

KUOYUH

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91 Series DataSheet

THERMAL OVERCURRENT CIRCUIT BREAKERS(PUSH-TO-RESET)

ISSUE KUOYUH

DATE CREATED 2007/7/16

AUTHOR Hunter Huang

EDITION C1

KUOYUH

91 Series Technical Data

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Rating: 1.0A-10.0A 125/250VAC 50VDC 50/60Hz

Interrupting Capacity: 1000 AMP 125VAC

Resettable Overload Capacity: 6 times rated current Vac

Dielectric Strength: 1,500VAC X 1 MINUTE

Contact Endurance: 125VAC X 150% of rated current > 500cycles

Voltage Drop: Less than 0.25V

Insulation resistance: > 500M OHMS

Reset Time: Push To Reset (With 60 sec)

Minimun Electrical Activation cycles: at 400% of rated current>300 Cycles

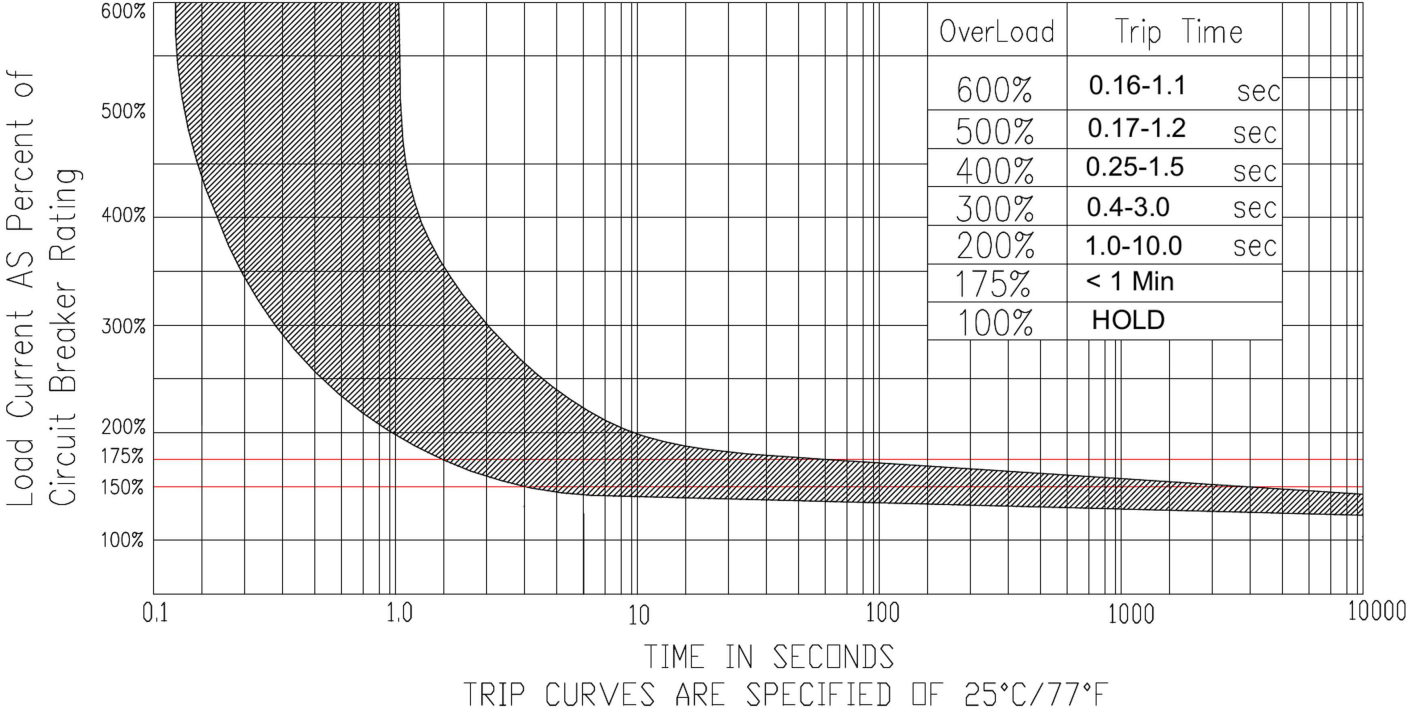
Temperature Rise at Terminal Black: Less than 65°C at 100% Rated current applied continuously at 25°C

RoHS Compliant: YES

UL File No: E155159(S)

TuV File No: R 72070120

Trip Time Curves



| ④ | | | | TOLERANCE | | APPROVED | CHECK | DESING | DRAWER | UNIT | mm | |
|---|----|-------------|----------|-----------|-----------|---------------------------------|------------------|--------|------------|----------|-----------------------------------|--|
| | | | | DIMENSION | TOLERANCE | | | | | | | |
| ③ | | | | XX.XX | ±0.05 | Hunter.H | Mark.C | John.L | Cewen.O | SCALE | 1:1 | |
| ② | | | | XX.X | ±0.1 | FILE NO | 91 Series | | | MATERIAL | Trip Time Curves | |
| ① | | | | XX | ±0.15 | REV | C1 | DATE | 20070716 | TITLE | 91 Series Thermal Circuit Breaker | |
| | NO | DESCRIPTION | APPROVED | DATE | X | KUOYUH W.L. Enterprise Co.,Ltd. | | | DRAWING NO | 07071601 | | |
| | | | | | X.X | | | | | | | |

Ambient Temperature Correction Factor

The time/current characteristic curve depends on the ambient temperature prevailing. In order to eliminate nuisance tripping. Please multiply the current breaker current ratings by the derating factor shown below.

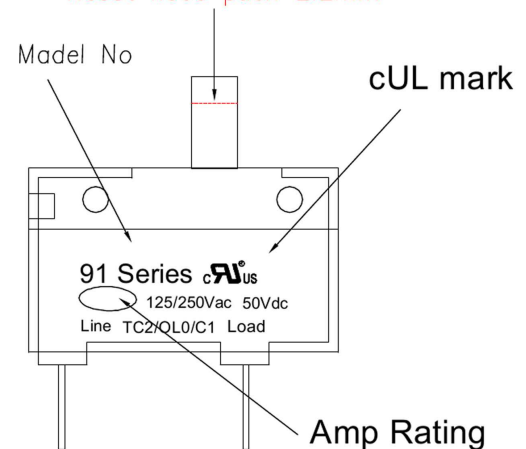
| Ambient temperature | -10°C | 0°C | 10°C | 25°C | 40°C | 50°C | 60°C |
|-----------------------|-------|------|------|------|------|------|------|
| Multiplication factor | 1.30 | 1.20 | 1.10 | 1.00 | 0.85 | 0.73 | 0.60 |

Max.Internal Resistance

| | |
|-------------|-----------|
| 1.0-2.0Amp | 0.175 Ohm |
| 2.1-3.0Amp | 0.125 Ohm |
| 3.1-3.7Amp | 0.050 Ohm |
| 3.8-5.0Amp | 0.040 Ohm |
| 5.1-7.0Amp | 0.030 Ohm |
| 7.1-10.0Amp | 0.020 Ohm |

Marking:

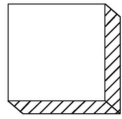
Reset need push 2.2mm



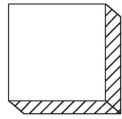
| 4 | 3 | 2 | 1 | TOLERANCE | | APPROVED | CHECK | DESING | DRAWER | UNIT | mm | |
|---|---|---|---|-----------|-----------|---------------------------------|-----------|--------|----------|------------|-----------------------------------|--|
| | | | | DIMENSION | TOLERANCE | | | | | | | |
| | | | | XX.XX | ±0.05 | Hunter.H | Mark.C | John.L | Cewen.O | SCALE | 1:1 | |
| | | | | XX.X | ±0.1 | FILE NO | 91 Series | | | MATERIAL | Derating Factor | |
| | | | | XX | ±0.15 | REV | C1 | DATE | 20070716 | TITLE | 91 Series Thermal Circuit Breaker | |
| | | | | ANGLE | TOLERANCE | KUOYUH W.L. Enterprise Co.,Ltd. | | | | DRAWING NO | 07071602 | |
| | | | | X | ±1° | | | | | | | |
| | | | | XX | ±0.5° | | | | | | | |

Order Guide:

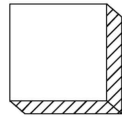
91-



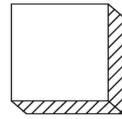
Type of Button



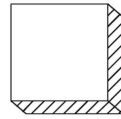
Fitting Plate



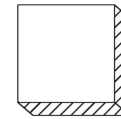
Color of Button



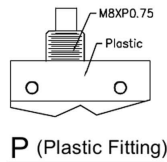
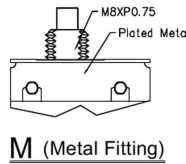
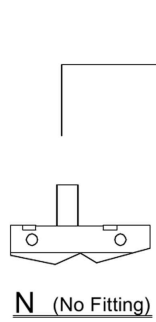
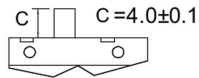
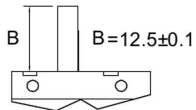
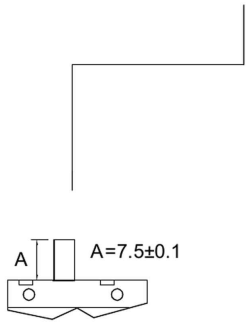
Rating Amp



Terminal Type



Terminal Finish



R=Red
B=Black
Y=Yellow
U=Bule (藍)
G=Gray (灰)

Standard Rating:

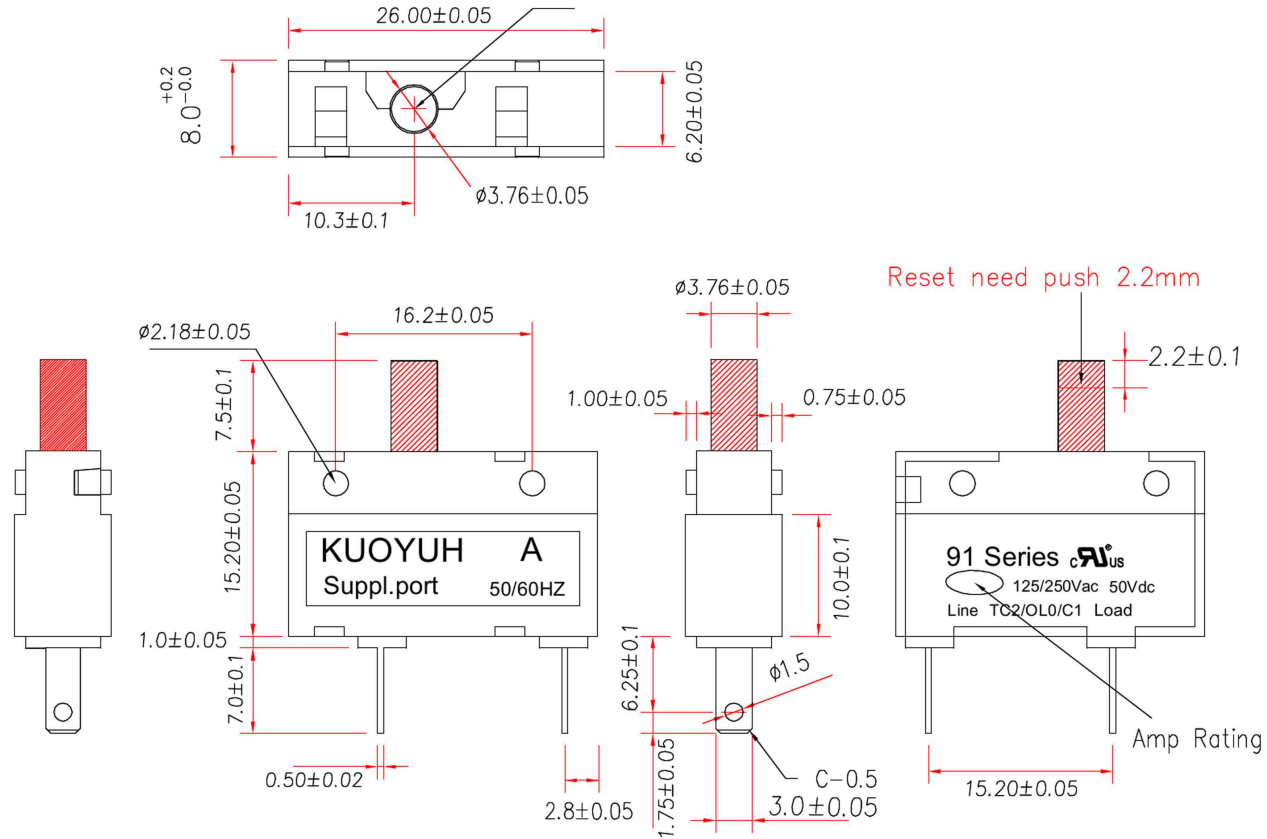
| | |
|-------|-------|
| 0.6A | 3.5A |
| 0.8A | 3.75A |
| 1.0A | 4.0A |
| 1.25A | 4.5A |
| 1.5A | 5.0A |
| 1.6A | 5.5A |
| 1.75A | 6.0A |
| 2.0A | 6.3A |
| 2.25A | 6.5A |
| 2.5A | 7.0A |
| 2.75A | 7.5A |
| 3.0A | 8.0A |
| 3.15A | 9.0A |
| 3.3A | 10.0A |

0= Plate with Tin
N= Plate with Nickel

| 0 | 2 | L |
|---|---|---|
| | | |

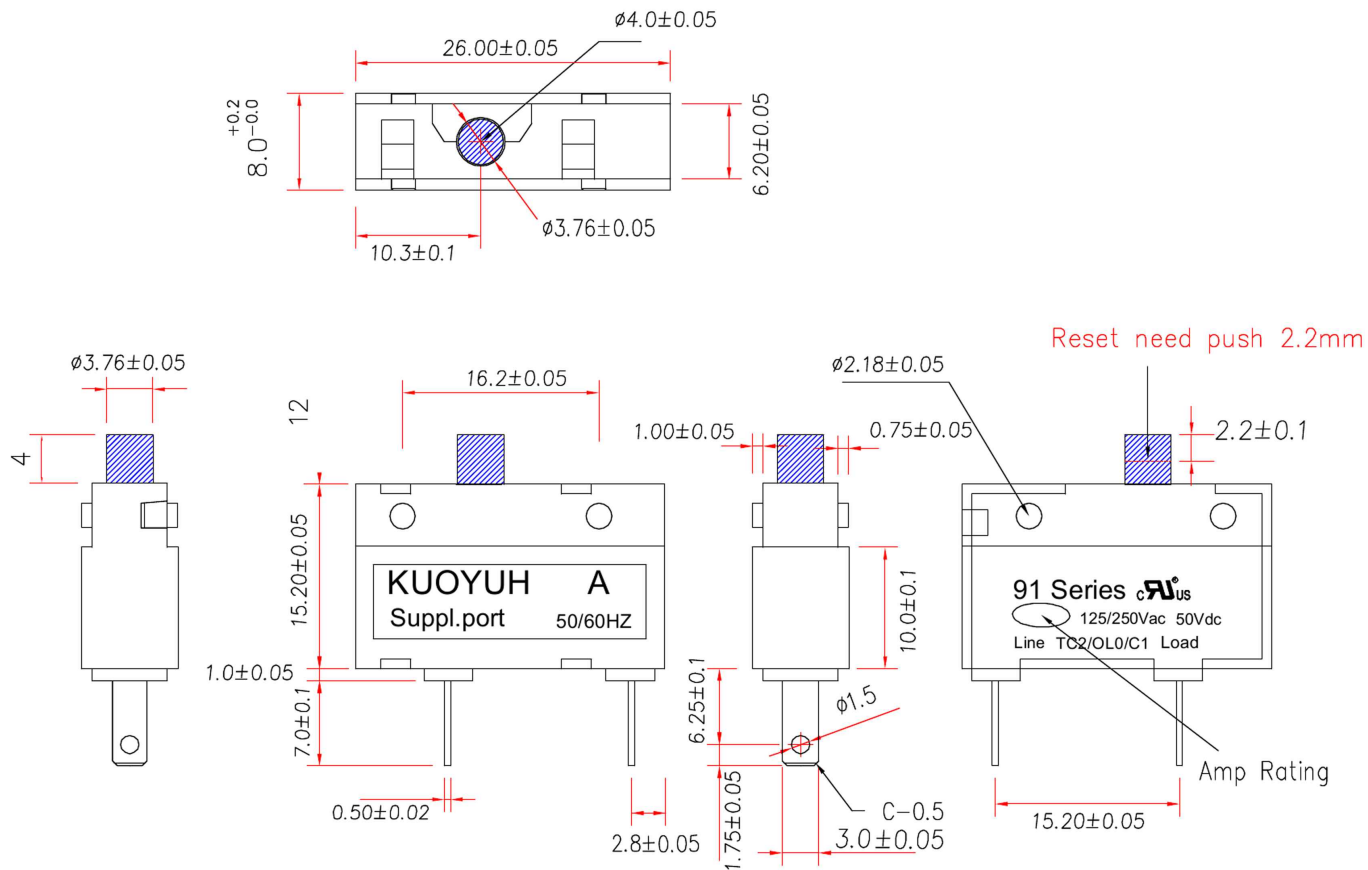
| NO | DESCRIPTION | APPROVED | DATE | TOLERANCE | | APPROVED | CHECK | DESING | DRAWER | UNIT | mm | |
|----|-------------|----------|------|-----------|-----------|---------------------------------|-----------|--------|------------|----------|-----------------------------------|--|
| | | | | DIMENSION | TOLERANCE | | | | | | | |
| 4 | | | | XX.XX | ±0.05 | Hunter.H | Mark.C | John.L | Cewen.O | SCALE | 1:1 | |
| 3 | | | | XX.X | ±0.1 | FILE NO | 91 Series | | | MATERIAL | Guide | |
| 2 | | | | XX | ±0.15 | REV | C1 | DATE | 20070716 | TITLE | 91 Series Thermal Circuit Breaker | |
| 1 | | | | X | ±1° | KUOYUH W.L. Enterprise Co.,Ltd. | | | DRAWING NO | 07071603 | | |
| | | | | X.X | ±0.5° | | | | | | | |

91-ANR-XX-00



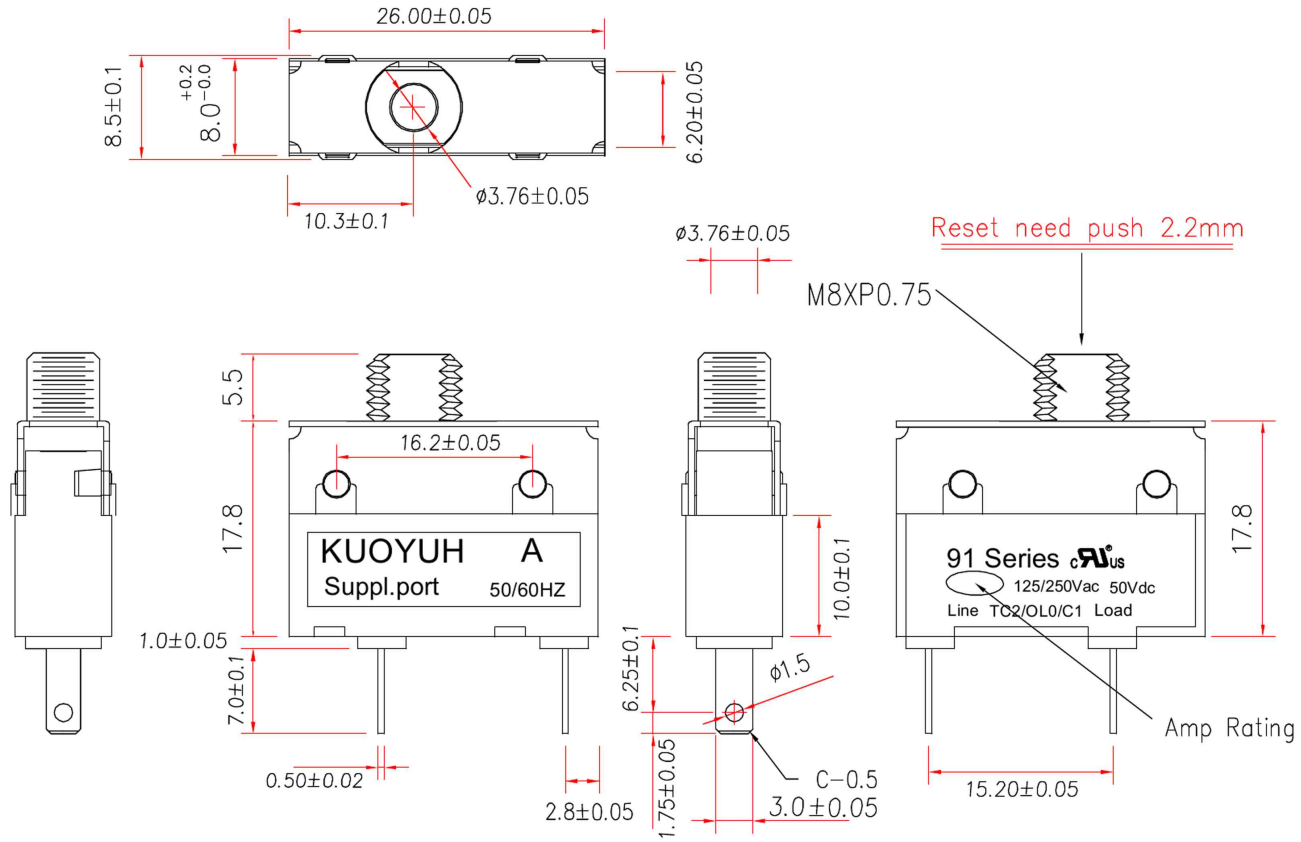
| NO | DESCRIPTION | APPROVED | DATE | TOLERANCE | | APPROVED | CHECK | DESING | DRAWER | UNIT | mm | |
|----|----------------------|----------|--------|-----------|-----------------|---------------------------------|-----------------------------------|--------|----------|----------|--------------|------------|
| | | | | DIMENSION | TOLERANCE | | | | | | | |
| 4 | | | | XX.XX | ± 0.05 | Hunter.H | Mark.C | John.L | Cewen.O | SCALE | 1:1 | |
| 3 | | | | XX.X | ± 0.1 | FILE NO | 91 Series Thermal Circuit Breaker | | | MATERIAL | 91-ANR-XX-00 | |
| 2 | | | | XX | ± 0.15 | REV | C1 | DATE | 20070716 | TITLE | 91 Series | |
| 1 | Markng Change For UL | Hunter.H | 950120 | ANGLE | TOLERANCE | KUOYUH W.L. Enterprise Co.,Ltd. | | | | | DRAWING NO | 07071604-2 |
| | | | | X | $\pm 1^\circ$ | | | | | | | |
| | | | | X.X | $\pm 0.5^\circ$ | | | | | | | |

91-CNG-XX-00



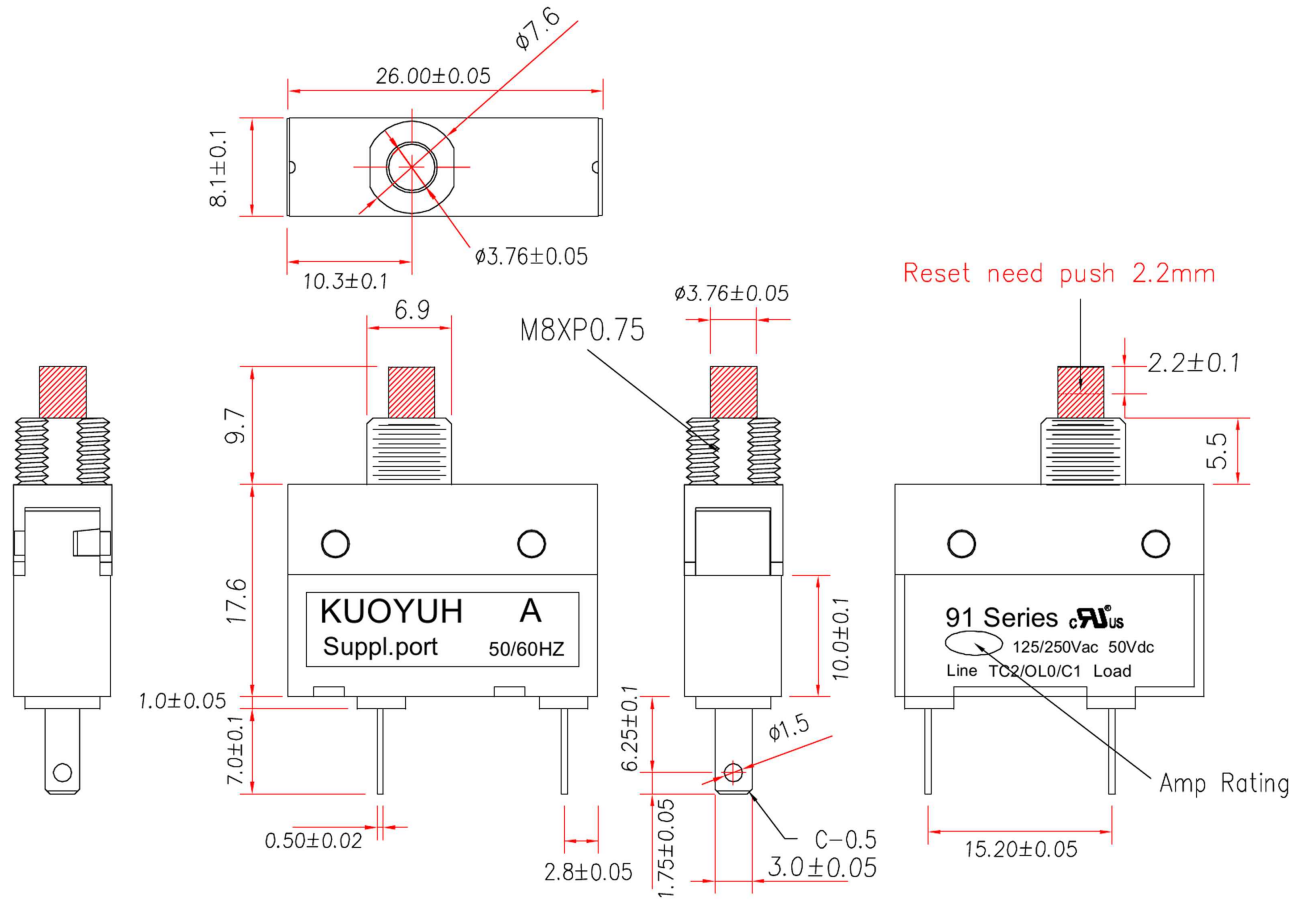
| NO | DESCRIPTION | APPROVED | DATE | TOLERANCE | | APPROVED | CHECK | DESING | DRAWER | UNIT | mm | |
|----|----------------------|----------|--------|-----------|-----------------|---------------------------------|-----------------------------------|--------|----------|------------|--------------|--|
| | | | | DIMENSION | TOLERANCE | | | | | | | |
| 4 | | | | XX.XX | ± 0.05 | Hunter.H | Mark.C | John.L | Cewen.O | SCALE | 1:1 | |
| 3 | | | | XX.X | ± 0.1 | FILE NO | 91 Series Thermal Circuit Breaker | | | MATERIAL | 91-CNG-XX-00 | |
| 2 | | | | XX | ± 0.15 | REV | C1 | DATE | 20070716 | TITLE | 91 Series | |
| 1 | Markng Change For UL | Hunter.H | 950120 | ANGLE | TOLERANCE | KUOYUH W.L. Enterprise Co.,Ltd. | | | | DRAWING NO | 07071604-3 | |
| | | | | X | $\pm 1^\circ$ | | | | | | | |
| | | | | X.X | $\pm 0.5^\circ$ | | | | | | | |

91-AMR-XX-00



| NO | DESCRIPTION | APPROVED | DATE | TOLERANCE | | APPROVED | CHECK | DESING | DRAWER | UNIT | mm | |
|----|----------------------|----------|--------|-----------|-----------|---------------------------------|-----------------------------------|--------|----------|------------|--------------|--|
| | | | | DIMENSION | TOLERANCE | | | | | | | |
| 4 | | | | XX.XX | ±0.05 | Hunter.H | Mark.C | John.L | Cewen.O | SCALE | 1:1 | |
| 3 | | | | XX.X | ±0.1 | | | | | | | |
| 2 | | | | XX | ±0.15 | FILE NO | 91 Series Thermal Circuit Breaker | | | MATERIAL | 91-AMR-XX-00 | |
| 1 | Markng Change For UL | Hunter.H | 950120 | ANGLE | TOLERANCE | REV | C1 | DATE | 20070716 | TITLE | 91 Series | |
| | | | | X | ±1° | KUOYUH W.L. Enterprise Co.,Ltd. | | | | DRAWING NO | 07071604-5 | |
| | | | | XX | | | | | | | | |

91-BPR-XX-00



| 4 | | | | TOLERANCE | | APPROVED | CHECK | DESING | DRAWER | UNIT | mm | |
|----|----------------------|----------|--------|-----------|-----------|---------------------------------|-----------------------------------|--------|----------|------------|--------------|--|
| | | | | DIMENSION | TOLERANCE | | | | | | | |
| 3 | | | | XX.XX | ±0.05 | Hunter.H | Mark.C | John.L | Cewen.O | SCALE | 1:1 | |
| 2 | | | | XX.X | ±0.1 | FILE NO | 91 Series Thermal Circuit Breaker | | | MATERIAL | 91-BPR-XX-00 | |
| 1 | Markng Change For UL | Hunter.H | 950120 | XX | ±0.15 | REV | C1 | DATE | 20070716 | TITLE | 91 Series | |
| NO | DESCRIPTION | APPROVED | DATE | ANGLE | TOLERANCE | KUOYUH W.L. Enterprise Co.,Ltd. | | | | DRAWING NO | 07071604-6 | |
| | | | | X | ±1° | | | | | | | |
| | | | | XX | ±0.5° | | | | | | | |

