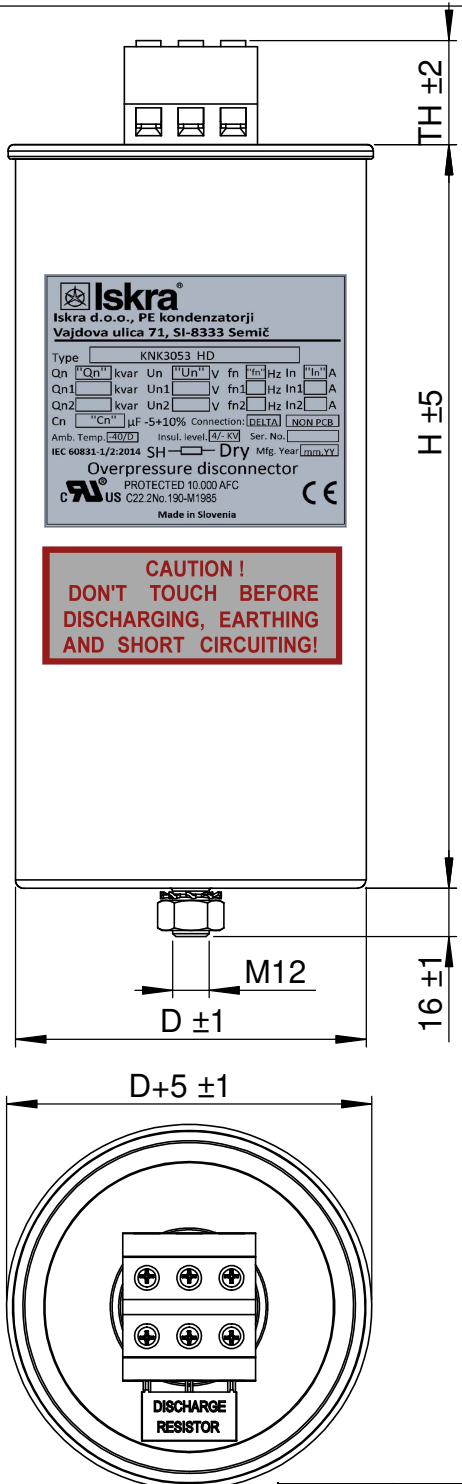


Unless otherwise specified apply the following tolerances

| | |
|--------------------------|------|
| to 6 | ±0,1 |
| above to 6 to 30 | ±0,2 |
| above to 30 to 100 | ±0,3 |
| above to 100 to 300 | ±0,5 |
| above to 300 to 1000 | ±0,8 |
| above to 1000 to 2000 | ±1,2 |
| above to 2000 to 4000 | ±2 |
| above 4000 | ±3 |



| | |
|--|--|
| Capacitor Type | KNK3053 |
| Technical data | |
| Standard | IEC 60831-1/2 |
| Connection | Delta |
| Rated reactive power (Q _n) | see table below |
| Rated voltage (U _n) | see table below |
| Rated frequency (f _n) | 60 Hz |
| Rated capacitance (C _n) | see table below |
| Capacitance tolerance | -5/10 % |
| Rated current (I _n) | see table below |
| Dielectric losses | ≤ 0.2 W/kVAr |
| Total losses | ≤ 0.5 W/kVAr |
| Temperature category | -40/D |
| Max. Humidity | 95 % |
| Cooling | Forced ventilation or naturally air cooled |
| Max. overvoltage | 1.1 x U _n (8 h/day) |
| | 1.15 x U _n (30 min/day) |
| | 1.2 x U _n (5 min - 200 times per life time) |
| | 1.3 x U _n (1 min - 200 times per life time) |
| Max. overcurrent | 2 x I _n (Heavy duty) (including combined effects of overvoltages, harmonics and capacitance tolerance) |
| Inrush current | 200 x I _n |
| Expected life time | > 150.000 h (Heavy Duty) |
| Discharge resistor | to 75V < 3min |
| Altitude | Up to 4000 m |
| Insulation level | 4/8 kV |
| Routine Tests | |
| Terminal to terminal | 2.15 x U _n , 2 s |
| Terminal to case | 4 kV, 2 s |
| Sealing test | N/A |
| Mechanical parameters | |
| Diameter (D) | see table below |
| Height (H) | see table below |
| Terminals per phase / Terminal height (TH) / Max. torque / Max current | 2 x 16 mm ² / 30 mm / 2 Nm / 35 A for D=75 mm 2 x 25 mm ² / 35 mm / 3 Nm / 65 A for D≥75 mm |
| Mounting and grounding / Max. torque | Threaded M12 bolt / 10 Nm |
| Mounting position | Vertical with terminal pointing upwards or horizontal |
| Protection | IP20 |
| Clearance distance | > 16 mm |
| Creepage distance | > 16 mm |
| Safety device | Overpressure disconnector (all phases) |
| Material parameters | |
| Dielectric | Self healing metallized polypropylene film |
| Filling | Dry (filled with non PCB polyurethane resin) |
| Case | Aluminium |

| Q (kvar) | U (V) | I (A) | C _n (μF) | D (mm) | H (mm) | Weight (kg) | UL 810 approval |
|----------|-------|----------|---------------------|--------|--------|-------------|-----------------|
| 5 | 240 | 3 x 12 | 3 x 76,8 | 75 | 165 | 0,9 | • |
| 7,5 | 240 | 3 x 18 | 3 x 115,1 | 75 | 210 | 1,1 | • |
| 10 | 240 | 3 x 24,1 | 3 x 153,5 | 90 | 210 | 1,5 | • |
| 12,5 | 240 | 3 x 30,1 | 3 x 191,9 | 90 | 245 | 1,6 | • |
| 15 | 240 | 3 x 36,1 | 3 x 230,3 | 90 | 245 | 1,8 | • |
| 20 | 240 | 3 x 48,1 | 3 x 307 | 116 | 210 | 2,5 | • |

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| | | | |
|-----------|------------|--------------|-------------------------------------|
| material | protection | standard | issue |
| changes | 1 | 2 | 3 |
| request. | 4 | 5 | 6 |
| date | 7 | 8 | 9 |
| signature | 10 | | |
| design. | date | signature | name |
| approved | 2.12.2022 | D. Peganc | Capacitor KNK3053 Heavy Duty |
| stand. | 2.12.2022 | E. Spasevska | |
| | | | |

RRN 546/22-1

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