

# Ensto Compact manual motor controllers

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| PRODUCT CODE                                             | AMPERAGE | VOLTAGE | TIGHTENING TORQUE (LB-IN) | MOUNTING       | SIZE (MM)    | WEIGHT (KG) | PACKAGE SIZE (PCS) | EAN 13 CODE   |
|----------------------------------------------------------|----------|---------|---------------------------|----------------|--------------|-------------|--------------------|---------------|
| <b>3-pole without handle, panel and DIN rail mounted</b> |          |         |                           |                |              |             |                    |               |
| KS3.20/U                                                 | 3 x 20 A | 480 VAC | 18 Lb-In                  | Din rail/Screw | 36 x 80 x 70 | 0.129       | 50                 | 6418677159008 |
| KS3.30/U                                                 | 3 x 30 A | 480 VAC | 18 Lb-In                  | Din rail/Screw | 36 x 80 x 70 | 0.129       | 50                 | 6418677159015 |
| <b>4th pole, panel and DIN rail mounted</b>              |          |         |                           |                |              |             |                    |               |
| KS1.20/U                                                 | 20 A     | 480 VAC | 18 Lb-In                  | Din rail/Screw | 13 x 56 x 72 | 0.046       | 50                 | 6418677159046 |
| KS1.30/U                                                 | 30 A     | 480 VAC | 18 Lb-In                  | Din rail/Screw | 13 x 56 x 72 | 0.046       | 50                 | 6418677159053 |
| <b>3-pole without handle, direct door mounted</b>        |          |         |                           |                |              |             |                    |               |
| KS13.20/U                                                | 3 x 20 A | 480 VAC | 18 Lb-In                  | Din rail/Screw | 40 x 80 x 72 | 0.162       | 50                 | 6418677159022 |
| KS13.30/U                                                | 3 x 30 A | 480 VAC | 18 Lb-In                  | Din rail/Screw | 40 x 80 x 72 | 0.162       | 50                 | 6418677159039 |
| <b>4th pole, direct door mounted</b>                     |          |         |                           |                |              |             |                    |               |
| KS11.20/U                                                | 20 A     | 480 VAC | 18 Lb-In                  | Din rail/Screw | 13 x 56 x 72 | 0.045       | 50                 | 6418677159060 |
| KS11.30/U                                                | 30 A     | 480 VAC | 18 Lb-In                  | Din rail/Screw | 13 x 56 x 72 | 0.045       | 50                 | 6418677159077 |



KS3.20/U



KS1.20/U



KS13.30/U



KS11.30/U

## Additional poles

| PRODUCT CODE                   | DESCRIPTION                                       | WEIGHT (KG) | PACKAGE SIZE (PCS) | EAN 13 CODE   |
|--------------------------------|---------------------------------------------------|-------------|--------------------|---------------|
| <b>Fixed neutral poles</b>     |                                                   |             |                    |               |
| KSN1/U                         | For KS3.20/U and KS3.30/U switches                | 0.042       | 50                 | 6418677159084 |
| KSN11/U                        | For KS13.20/U and KS13.30/U switches              | 0.042       | 50                 | 6418677159091 |
| <b>Fixed PE poles</b>          |                                                   |             |                    |               |
| KSP1/U                         | For KS3.20/U and KS3.30/U switches                | 0.042       | 50                 | 6418677159107 |
| KSP11/U                        | For KS13.20/U and KS13.30/U switches              | 0.042       | 50                 | 6418677159114 |
| <b>No+NC auxiliary contact</b> |                                                   |             |                    |               |
| KSA1/U                         | 15 A, 120 VAC, Pilot Duty A300, for KS3-switches  | 0.050       | 50                 | 6418677159121 |
| KSA11/U                        | 15 A, 120 VAC, Pilot Duty A300, for KS13-switches | 0.050       | 50                 | 6418677159138 |



Fixed neutral pole, KSN1/U.



Fixed PE pole, KSP1/U.

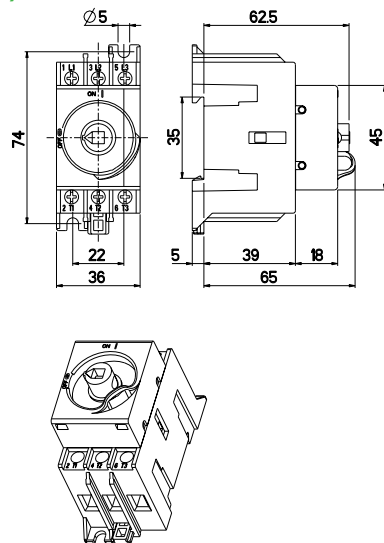


Standard auxiliary contact, KSA1/U.

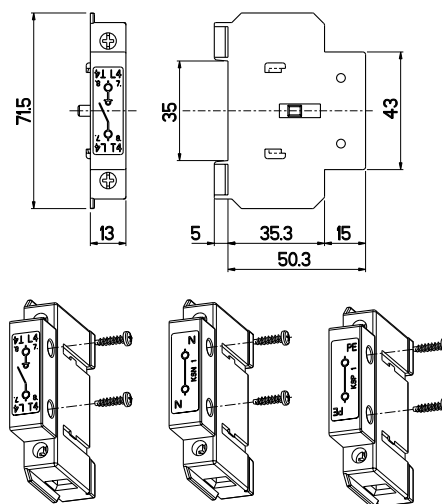
# Technical drawings, Ensto Compact manual motor controllers

Dimensions in mm

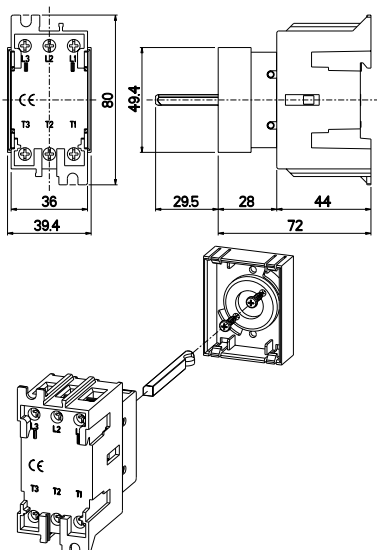
**KS3.20/U, KS3.30/U**



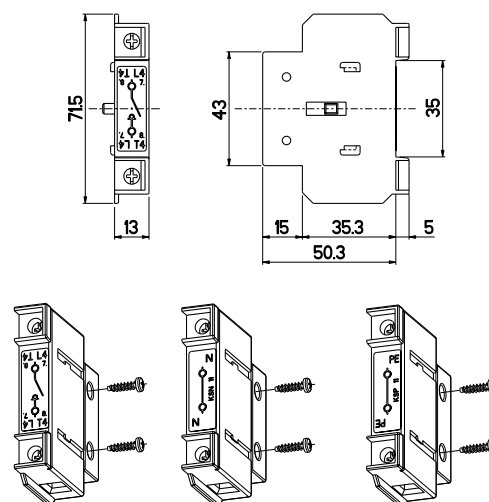
**KS1.20/U, KS1.30/U, KSN1/U, KSP1/U**



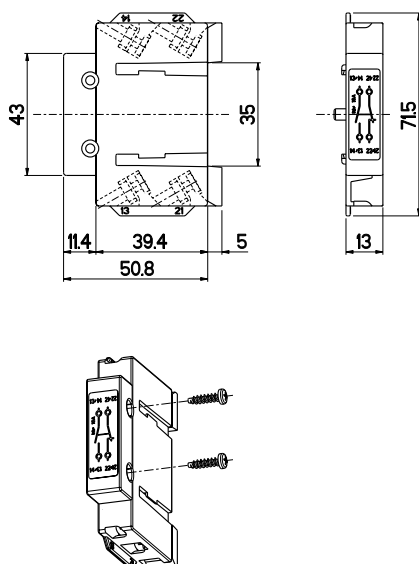
**KS13.20/U, KS13.30/U**



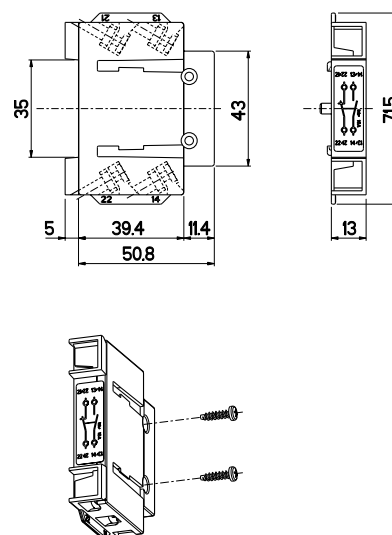
**KS11.20/U, KS11.30/U, KSN11/U, KSP11/U**



**KSA1/U**



**KSA11/U**



# Manual motor controllers, ratings

| PRODUCT CODE                                           | RATING           | MOTOR FLA         | MOTOR LRA        | SINGLE-PHASE |         | THREE-PHASE DESIGN B, C, D |         |         |         | THREE-PHASE DESIGN E |         |         |         |
|--------------------------------------------------------|------------------|-------------------|------------------|--------------|---------|----------------------------|---------|---------|---------|----------------------|---------|---------|---------|
|                                                        |                  |                   |                  | 120 VAC      | 240 VAC | 200 VAC                    | 240 VAC | 480 VAC | 600 VAC | 200 VAC              | 240 VAC | 480 VAC | 600 VAC |
| KS3.20/U<br>KS13.20/U                                  | 20 A<br>480 VAC  | 12 A<br>480 VAC   | 80 A<br>480 VAC  | ½ Hp         | 2 Hp    | 3 Hp                       | 3 Hp    | 7 ½ Hp  |         | 2 Hp                 | 3 Hp    | 5 Hp    |         |
| KS3.30/U<br>KS13.30/U                                  | 30 A<br>480 VAC  | 15.2 A<br>480 VAC | 92 A<br>480 VAC  | ¾ Hp         | 2 Hp    | 3 Hp                       | 5 Hp    | 10 Hp   |         | 3 Hp                 | 3 Hp    | 7 ½ Hp  |         |
| KSR3.40/U<br>KSR3.401/U<br>KSR3.402/U<br>KST3.40/U     | 40 A<br>600 VAC  | 27 A<br>600 VAC   | 146 A<br>600 VAC | 2 Hp         | 3 Hp    | 7 ½ Hp                     | 7 ½ Hp  | 20 Hp   | 25 Hp   | 5 Hp                 | 5 Hp    | 10 Hp   | 15 Hp   |
| KSR4.40/U<br>KSR4.401/U<br>KSR4.402/U<br>KST4.40/U     | 40 A<br>480 VAC  | 27 A<br>480 VAC   | 146 A<br>480 VAC | 2 Hp         | 3 Hp    | 7 ½ Hp                     | 7 ½ Hp  | 20 Hp   |         | 5 Hp                 | 5 Hp    | 10 Hp   |         |
| KSR3.60/U<br>KSR3.601/U<br>KSR3.602/U<br>KST3.60/U     | 60 A<br>480 VAC  | 34 A<br>480 VAC   | 194 A<br>480 VAC | 2 Hp         | 5 Hp    | 10 Hp                      | 10 Hp   | 25 Hp   |         | 5 Hp                 | 7 ½ Hp  | 15 Hp   |         |
| KSR3.80/U<br>KSR3.801/U<br>KSR3.802/U<br>KST3.80/U     | 80 A             | 54 A              | 337 A            | 3 Hp         | 10 Hp   | 15 Hp                      | 20 Hp   | 40 Hp   | 50 Hp   | 10 Hp                | 15 Hp   | 30 Hp   | 40 Hp   |
| KSR3.100/U<br>KSR3.1001/U<br>KSR3.1002/U<br>KST3.100/U | 100 A<br>480 VAC | 68 A<br>480 VAC   | 412 A<br>480 VAC | 5 Hp         | 15 Hp   | 20 Hp                      | 25 Hp   | 50 Hp   |         | 15 Hp                | 15 Hp   | 40 Hp   |         |

| PRODUCT CODE                                           | RATING | TERMINAL LUG SPECIFICATIONS (CU WIRES, 60 - 75 °C) |                     |                   | SHORT-CIRCUIT RATING WITH FUSES LINE-SIDE |           |           |                       |           |           |
|--------------------------------------------------------|--------|----------------------------------------------------|---------------------|-------------------|-------------------------------------------|-----------|-----------|-----------------------|-----------|-----------|
|                                                        |        | WIRE SIZE, SOLID                                   | WIRE SIZE, STRANDED | TIGHTENING TORQUE | FUSE TYPE H, K, OR RK 5                   |           |           | FUSE TYPE J OR BETTER |           |           |
|                                                        |        |                                                    |                     |                   | AVAIL. CURRENT                            | MAX. VOLT | MAX. FUSE | AVAIL. CURRENT        | MAX. VOLT | MAX. FUSE |
| KS3.20/U<br>KS13.20/U                                  | 20 A   | #14 - #10AWG                                       | #14 - #6 AWG        | 18 Lb-In          | 10 kA                                     | 480 VAC   | 30 A      |                       |           |           |
| KS3.30/U<br>KS13.30/U                                  | 30 A   | #14 - #10 AWG                                      | #14 - #6 AWG        | 18 Lb-In          | 10 kA                                     | 480 VAC   | 30 A      |                       |           |           |
| KSR3.40/U<br>KSR3.401/U<br>KSR3.402/U<br>KST3.40/U     | 40 A   | #14 - #10 AWG                                      | #14 - #4 AWG        | 35 Lb-In          | 10 kA                                     | 600 VAC   | 100 A     | 18 kA                 | 480 VAC   | 100 A     |
| KSR4.40/U<br>KSR4.401/U<br>KSR4.402/U<br>KST4.40/U     | 40 A   | #14 - #10 AWG                                      | #14 - #4 AWG        | 35 Lb-In          | 10 kA                                     | 480 VAC   | 60 A      |                       |           |           |
| KSR3.60/U<br>KSR3.601/U<br>KSR3.602/U<br>KST3.60/U     | 60 A   | #14 - #10 AWG                                      | #14 - #4 AWG        | 35 Lb-In          | 10 kA                                     | 480 VAC   | 100 A     | 18 kA                 | 480 VAC   | 100 A     |
| KSR3.80/U<br>KSR3.801/U<br>KSR3.802/U<br>KST3.80/U     | 80 A   | #14 - #10 AWG                                      | #14 - #1 AWG        | 50 Lb-In          | 10 KA                                     | 600 VAC   | 150 A     | 18 kA                 | 480 VAC   | 100 A     |
| KSR3.100/U<br>KSR3.1001/U<br>KSR3.1002/U<br>KST3.100/U | 100 A  | #14 - #10 AWG                                      | #14 - #1 AWG        | 50 Lb-In          | 10 kA                                     | 480 VAC   | 150 A     | 18 kA                 | 480 VAC   | 100 A     |