                                                                                           |              |           |                           |               |                           |            |
| AC / DC                                                                                               | Spänning (V) | Ström (A) | No. of phases             | No. of poles  | No. of contacts in series |            |
| AC                                                                                                    | 300          | 20        | 1                         | 2             | 1                         |            |
| AC                                                                                                    | 300          | 20        | 3                         | 3             | 1                         |            |
| CSA                                                                                                   |              |           |                           |               |                           |            |
| Nominal Voltage                                                                                       |              |           |                           |               |                           |            |
|                                                                                                       |              |           |                           | Spänning (V)  | AC / DC                   |            |
|                                                                                                       |              |           |                           | 300           | AC                        |            |
| Märkdriftspänning Ui                                                                                  |              |           |                           |               |                           |            |
|                                                                                                       |              |           |                           | Spänning (V)  | AC / DC                   |            |
|                                                                                                       |              |           |                           | 300           | AC                        |            |
| Rated thermal current                                                                                 |              |           |                           |               |                           |            |
|                                                                                                       |              | Ström (A) | Omgivningstemperatur (°C) |               | Additional Text           |            |
|                                                                                                       |              | 20        | 0 - 40                    |               | --                        |            |
| Horsepower rating                                                                                     |              |           |                           |               |                           |            |
| Across-the-Line Motor Starting                                                                        |              |           | Spänning (V)              | No. of phases | No. of poles              | Power (HP) |
| 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                                                                                                  |              |           |                           |               |                           |            |
| Temp. rating of wire                                                                                  |              |           |                           |               |                           |            |
|                                                                                                       |              |           | Temperature rating (°C)   | Ström (A)     |                           | Text       |
|                                                                                                       |              |           | 75                        |               |                           | -- only    |
| General Use                                                                                           |              |           |                           |               |                           |            |
| AC / DC                                                                                               | Spänning (V) | Ström (A) | No. of phases             | No. of poles  | No. of contacts in series |            |
| AC                                                                                                    | 300          | 20        | 1                         | 1             | 1                         |            |

|                                                                                     |                   |                               |                        |                                                 |                           |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------|-------------------------------|------------------------|-------------------------------------------------|---------------------------|---------------------------------------------------------------------------------------|
| GENERAL TECHNICAL INFORMATION                                                       |                   |                               |                        |                                                 |                           |                                                                                       |
| Size of conductor                                                                   |                   |                               |                        |                                                 |                           |                                                                                       |
| composition of conductor                                                            | Min. / Max. value | No. of conductor per terminal |                        | Cross section (mm <sup>2</sup> ) or (AWG/kcmil) |                           | Material of the wire                                                                  |
| solid wire                                                                          | Min.              | 1                             |                        | 0,5mm <sup>2</sup>                              |                           | Copper                                                                                |
| solid wire                                                                          | Min.              | 2                             |                        | 0,5mm <sup>2</sup>                              |                           | Copper                                                                                |
| flexible wire                                                                       | Min.              | 1                             |                        | 0,75mm <sup>2</sup>                             |                           | Copper                                                                                |
| flexible wire                                                                       | Min.              | 2                             |                        | 0,75mm <sup>2</sup>                             |                           | Copper                                                                                |
| flexible wire                                                                       | Max.              | 2                             |                        | 2,5mm <sup>2</sup>                              |                           | Copper                                                                                |
| flexible wire                                                                       | Max.              | 2                             |                        | AWG 14                                          |                           | Copper                                                                                |
| Single-core or stranded wire                                                        | Max.              | 2                             |                        | AWG 12                                          |                           | Copper                                                                                |
| Single-core or stranded wire                                                        | Max.              | 2                             |                        | 2,5mm <sup>2</sup>                              |                           | Copper                                                                                |
| flexible wire with ferrule according to DIN 46228                                   | Min.              | 1                             |                        | 0,5mm <sup>2</sup>                              |                           | Copper                                                                                |
| flexible wire with ferrule according to DIN 46228                                   | Max.              | 2                             |                        | 2,5mm <sup>2</sup>                              |                           | Copper                                                                                |
| flexible wire with ferrule according to DIN 46228                                   | Min.              | 2                             |                        | 0,5mm <sup>2</sup>                              |                           | Copper                                                                                |
| Stripping length                                                                    |                   |                               |                        |                                                 |                           |                                                                                       |
| Length (mm) --                                                                      |                   |                               |                        |                                                 |                           |                                                                                       |
|  |                   |                               |                        |                                                 |                           |                                                                                       |
| Rekomenderad skruvmejsel                                                            |                   |                               |                        |                                                 |                           |                                                                                       |
| Typ av skruvmejsel                                                                  |                   |                               | Value                  |                                                 |                           |                                                                                       |
| Stjärnskruvmejsel                                                                   |                   |                               | PH1                    |                                                 |                           |                                                                                       |
| Slot screwdriver according to DIN 5264                                              |                   |                               | 0,8x4                  |                                                 |                           |                                                                                       |
| Tightening torque of screws                                                         |                   |                               |                        |                                                 |                           |                                                                                       |
|                                                                                     |                   |                               | tightening torque (Nm) |                                                 | tightening torque (lb-in) |                                                                                       |
|                                                                                     |                   |                               | 0,60                   |                                                 | 5                         |                                                                                       |
| Approbations                                                                        |                   |                               |                        |                                                 |                           |                                                                                       |
| Specification                                                                       |                   |                               |                        |                                                 |                           | Marking                                                                               |
| EAC                                                                                 |                   |                               |                        |                                                 |                           |  |
| CE marking                                                                          |                   |                               |                        |                                                 |                           |  |
| UK Directives                                                                       |                   |                               |                        |                                                 |                           |  |
| CSA C.22.2 No.14                                                                    |                   |                               |                        |                                                 |                           |  |
| GB/T14048.3                                                                         |                   |                               |                        |                                                 |                           |  |
| General Information                                                                 |                   |                               |                        |                                                 |                           |                                                                                       |
| Text                                                                                |                   |                               |                        |                                                 |                           |                                                                                       |
| - Smörjning och behandling av kontakterna är förbjuden.                             |                   |                               |                        |                                                 |                           |                                                                                       |

## General Information

### Text

- Inkoppling och service av strömställaren får endast utföras av behörig personal. Strömställaren är underhållsfri.
- Använd endast kopparkabel. Kabeln får inte förtennas.
- Alla anslutningsskruvar måste dras med rekommenderat moment, även de som inte används då det kan finnas interna överkopplingar.
- Vid installation av strömställaren skall kontrolleras att kryp- och luftavstånd motsvarar gällande föreskrifter.

### 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



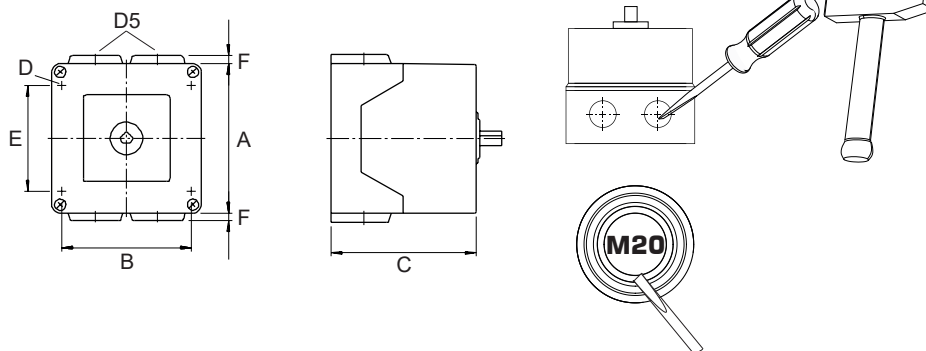
WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

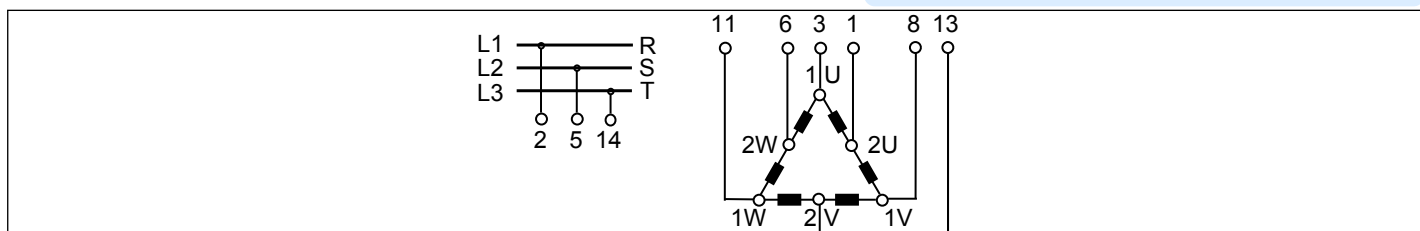
## Mounting-PN1



| Skyddsklass frontpanel, IP |   | IP42        |
|----------------------------|---|-------------|
| Stages                     |   | 4,00 - 4,00 |
| A                          | □ | 64,00 mm    |
| B                          | H | 50,00 mm    |
| C                          | H | 64,80 mm    |
| D                          | Ø | 4,40 mm     |
| D5                         | Ø | 4,00 x M20  |
| E                          | H | 36,00 mm    |
| F                          | H | 4,00 mm     |

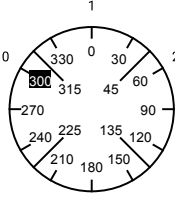
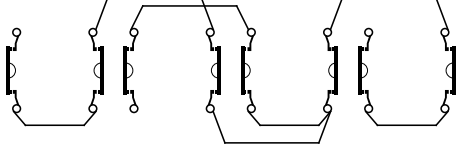
## Wiring diagram

CA10.A440.PN1



## Switch program

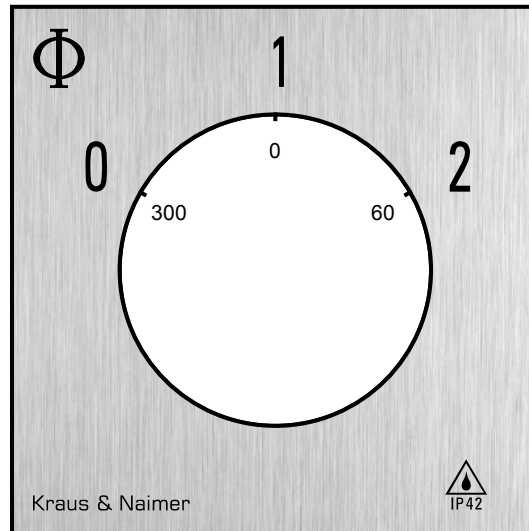
CA10.A440.PN1

|  Kraus & Naimer          |     | CA10                                                                               |   | A440 |   | Page 1 of 1 |    |    |    |    |    |    |    |
|-----------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------|---|------|---|-------------|----|----|----|----|----|----|----|
|                                                                                                           |     |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
| <b>Face Plate</b>                                                                                         |     |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
|                          |     | 1                                                                                  | 3 | 5    | 7 | 9           | 11 | 13 | 15 | 17 | 19 | 21 | 23 |
|                                                                                                           |     |  |   |      |   |             |    |    |    |    |    |    |    |
| Switching Angle <input type="text" value="60"/><br>Total switching Angle <input type="text" value="120"/> |     | 2                                                                                  | 4 | 6    | 8 | 10          | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| 0                                                                                                         | 300 |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                           | 315 |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                           | 330 |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                           | 345 |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                           | 0   |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                           | 15  |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                           | 30  |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                           | 45  |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                           | 60  |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                           | 75  |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                           | 90  |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                           | 105 |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                           | 120 |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                           | 135 |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                           | 150 |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                           | 165 |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                           | 180 |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
| 195                                                                                                       |     |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
| 210                                                                                                       |     |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
| 225                                                                                                       |     |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
| 240                                                                                                       |     |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
| 255                                                                                                       |     |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
| 270                                                                                                       |     |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |
| 285                                                                                                       |     |                                                                                    |   |      |   |             |    |    |    |    |    |    |    |

Version: 44

## Face plate

S0.F073/A10.PNL



## HANDLES

**Designation:** S0C.G257

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

