



MKS1TM-0.40



SSY11



TSP-1,6



MKS1-KES

# Motor Protection Circuit Breakers



MKS1TM-0.40

## Thermic & Magnetic Protection

| Code        | Current Calibration Interval (A) | Fuse Selection Table (A) |      |      |      | Switching Capacity (kA) |      |      |      | Box/Pcs |
|-------------|----------------------------------|--------------------------|------|------|------|-------------------------|------|------|------|---------|
|             |                                  | 230V                     | 400V | 500V | 690V | 230V                    | 400V | 500V | 690V |         |
| MKS1TM-0.16 | 0.10 - 0.16                      | -                        | -    | -    | -    | 100                     | 100  | 100  | 100  | 1       |
| MKS1TM-0.25 | 0.16 - 0.25                      | -                        | -    | -    | -    | 100                     | 100  | 100  | 100  | 1       |
| MKS1TM-0.40 | 0.25 - 0.40                      | -                        | -    | -    | -    | 100                     | 100  | 100  | 100  | 1       |
| MKS1TM-0.63 | 0.40 - 0.63                      | -                        | -    | -    | -    | 100                     | 100  | 100  | 100  | 1       |
| MKS1TM-1    | 0.63 - 1.00                      | -                        | -    | -    | -    | 100                     | 100  | 100  | 100  | 1       |
| MKS1TM-1.6  | 1.00 - 1.60                      | -                        | -    | -    | -    | 6                       | 6    | 3    | 2,5  | 1       |
| MKS1TM-2.5  | 1.60 - 2.50                      | -                        | -    | 25   | 20   | 6                       | 6    | 3    | 2,5  | 1       |
| MKS1TM-4    | 2.50 - 4.00                      | -                        | -    | 35   | 25   | 6                       | 6    | 3    | 2,5  | 1       |
| MKS1TM-6.3  | 4.00 - 6.30                      | -                        | -    | 50   | 35   | 6                       | 6    | 2,5  | 2    | 1       |
| MKS1TM-10   | 6.30 - 10.0                      | -                        | 80   | 50   | 35   | 6                       | 6    | 2,5  | 2    | 1       |
| MKS1TM-16   | 10.0 - 16.0                      | 80                       | 80   | 63   | 35   | 6                       | 6    | 2,5  | 2    | 1       |
| MKS1TM-20   | 16.0 - 20.0                      | 80                       | 80   | 63   | 50   | 6                       | 6    | 2,5  | 2    | 1       |
| MKS1TM-25   | 20.0 - 25.0                      | 80                       | 80   | 63   | 50   | 6                       | 6    | 2,5  | 2    | 1       |

## Thermic & Magnetic Protection Boxes



MKS1-K

### MKS-Box Type

| Code         | Current Calibration Interval (A) | Mounting | Button Case | Box/Pcs |
|--------------|----------------------------------|----------|-------------|---------|
| MKS1TMK-0.16 | 0.10 - 0.16                      | Surface  | IP65        | 1       |
| MKS1TMK-0.25 | 0.16 - 0.25                      | Surface  | IP65        | 1       |
| MKS1TMK-0.40 | 0.25 - 0.40                      | Surface  | IP65        | 1       |
| MKS1TMK-0.63 | 0.40 - 0.63                      | Surface  | IP65        | 1       |
| MKS1TMK-1    | 0.63 - 1.00                      | Surface  | IP65        | 1       |
| MKS1TMK-1.6  | 1.00 - 1.60                      | Surface  | IP65        | 1       |
| MKS1TMK-2.5  | 1.60 - 2.50                      | Surface  | IP65        | 1       |
| MKS1TMK-4    | 2.50 - 4.00                      | Surface  | IP65        | 1       |
| MKS1TMK-6.3  | 4.00 - 6.30                      | Surface  | IP65        | 1       |
| MKS1TMK-10   | 6.30 - 10.0                      | Surface  | IP65        | 1       |
| MKS1TMK-16   | 10.0 - 16.0                      | Surface  | IP65        | 1       |
| MKS1TMK-20   | 16.0 - 20.0                      | Surface  | IP65        | 1       |
| MKS1TMK-25   | 20.0 - 25.0                      | Surface  | IP65        | 1       |



MKS1-KES

### Accessories

| Code       | Type                 | Features                              | Box/Pcs |
|------------|----------------------|---------------------------------------|---------|
| MKS1-K     | MKS Box              | Empty                                 | 1       |
| MKS1-KE    | MKS Box              | With Emergency Stop Button            | 1       |
| MKS1-KES   | MKS Box              | With Emergency Stop Button and Signal | 1       |
| MKS1-YKD00 | Auxiliary Contact    | 2 NC                                  | 4       |
| MKS1-YKD01 | Auxiliary Contact    | 1 NO + 1 NC                           | 4       |
| MKS1-YKD11 | Auxiliary Contact    | 2 NO                                  | 4       |
| MKS1-DGR-4 | Undervoltage Release | 110V                                  | 1       |
| MKS1-DGR-5 | Undervoltage Release | 220V                                  | 1       |
| MKS1-DGR-6 | Undervoltage Release | 400V                                  | 1       |
| MKS1-AR-5  | Shunt Release        | 220V                                  | 1       |
| MKS1-AR-6  | Shunt Release        | 400V                                  | 1       |



MKS1-YKD00



MKS1-DGR-5



SSY11

### Cylindrical Fuse Housing

| Code   | Number of Poles | Cylindrical Fuse(mm) | Box/Pcs |
|--------|-----------------|----------------------|---------|
| SSY11  | 1P              | 10 x 38              | 10      |
| SSY11N | 1P+N            | 10 x 38              | 5       |
| SSY12  | 2P              | 10 x 38              | 5       |
| SSY13  | 3P              | 10 x 38              | 3       |
| SSY13N | 3P+N            | 10 x 38              | 3       |

## Thermic Protection



TSP-0.32

### TSP-with Box

| Code     | Current Calibration Interval (A) | Mounting | Protection | Box/Pcs |
|----------|----------------------------------|----------|------------|---------|
| TSP-0.32 | 0.18 - 0.32                      | Surface  | IP65       | 1       |
| TSP-0.55 | 0.30 - 0.55                      | Surface  | IP65       | 1       |
| TSP-0.70 | 0.40 - 0.70                      | Surface  | IP65       | 1       |
| TSP-1.00 | 0.60 - 1.00                      | Surface  | IP65       | 1       |
| TSP-1.60 | 0.90 - 1.60                      | Surface  | IP65       | 1       |
| TSP-2.50 | 1.50 - 2.50                      | Surface  | IP65       | 1       |
| TSP-3.50 | 2.40 - 3.50                      | Surface  | IP65       | 1       |
| TSP-5.50 | 3.20 - 5.50                      | Surface  | IP65       | 1       |
| TSP-8.50 | 5.00 - 8.50                      | Surface  | IP65       | 1       |
| TSP-13.0 | 8.00 - 13.00                     | Surface  | IP65       | 1       |
| TSP-16.0 | 11.00 - 16.00                    | Surface  | IP65       | 1       |



TSG-0.32

### TSG-Flush Type

| Code     | Current Calibration Interval (A) | Mounting | Protection | Box/Pcs |
|----------|----------------------------------|----------|------------|---------|
| TSG-0.32 | 0.18 - 0.32                      | Flush    | IP65       | 1       |
| TSG-0.55 | 0.30 - 0.55                      | Flush    | IP65       | 1       |
| TSG-0.70 | 0.40 - 0.70                      | Flush    | IP65       | 1       |
| TSG-1.00 | 0.60 - 1.00                      | Flush    | IP65       | 1       |
| TSG-1.60 | 0.90 - 1.60                      | Flush    | IP65       | 1       |
| TSG-2.50 | 1.50 - 2.50                      | Flush    | IP65       | 1       |
| TSG-3.50 | 2.40 - 3.50                      | Flush    | IP65       | 1       |
| TSG-5.50 | 3.20 - 5.50                      | Flush    | IP65       | 1       |
| TSG-8.50 | 5.00 - 8.50                      | Flush    | IP65       | 1       |
| TSG-13.0 | 8.00 - 13.00                     | Flush    | IP65       | 1       |
| TSG-16.0 | 11.00 - 16.00                    | Flush    | IP65       | 1       |