

# Ensto Origin 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>Rotary switches without shaft retaining collar</b>           |           |         |                           |                |              |             |                    |               |
| KSR3.40/U                                                       | 3 x 40 A  | 600 VAC | 35 Lb-In                  | Din rail/Screw | 51 x 70 x 68 | 0.170       | 30                 | 6418677190001 |
| KSR3.60/U                                                       | 3 x 60 A  | 480 VAC | 35 Lb-In                  | Din rail/Screw | 51 x 70 x 68 | 0.170       | 30                 | 6418677190018 |
| KSR3.80/U                                                       | 3 x 80 A  | 600 VAC | 50 Lb-In                  | Din rail/Screw | 53 x 84 x 73 | 0.268       | 30                 | 6418677190025 |
| KSR3.100/U                                                      | 3 x 100 A | 480 VAC | 50 Lb-In                  | Din rail/Screw | 53 x 84 x 73 | 0.268       | 30                 | 6418677190032 |
| KSR4.40/U                                                       | 4 x 40 A  | 480 VAC | 35 Lb-In                  | Din rail/Screw | 62 x 70 x 68 | 0.205       | 30                 | 6418677190056 |
| <b>Rotary switches with shaft retaining collar</b>              |           |         |                           |                |              |             |                    |               |
| KSR3.401/U                                                      | 3 x 40 A  | 600 VAC | 35 Lb-In                  | Din rail/Screw | 51 x 70 x 68 | 0.180       | 30                 | 6418677190070 |
| KSR3.601/U                                                      | 3 x 60 A  | 480 VAC | 35 Lb-In                  | Din rail/Screw | 51 x 70 x 68 | 0.180       | 30                 | 6418677190087 |
| KSR3.801/U                                                      | 3 x 80 A  | 600 VAC | 50 Lb-In                  | Din rail/Screw | 53 x 84 x 73 | 0.280       | 30                 | 6418677190094 |
| KSR3.1001/U                                                     | 3 x 100 A | 480 VAC | 50 Lb-In                  | Din rail/Screw | 53 x 84 x 73 | 0.280       | 30                 | 6418677190100 |
| KSR4.401/U                                                      | 4 x 40 A  | 480 VAC | 35 Lb-In                  | Din rail/Screw | 62 x 70 x 68 | 0.213       | 30                 | 6418677190124 |
| <b>Rotary switches with shaft retaining collar (hex socket)</b> |           |         |                           |                |              |             |                    |               |
| KSR3.402/U                                                      | 3 x 40 A  | 600 VAC | 35 Lb-In                  | Din rail/Screw | 51 x 70 x 68 | 0.180       | 30                 | 6418677190131 |
| KSR3.602/U                                                      | 3 x 60 A  | 480 VAC | 35 Lb-In                  | Din rail/Screw | 51 x 70 x 68 | 0.180       | 30                 | 6418677190148 |
| KSR3.802/U                                                      | 3 x 80 A  | 600 VAC | 50 Lb-In                  | Din rail/Screw | 53 x 84 x 73 | 0.280       | 30                 | 6418677190155 |
| KSR3.1002/U                                                     | 3 x 100 A | 480 VAC | 50 Lb-In                  | Din rail/Screw | 53 x 84 x 73 | 0.280       | 30                 | 6418677190162 |
| KSR4.402/U                                                      | 4 x 40 A  | 480 VAC | 35 Lb-In                  | Din rail/Screw | 62 x 70 x 68 | 0.213       | 30                 | 6418677190179 |
| <b>Toggle switches</b>                                          |           |         |                           |                |              |             |                    |               |
| KST3.40/U                                                       | 3 x 40 A  | 600 VAC | 35 Lb-In                  | Din rail/Screw | 51 x 70 x 70 | 0.155       | 30                 | 6418677190186 |
| KST3.60/U                                                       | 3 x 60 A  | 480 VAC | 35 Lb-In                  | Din rail/Screw | 51 x 70 x 70 | 0.155       | 30                 | 6418677190193 |
| KST3.80/U                                                       | 3 x 80 A  | 600 VAC | 50 Lb-In                  | Din rail/Screw | 53 x 84 x 73 | 0.260       | 30                 | 6418677190209 |
| KST3.100/U                                                      | 3 x 100 A | 480 VAC | 50 Lb-In                  | Din rail/Screw | 53 x 84 x 73 | 0.260       | 30                 | 6418677190216 |
| KST4.40/U                                                       | 4 x 40 A  | 480 VAC | 35 Lb-In                  | Din rail/Screw | 62 x 70 x 69 | 0.190       | 30                 | 6418677190223 |



KSR3.80/U



KSR3.801/U



KSR3.402/U



KST3.80/U

## Handles

| PRODUCT CODE            | DESCRIPTION                                                                                         | WEIGHT (KG) | PACKAGE SIZE (PCS) | EAN 13 CODE   |
|-------------------------|-----------------------------------------------------------------------------------------------------|-------------|--------------------|---------------|
| <b>Direct handles</b>   |                                                                                                     |             |                    |               |
| KK57.18/U               | Direct handle, black/grey for KSR3.40/U-KSR3.60/U                                                   | 0.017       | 100                | 6418677190735 |
| KK57.19/U               | Direct handle, black/grey for KSR3.80/U-KSR3.100/U                                                  | 0.018       | 100                | 6418677190742 |
| KK57.37/U               | Direct handle, black/grey for KSR4.40/U                                                             | 0.019       | 100                | 6418677190759 |
| KK57.182/U              | Direct handle, red/yellow for KSR3.40/U-KSR3.60/U                                                   | 0.018       | 100                | 6418677190766 |
| KK57.192/U              | Direct handle, red/yellow for KSR3.80/U-3.100/U                                                     | 0.019       | 100                | 6418677190773 |
| KK57.372/U              | Direct handle, red/yellow for KSR4.40/U                                                             | 0.020       | 100                | 6418677190780 |
| <b>External handles</b> |                                                                                                     |             |                    |               |
| KK29/U                  | Black, IP 54, not padlockable, 0/1                                                                  | 0.038       | 100                | 6418677190308 |
| KSH48/U                 | Padlockable, yellow with red handle, 0 OFF / 1 ON, Environmental type 4X and 13                     | 0.043       | 100                | 6418677190315 |
| KSH48.01/U              | Padlockable, black, 0 OFF / 1 ON, Environmental type 4X and 13                                      | 0.043       | 100                | 6418677190322 |
| KSH75/U                 | Pistol grip handle, black, padlockable, 0 OFF / 1 ON, Environmental type 4X and 12                  | 0.070       | 50                 | 6418677190339 |
| KSH75RY/U               | Pistol grip handle, yellow with red handle, padlockable, 0 OFF / 1 ON, Environmental type 4X and 12 | 0.070       | 50                 | 6418677190346 |
| PMR716.1/U              | Handle shaft guide replacement KSH48/U and KSH48.01/U                                               | 0.006       | 250                | 6418677190353 |

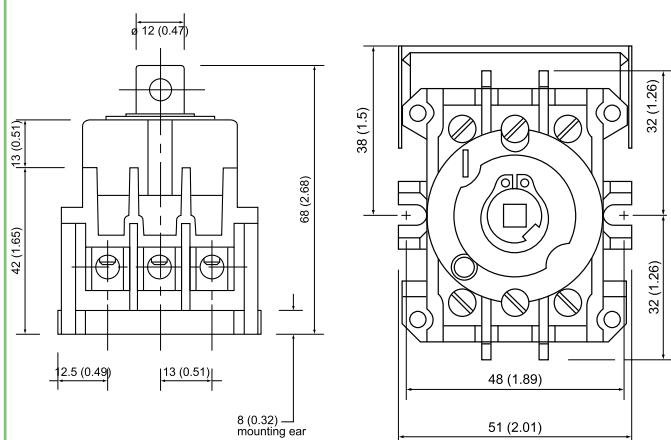


KK57.18/U

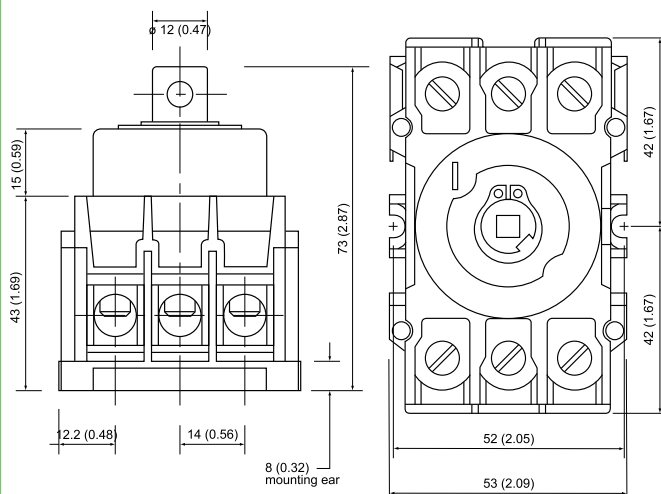
# Technical drawings, Ensto Origin manual motor controllers

Dimensions in mm

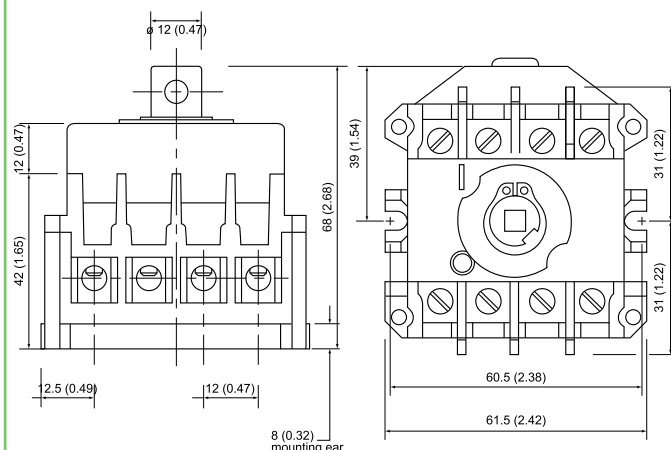
**KSR3.40/U, KSR3.60/U**



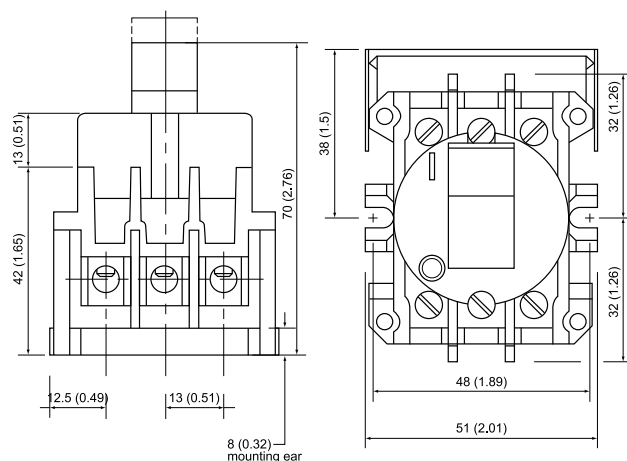
**KSR3.80/U, KSR3.100/U**



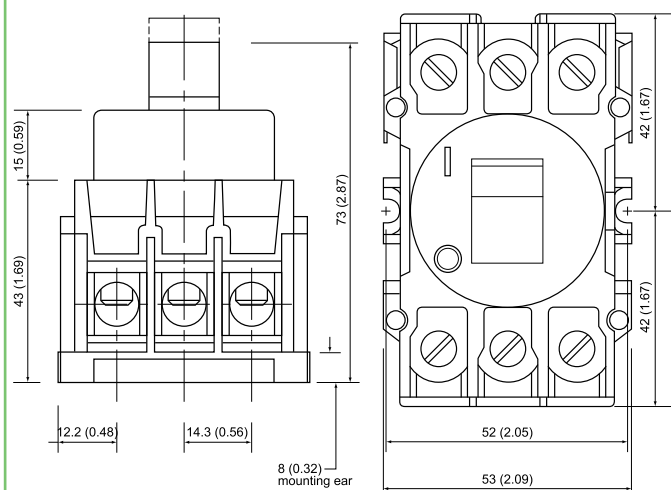
**KSR4.40/U**



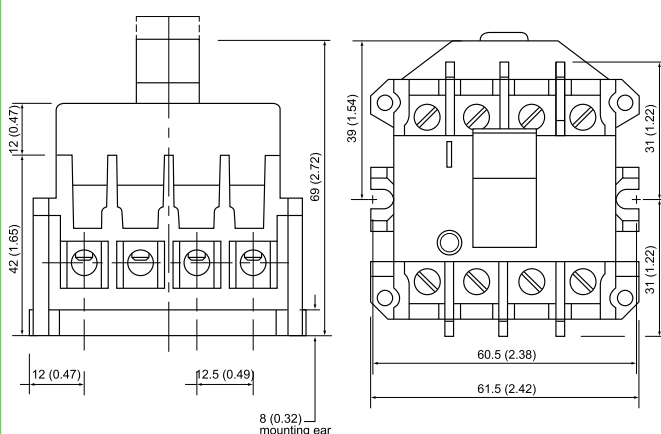
**KST3.40/U, KST3.60/U**



**KST3.80/U, KST3.100/U**



**KST4.40/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     |