

# Series KTU9 UL489 Molded Case Circuit Breakers

Versatile, convenient  
and space saving...  
for a variety of  
applications

Sprecher+Schuh's KTU9 series of UL Molded Case Circuit Breakers are UL489 and CE listed for global applications. The current limiting circuit breaker provides fixed short circuit and overcurrent protection and offers high interrupting ratings for 2- and 3-pole devices from 0.5 to 40A. These Circuit breakers are 100% rated up to 10A.

Accessories are intelligently designed to be field installed. The compact busbars and supply blocks reduce wiring errors and installation labor cost. Connection modules for the CA7 Contactors simplify wiring and can reduce the number of DIN rails required, compacting panel space even further.



## Compare these advanced features

## Advantages...

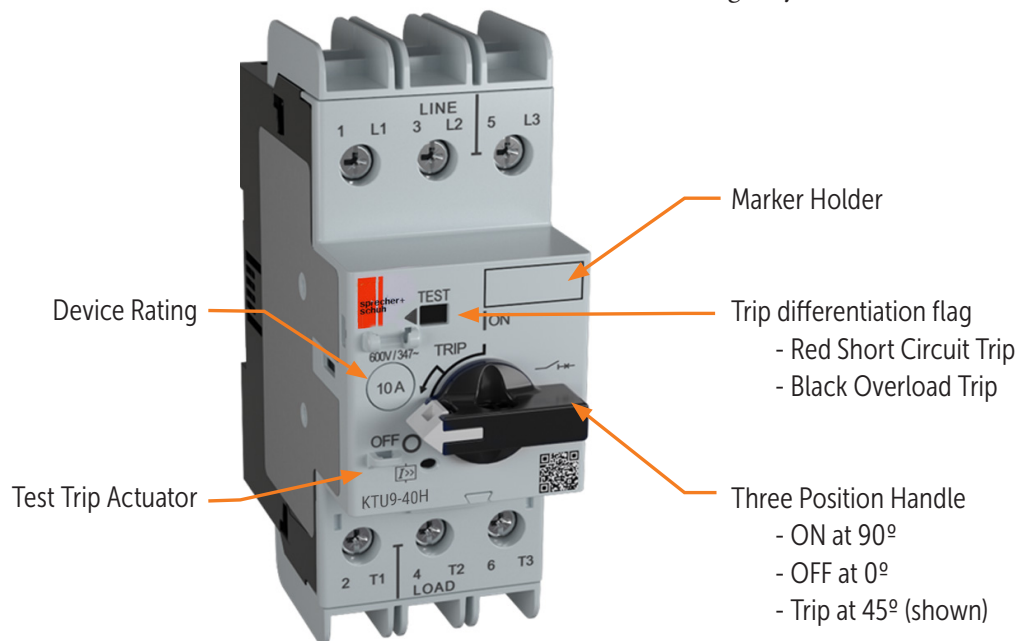
- Small foot print saves panel space, just 45 x 96 x 89 mm, up to 50% smaller than traditional MCCBs.
- Interrupt rating of 65kA at 480Y/277V may allow higher overall panel short circuit rating
- Up to 6 times higher interrupting rating vs. traditional miniature circuit breakers.

## Ideal Applications...

- Feeder Circuits
  - Small Cabinets
  - Distribution panels
  - Branch circuit protection
  - Transformers
  - Heaters
- Control Circuits
  - Control Transformers
  - Power supplies
- Heating, air conditioning and refrigeration (HACR)
- High-intensity discharge
- Switching duty (SWD) 15 and 20 A

**F2**

KTU9 Molded Case Circuit Breakers



**KTU9 Circuit Breaker, Fixed Thermal-Magnetic ②**

| Fixed Thermal<br>Current<br>Rating [A]            | Magnetic<br>Trip [A]     | Interrupting Rating (60Hz) [KA] |           |           | Catalog Number    |
|---------------------------------------------------|--------------------------|---------------------------------|-----------|-----------|-------------------|
|                                                   |                          | 240V                            | 480Y/277V | 600Y/347V |                   |
| KTU9-40H-2D — High Interrupting Capacity – 2-Pole |                          |                                 |           |           |                   |
| 0.5                                               | 15...20 x I <sub>n</sub> | 100                             | 100       | 50        | KTU9-40H-2D-0.5 ❶ |
| 1.0                                               | 15...20 x I <sub>n</sub> | 100                             | 100       | 50        | KTU9-40H-2D-1 ❶   |
| 2.0                                               | 15...20 x I <sub>n</sub> | 100                             | 100       | 50        | KTU9-40H-2D-2 ❶   |
| 3.0                                               | 15...20 x I <sub>n</sub> | 100                             | 100       | 50        | KTU9-40H-2D-3 ❶   |
| 4.0                                               | 15...20 x I <sub>n</sub> | 100                             | 100       | 50        | KTU9-40H-2D-4 ❶   |
| 5.0                                               | 15...20 x I <sub>n</sub> | 100                             | 100       | 50        | KTU9-40H-2D-5 ❶   |
| 6.0                                               | 15...20 x I <sub>n</sub> | 100                             | 100       | 50        | KTU9-40H-2D-6 ❶   |
| 8.0                                               | 15...20 x I <sub>n</sub> | 100                             | 100       | 50        | KTU9-40H-2D-8 ❶   |
| 10.0                                              | 15...20 x I <sub>n</sub> | 100                             | 100       | 50        | KTU9-40H-2D-10 ❶  |
| 12.0                                              | 15...20 x I <sub>n</sub> | 65                              | 65        | 25        | KTU9-40H-2D-12    |
| 15.0                                              | 15...20 x I <sub>n</sub> | 65                              | 65        | 25        | KTU9-40H-2D-15    |
| 20.0                                              | 15...20 x I <sub>n</sub> | 65                              | 65        | ~         | KTU9-40H-2D-20    |
| 25.0                                              | 15...20 x I <sub>n</sub> | 65                              | 65        | ~         | KTU9-40H-2D-25    |
| 30.0                                              | 15...20 x I <sub>n</sub> | 65                              | 65        | ~         | KTU9-40H-2D-30    |
| 35.0                                              | 14 x I <sub>n</sub>      | 65                              | 65        | ~         | KTU9-40H-2D-35    |
| 40.0                                              | 12 x I <sub>n</sub>      | 65                              | 65        | ~         | KTU9-40H-2D-40    |
| KTU9-40H-3D — High Interrupting Capacity – 3-Pole |                          |                                 |           |           |                   |
| 0.5                                               | 15...20 x I <sub>n</sub> | 100                             | 100       | 50        | KTU9-40H-3D-0.5 ❶ |
| 1.0                                               | 15...20 x I <sub>n</sub> | 100                             | 100       | 50        | KTU9-40H-3D-1 ❶   |
| 2.0                                               | 15...20 x I <sub>n</sub> | 100                             | 100       | 50        | KTU9-40H-3D-2 ❶   |
| 3.0                                               | 15...20 x I <sub>n</sub> | 100                             | 100       | 50        | KTU9-40H-3D-3 ❶   |
| 4.0                                               | 15...20 x I <sub>n</sub> | 100                             | 100       | 50        | KTU9-40H-3D-4 ❶   |
| 5.0                                               | 15...20 x I <sub>n</sub> | 100                             | 100       | 50        | KTU9-40H-3D-5 ❶   |
| 6.0                                               | 15...20 x I <sub>n</sub> | 100                             | 100       | 50        | KTU9-40H-3D-6 ❶   |
| 8.0                                               | 15...20 x I <sub>n</sub> | 100                             | 100       | 50        | KTU9-40H-3D-8 ❶   |
| 10.0                                              | 15...20 x I <sub>n</sub> | 100                             | 100       | 50        | KTU9-40H-3D-10 ❶  |
| 12.0                                              | 15...20 x I <sub>n</sub> | 65                              | 65        | 25        | KTU9-40H-3D-12    |
| 15.0                                              | 15...20 x I <sub>n</sub> | 65                              | 65        | 25        | KTU9-40H-3D-15    |
| 20.0                                              | 15...20 x I <sub>n</sub> | 65                              | 65        | ~         | KTU9-40H-3D-20    |
| 25.0                                              | 15...20 x I <sub>n</sub> | 65                              | 65        | ~         | KTU9-40H-3D-25    |
| 30.0                                              | 15...20 x I <sub>n</sub> | 65                              | 65        | ~         | KTU9-40H-3D-30    |
| 35.0                                              | 14 x I <sub>n</sub>      | 65                              | 65        | ~         | KTU9-40H-3D-35    |
| 40.0                                              | 12 x I <sub>n</sub>      | 65                              | 65        | ~         | KTU9-40H-3D-40    |

**Description**

The KTU9 is a fixed trip, thermal-magnetic UL489 Molded Case Circuit Breaker.



KTU9-40H-3D

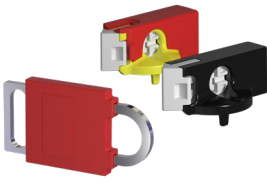
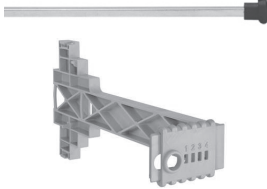
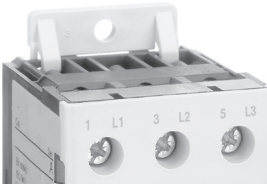


KTU9-40H-2D

❶ Suitable for continuous operation at 100% of rating only if used in minimum enclosure space of 250 x 175 x 150 mm (10 x 7 x 6 in).

❷ KTU9 has independent thermal elements suitable for power distribution applications (not two slide bar differential tripping).

**Accessories available for KTU9**

|                                                                                    |                                                                                                                                                                                    |                                                                                     |                                                                                                      |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|   | <p><b>KT9-P...<br/>Front/Side Mount Auxiliaries<br/>and Trip Contacts</b></p> <p>1-pole or 2-pole<br/>Side-mount not suitable for UL489<br/>applications</p> <p>See page F1:12</p> |   | <p><b>KT9-KN, KT9-KRY or KT9-DS</b></p> <p>See page F1:16</p>                                        |
|   | <p><b>KT9-UA Undervoltage Trips ③</b></p> <p>(UL 489 application up to 30 A)<br/>See page F1:14</p>                                                                                |   | <p><b>Handle Assemblies<br/>KT9-SY or KT9-SB<br/>KT9-HTN or KT9-HTRY ②</b></p> <p>See page F1:15</p> |
|  | <p><b>KT9-HT/HTL, KT9-S_/N_ &amp; KT9-SHS<br/>Extension Shafts &amp; Support</b></p> <p>See page F1:15</p>                                                                         |  | <p><b>KT9-N45<br/>Screw Adaptor</b></p> <p>See page F1:16</p>                                        |

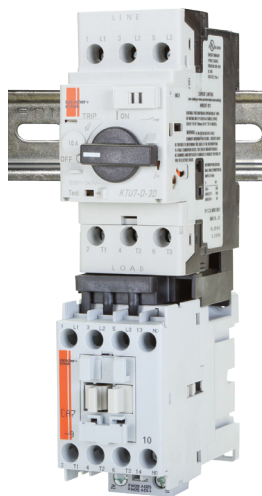
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**KTU9 Molded Case Circuit Breakers**



**Extension Shaft Support Assembly**

The KT9-SHS is recommended for handle shafts KT9-HT\_ or KT9-S\_/N\_ in lengths greater than 200mm (7.8 inches).  
See page F1:31

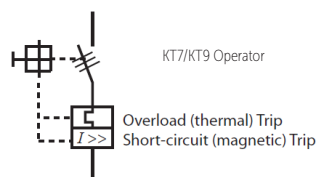


**Remote Operation Application**

The KTU9 3-Pole unit can be combined with CA7 using Connector Modules to achieve remote operation.

- For CA7-9...23 use KTU9-40H-PEC23

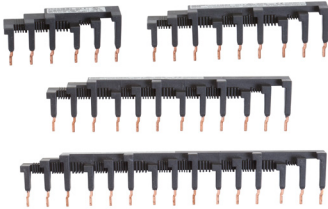
- ① Series B or later.
- ② Series E or later.
- ③ Undervoltage Trip Connection Diagram



Connecting Modules (for connecting KTU9 to CA7 AC coil, or CA7 Electronic DC coil contactors)

| Module                                                                            | Description                                                                                                                                                                                                                                                                                                                      | For Connecting... | To Contactor... | Catalog Number      |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|---------------------|
|  | <b>Connecting Modules</b> <ul style="list-style-type: none"><li>• 25 Amp maximum</li><li>• Provides electrical and mechanical interconnection of KTU9 3-Pole and CA7 (with AC coils) or CA7-_E (with 12V or 24V Electronic DC coils)</li><li>• KTU9 and Contactor mount on one DIN rail (see previous page for visual)</li></ul> | KTU9-40H          | CA7-9...23      | <b>KTU9-D-PEC23</b> |

Compact Busbar System for KTU9

| Accessory                                                                          | Description                                                                                                                                                                                                                                                                                                                   | For Use With | Catalog Number                                                                                   |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------|
|   | <b>Compact Busbar — 45 mm Spacing (Rated 64 A)</b> <ul style="list-style-type: none"><li>• For use with front-mounted auxiliary contact<ul style="list-style-type: none"><li>Connects 2-KTU9s</li><li>Connects 3-KTU9s</li><li>Connects 4-KTU9s</li><li>Connects 5-KTU9s (shown)</li></ul></li></ul>                          | KTU9-40H-3D  | <b>KTU9-D-DB-45-2</b><br><b>KTU9-D-DB-45-3</b><br><b>KTU9-D-DB-45-4</b><br><b>KTU9-D-DB-45-5</b> |
|  | <b>Supply Block and Terminal</b> <ul style="list-style-type: none"><li>• For power connection to Compact Busbar — 600V, KTU9-D...64A maximum</li><li>• Top feed — overlaps commoning link</li><li>• Meets requirements for terminal spacing from source</li><li>• Compliant with UL489 Terminal Clearance standards</li></ul> | KTU9-40H-3D  | <b>KTU9-D-A3E</b>                                                                                |

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KTU9 Molded Case Circuit Breakers

## IEC Performance Data

(CSA C22.2, UL 489, IEC / EN 60947-1, -2 in connection with a short-circuit protection device)

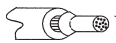
|                                                                |     | KTU9-40H- 2 pole & 3 pole |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|----------------------------------------------------------------|-----|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                                                                |     | 0.5A                      | 1A   | 2A  | 3A  | 4A  | 5A  | 6A  | 8A  | 10A | 12A | 15A | 20A | 25A | 30A | 35A | 40A |
| Rated Operational Current $I_n$                                | [A] | 0.5                       | 1    | 2   | 3   | 4   | 5   | 6   | 8   | 10  | 12  | 15  | 20  | 25  | 30  | 35  | 40  |
| Fixed Thermal Trip $I_r = I_n$                                 | [A] | 0.5                       | 1    | 2   | 3   | 4   | 5   | 6   | 8   | 10  | 12  | 15  | 20  | 25  | 30  | 35  | 40  |
| Fixed Magnetic Trip $I_m =$                                    | [A] | 15...20 x $I_n$           |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Ultimate Short Circuit Breaking Capacity (50 Hz) $I_{cu}$      |     | 230/240V                  | [kA] | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
|                                                                |     | 400/415V                  | [kA] | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 65  | 65  | 65  | 65  | 65  | 65  |
|                                                                |     | 500/525V                  | [kA] | 65  | 65  | 65  | 65  | 65  | 65  | 65  | 65  | 65  | 65  | 65  | 65  | 65  | 65  |
|                                                                |     | 690V                      | [kA] | 50  | 50  | 18  | 18  | 18  | 18  | 10  | 10  | 10  | 10  | 10  | 10  | 10  | 10  |
| Rated Service Short Circuit Breaking Capacity (50 Hz) $I_{cs}$ |     | 230/240V                  | [kA] | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
|                                                                |     | 400/415V                  | [kA] | 65  | 65  | 65  | 65  | 65  | 65  | 65  | 65  | 50  | 50  | 50  | 50  | 50  | 50  |
|                                                                |     | 500/525V                  | [kA] | 65  | 65  | 65  | 65  | 65  | 65  | 65  | 65  | 50  | 50  | 50  | 25  | 25  | 25  |
|                                                                |     | 690V                      | [kA] | 50  | 50  | 10  | 10  | 10  | 10  | 6   | 6   | 6   | 6   | 6   | 6   | 6   | 6   |

F2

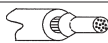
KTU9 Molded Case Circuit Breakers

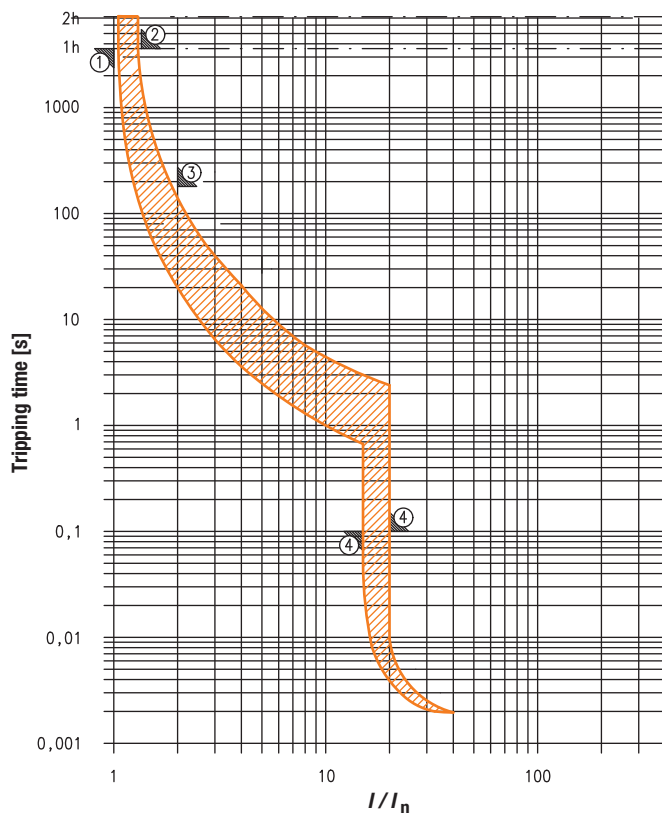
### General Data

|                                                                                                                                |                                                                                         |                        | KTU9-D                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Number of Poles</b>                                                                                                         |                                                                                         |                        | 2 and 3                                                                                                                      |
| <b>Rated Insulation</b>                                                                                                        | IEC, / EN                                                                               | [V]                    | 690                                                                                                                          |
| <b>Voltage <math>U_i</math></b>                                                                                                | UL, CSA                                                                                 | [V]                    | 690                                                                                                                          |
| <b>HACR Ratings</b>                                                                                                            | Suitable for continuous operation at 100% of rating only if used in enclosure space for | 480Y/277V<br>600Y/347V | 0.5...15 A, cubicle space 250 x 175 x 150 mm (10 x 7 x 6 in)<br>0.5...15 A, cubicle space 300 x 175 x 150mm (11.8 x 7 x 6in) |
|                                                                                                                                | Pollution degree                                                                        |                        | 3                                                                                                                            |
| <b>Rated Impulse</b>                                                                                                           | Main circuits $U_{imp}$ /Overvoltage Category                                           |                        | 6 kV/III                                                                                                                     |
| <b>Withstand Voltage <math>U_{imp}</math></b>                                                                                  | Auxiliary circuits $U_{imp}$ /Overvoltage Category                                      |                        | 6 kV/III                                                                                                                     |
|                                                                                                                                | Safe separation between main and auxiliary circuits                                     |                        | up to 400V                                                                                                                   |
| <b>Rated Frequency</b>                                                                                                         |                                                                                         | [Hz]                   | 50/60                                                                                                                        |
| <b>Utilization Category</b>                                                                                                    | IEC 60947-2 (Circuit breaker)                                                           |                        | A                                                                                                                            |
| <b>Life Span</b>                                                                                                               | Mechanical                                                                              | [operations]           | 100,000                                                                                                                      |
|                                                                                                                                | Electrical ( $I_e$ max.)                                                                | [operations]           | 10,000                                                                                                                       |
|                                                                                                                                | Switching Frequency                                                                     | [operations/hour]      | max. 25                                                                                                                      |
| <b>Ambient Temperature</b>                                                                                                     | Storage                                                                                 | [ °C (°F)]             | -40...+80                                                                                                                    |
|                                                                                                                                | Operation                                                                               | [ °C (°F)]             | -25...+60 (70 with 15% In current reduction)<br>(-13...+140 °F [+158 with 15% In current reduction])                         |
| <b>Climate Resistance</b>                                                                                                      | Moisture / Heat Resistance                                                              | (600068-2-30)          | 23 °C (73 °F)/83% relative humidity and<br>40 °C (104 °F) /92% relative humidity, 56 cycles                                  |
|                                                                                                                                | Dry Heat                                                                                | (60086-2-2)            | 100 °C (212 °F), relative humidity < 50%, 7 days                                                                             |
|                                                                                                                                | Moisture Heat                                                                           | (60068-2-3)            | 40 °C (104 °F), relative humidity 93%, 56 days                                                                               |
| <b>Site Altitude</b>                                                                                                           |                                                                                         | [m]                    | up to 2000 N.N. (6561 ft)                                                                                                    |
| <b>Protection Class</b>                                                                                                        |                                                                                         |                        | IP2X when wired                                                                                                              |
| <b>Resistance to Shock, Transport</b>                                                                                          |                                                                                         | (60068-2-27)           | 30G, 11 ms, all axes                                                                                                         |
| <b>Resistance to Vibration, Operation</b>                                                                                      |                                                                                         | (60068-2-6)            | 18 G                                                                                                                         |
| <b>Overload Protection Characteristics</b>                                                                                     |                                                                                         |                        | Yes per IEC/EN 60947-2, UL489, CSA 22.2                                                                                      |
| <b>Ambient Temperature Compensation</b>                                                                                        |                                                                                         | [ °C (°F)]             | -25...+60 (-13...+140)                                                                                                       |
| <b>Phase-loss Protection</b>                                                                                                   |                                                                                         |                        | No                                                                                                                           |
| <b>Short-circuit protection (Magnetic)</b>                                                                                     |                                                                                         |                        | fixed setting 15...20 x In, (35 A - 14 x In and 40 A - 12 x In)                                                              |
| <b>Backfeeding</b>                                                                                                             |                                                                                         |                        | Suitable for backfeeding up to 480Y/277V                                                                                     |
| <b>Total Power loss <math>P_v</math></b>                                                                                       | at In max                                                                               | [W]                    | 7.5                                                                                                                          |
| <b>Main Disconnect Switch Application</b>                                                                                      |                                                                                         |                        | Yes, with accessories                                                                                                        |
| <b>HID (High Intensity Discharge) Listed</b>                                                                                   |                                                                                         |                        | 0.5...40 A                                                                                                                   |
| <b>Switching Duty</b>                                                                                                          |                                                                                         |                        | 15 A, 20 A                                                                                                                   |
| <b>Heating, air conditioning and refrigeration (HACR)</b>                                                                      |                                                                                         |                        | 0.5...40 A                                                                                                                   |
| For utilization outside North America, assemblies (of products) shall comply to the IEC 61439-1 requirements                   |                                                                                         |                        |                                                                                                                              |
| KTU9 are intended for use in closed areas without hazardous operating conditions such as dust or explosive or corrosive gases. |                                                                                         |                        |                                                                                                                              |
| Enclosures of appropriate manner need to be in place to protect devices in such environments.                                  |                                                                                         |                        |                                                                                                                              |
| <b>Standards Compliance</b>                                                                                                    |                                                                                         |                        | UL489; CSA C22.2 No. 5(1); IEC / EN 60947-1, -2                                                                              |
| <b>Certifications</b>                                                                                                          |                                                                                         |                        | CE; cULus Listed Circuit Breaker                                                                                             |

| Connection                                                                                                                   |  | No. of conductors | KTU9 ≤ 15A                                                                          | KTU9 > 15A                                                                            |
|------------------------------------------------------------------------------------------------------------------------------|--|-------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Power Terminals</b>                                                                                                       |  |                   |  |  |
| Terminal Type                                                                                                                |  |                   | Screw Clamp up to 16 A, M4                                                          | Screw Clamp greater than 16 A, M4                                                     |
| Screwdriver                                                                                                                  |  |                   | Pozidriv No.2/Blade No.3                                                            | Pozidriv No.2/Blade No.3                                                              |
| Solid or stranded                         |  | 1 conductor       | 1...6 mm <sup>2</sup>                                                               | 1.5...10 mm <sup>2</sup>                                                              |
|                                                                                                                              |  | 2 conductor       | 1...2.5 mm <sup>2</sup><br>2.5...6 mm <sup>2</sup>                                  | 1.5...4 mm <sup>2</sup><br>4...10 mm <sup>2</sup>                                     |
| Flexible with ferrule (end sleeve)        |  | 1 conductor       | 1...6 mm <sup>2</sup>                                                               | 1.5...10 mm <sup>2</sup>                                                              |
|                                                                                                                              |  | 2 conductor       | 1...2.5 mm <sup>2</sup><br>2.5...4 mm <sup>2</sup>                                  | 1.5...4 mm <sup>2</sup><br>4...10 mm <sup>2</sup>                                     |
| Finely stranded                           |  | 1 conductor       | 1.5...6 mm <sup>2</sup>                                                             | 2.5...10 mm <sup>2</sup>                                                              |
|                                                                                                                              |  | 2 conductor       | 1.5...4 mm <sup>2</sup><br>2.5...6 mm <sup>2</sup>                                  | 2.5...6 mm <sup>2</sup><br>4...10 mm <sup>2</sup>                                     |
| Cross section per UL/CSA solid, stranded  |  | 1 conductor       | No. 14...10 AWG                                                                     | No. 14...8 AWG                                                                        |
|                                                                                                                              |  | 2 conductor       | No. 14...10 AWG                                                                     | No. 14...10 AWG<br>No. 12...8 AWG                                                     |
| Stripping length                                                                                                             |  |                   | 10 mm (0.39 in.)                                                                    | 10 mm (0.39 in.)                                                                      |
| Tightening torque                                                                                                            |  | [Nm]/[lb-in.]     | 2...2.5 / 18...22                                                                   | 2...2.5/18...22                                                                       |

**Cat. No. KTU9-D-A3E Feeder Terminal Connecting Characteristics,  $I_{th} = 64A, 60^{\circ}C (140^{\circ}F)$** 

| Connection         |                                        | No. of Conductors                                                                   | KTU9-D-A3E                           |
|--------------------|----------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|
| Conductor Type     |                                        |                                                                                     | D Frame                              |
| Terminal Type      |                                        |                                                                                     | Box lugs                             |
| Screwdriver        |                                        |                                                                                     | Pozidriv No.2/Blade No.4             |
| Wiring             | Solid or stranded                      |  1 | 2.5...2 mm <sup>2</sup> , 14...4 AWG |
|                    | Flexible with ferrule (end sleeve)     |  1 | 2.5...2 mm <sup>2</sup> , 14...4 AWG |
|                    | Stripping length (De-isolation length) |                                                                                     | 14 mm (0.55 in.)                     |
| Tightening torques |                                        | [[N•m]                                                                              | 3...3.5                              |
|                    |                                        | [[lb•in]                                                                            | 27...31                              |

**Time-Current Characteristic**

**Tripping characteristic  
acc. to UL 489 and IEC 60947-2**

- ① conventional non-tripping  
current  $I_{nt} = 1.0 I_n$
- ② conventional tripping current  
 $I_t = 1.35 I_n : t = < 1h$
- ③  $2.0 I_n : t = 180s \text{ max.}$

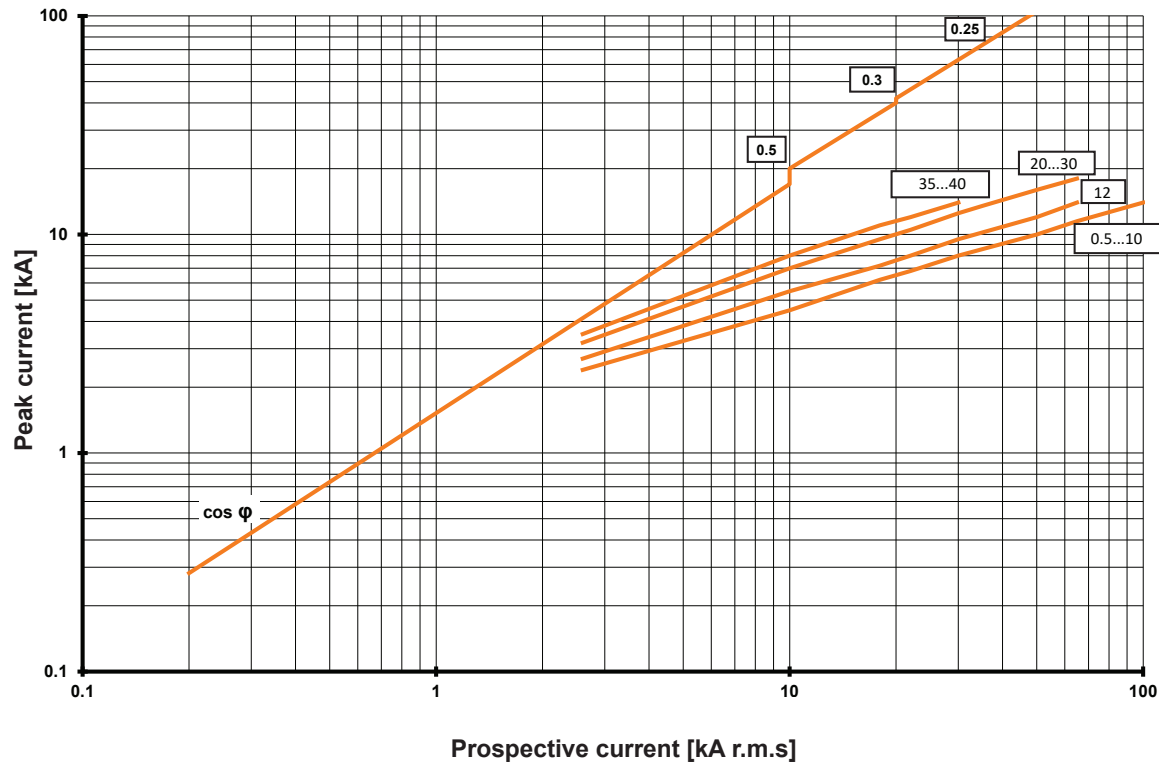
**Instantaneous tripping  
acc. to UL 489 and IEC 60947-2**

- ④ Trip Curve : 15...20  $I_n$

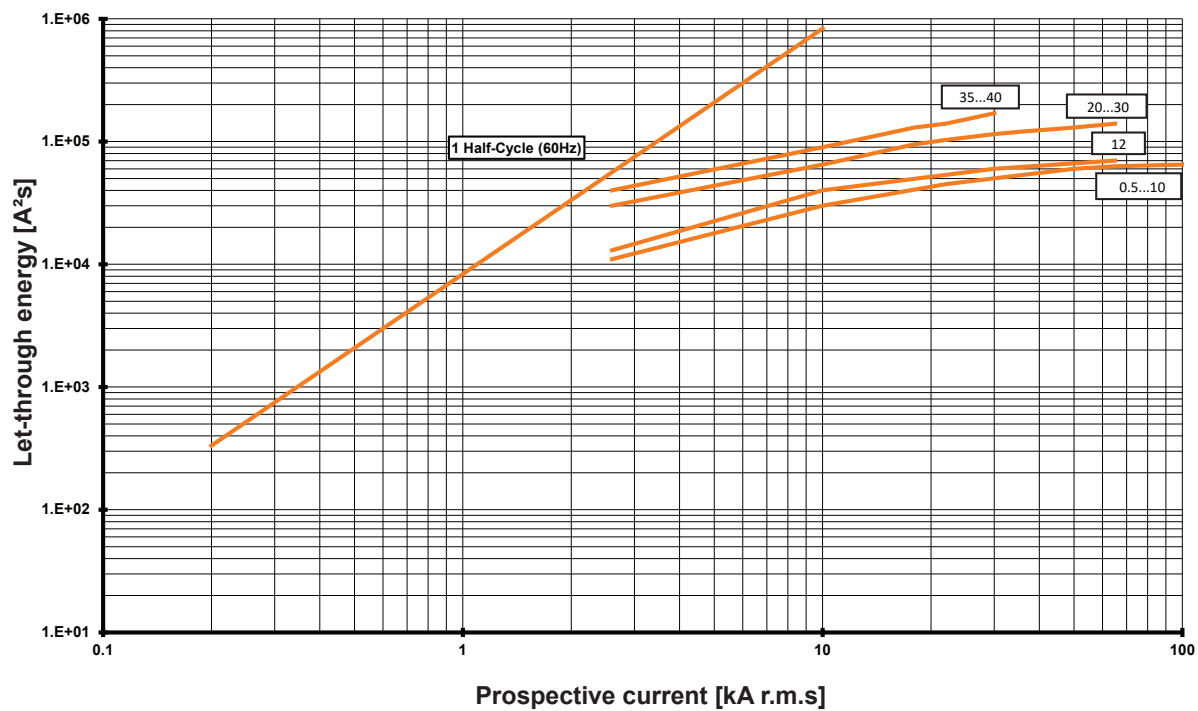
**F2**
**KTU9 Molded Case Circuit Breakers**

1

KTU9-40H-D\*-\*  
Max. Cut-Off Current at  $U_e=480V/60Hz$



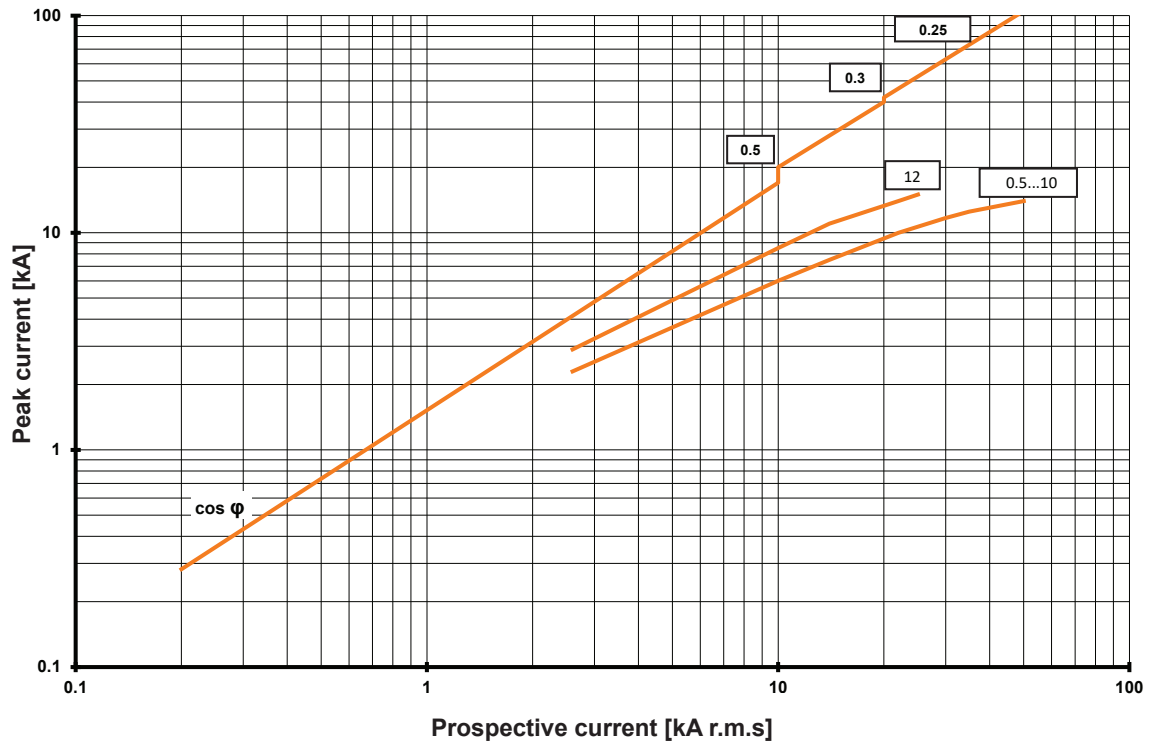
KTU9-40H-D\*-\*  
Max. Let-Through-Energy at  $U_e=480V/60Hz$



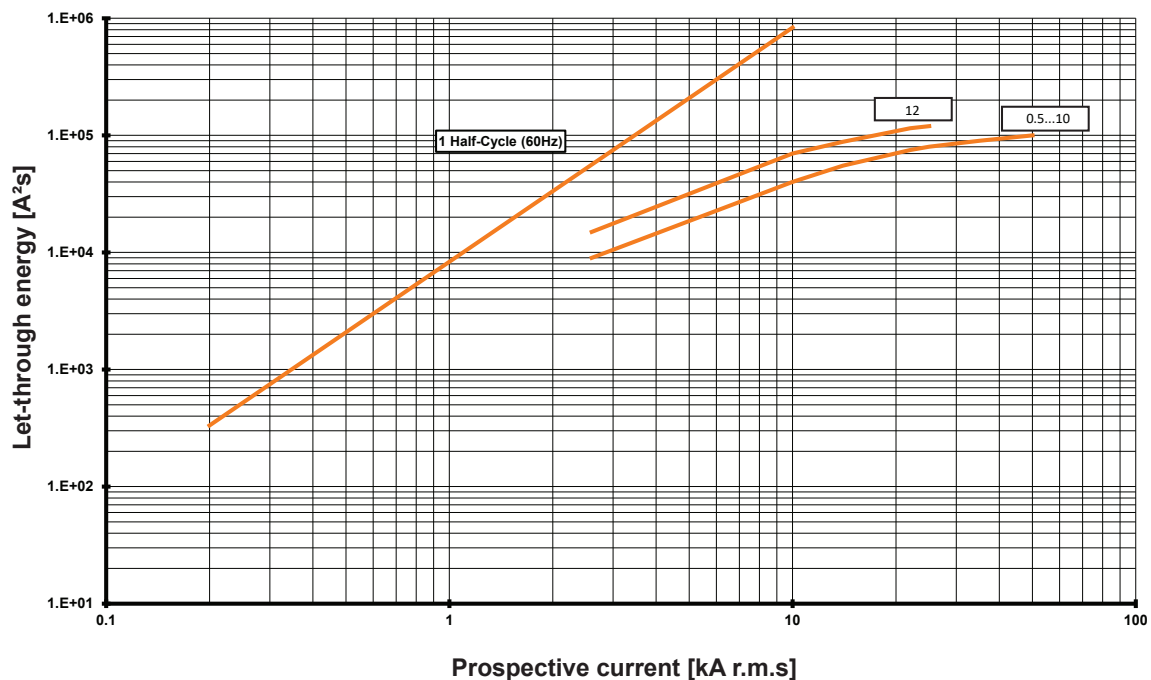
1 A full size (8-1/2 x 11) set of "Maximum Cut-Off Current (Let-Thru Current)" and "Maximum Let-thru Energy (I<sup>2</sup>t)" curves for 400...415V, 500V and 690V can be downloaded from <http://www.sprecherschuh.com>.

Cut-off Current ①

KTU9-40H-D\*-\*  
Max. Cut-Off Current at  $U_e=600V/60Hz$



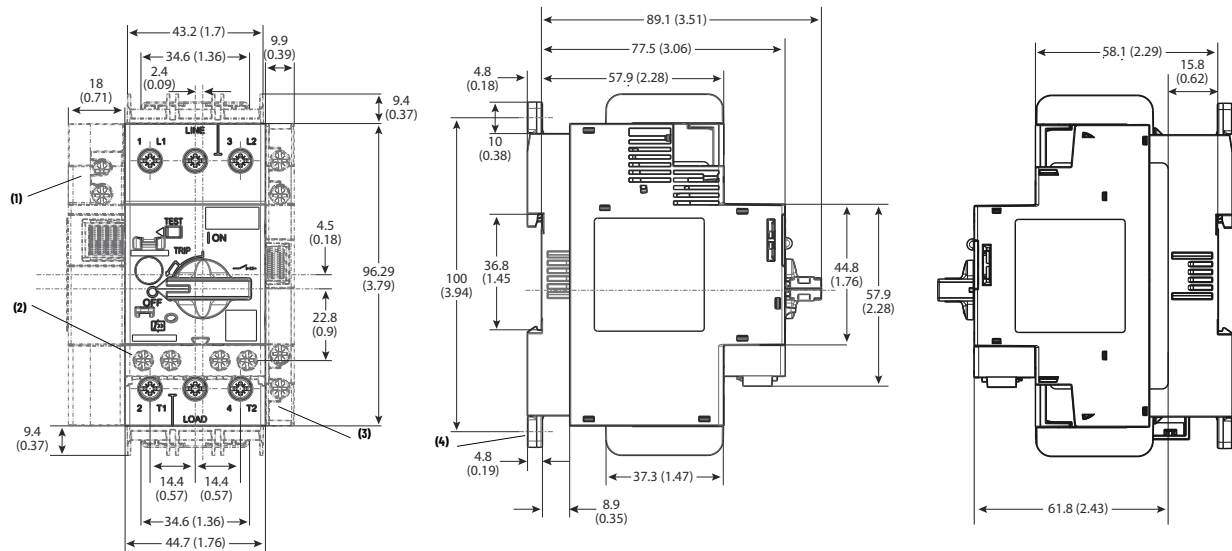
KTU9-40H-D\*-\*  
Max. Let-Through-Energy at  $U_e=600V/60Hz$



① A full size (8-1/2 x 11) set of "Maximum Cut-Off Current (Let-Thru Current)" and "Maximum Let-thru Energy (I<sup>2</sup>t)" curves for 400...415V, 500V and 690V can be downloaded from <http://www.sprecherschuh.com>.

### KTU9-40H Dimensions

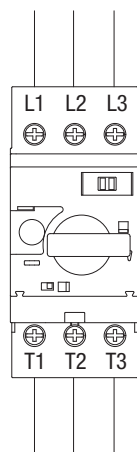
Dimensions are in millimeters (inches). Dimensions not intended for manufacturing purposes.



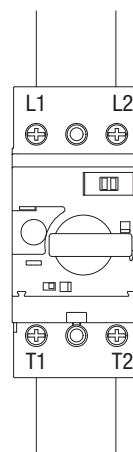
| Note | Information                       |
|------|-----------------------------------|
| 1    | Undervoltage/shunt trip           |
| 2    | Auxiliary contact (front mounted) |
| 3    | Auxiliary contact (side mounted)  |
| 4    | Screw mounting adapter            |

### KTU9 Wiring Diagram

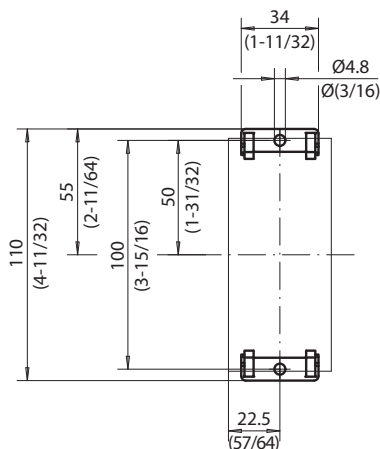
**3-Phase**  
**KTU9-40H-3D**



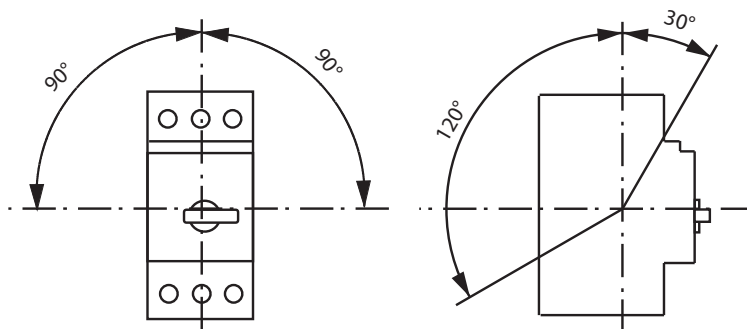
**2-Phase**  
**KTU9-40H-2D**



KTU9 with Screw Adaptor KT9-N45

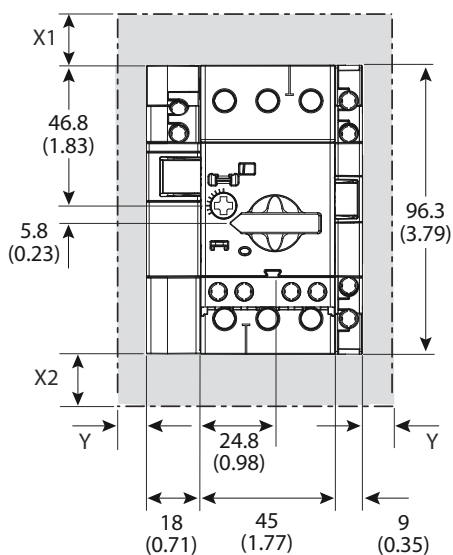


KTU9 Mounting Position



KTU9 Circuit Breaker Enclosure Requirements

Mounting Position and Spacing Requirements



| Voltage [V AC] | Minimum Distance to Grounded Parts or Walls [mm (in.)] |              |             |
|----------------|--------------------------------------------------------|--------------|-------------|
|                | X1                                                     | X2           | Y           |
| 400            | 30 (1-3/16)                                            | 30 (1-3/16)  | 9 (23/64)   |
| 500            | 30 (1-3/16)                                            | 30 (1-3/16)  | 9 (23/64)   |
| 690            | 50 (1-31/32)                                           | 50 (1-31/32) | 30 (1-3/16) |

F2

KTU9 Molded Case Circuit Breakers

## Notes

**F2**

## KTU9 Molded Case Circuit Breakers