

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 W.L.Enterprise Co.,Ltd.

647 NO.11-6 HsiMei,TameiTusuen,Tsutang Hsiang,YunLin Hsien,Taiwan R.O.C.

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KUOYUH

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91 Series Technical Data

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

KUOYUH W.L.Enterprise Co.,Ltd.

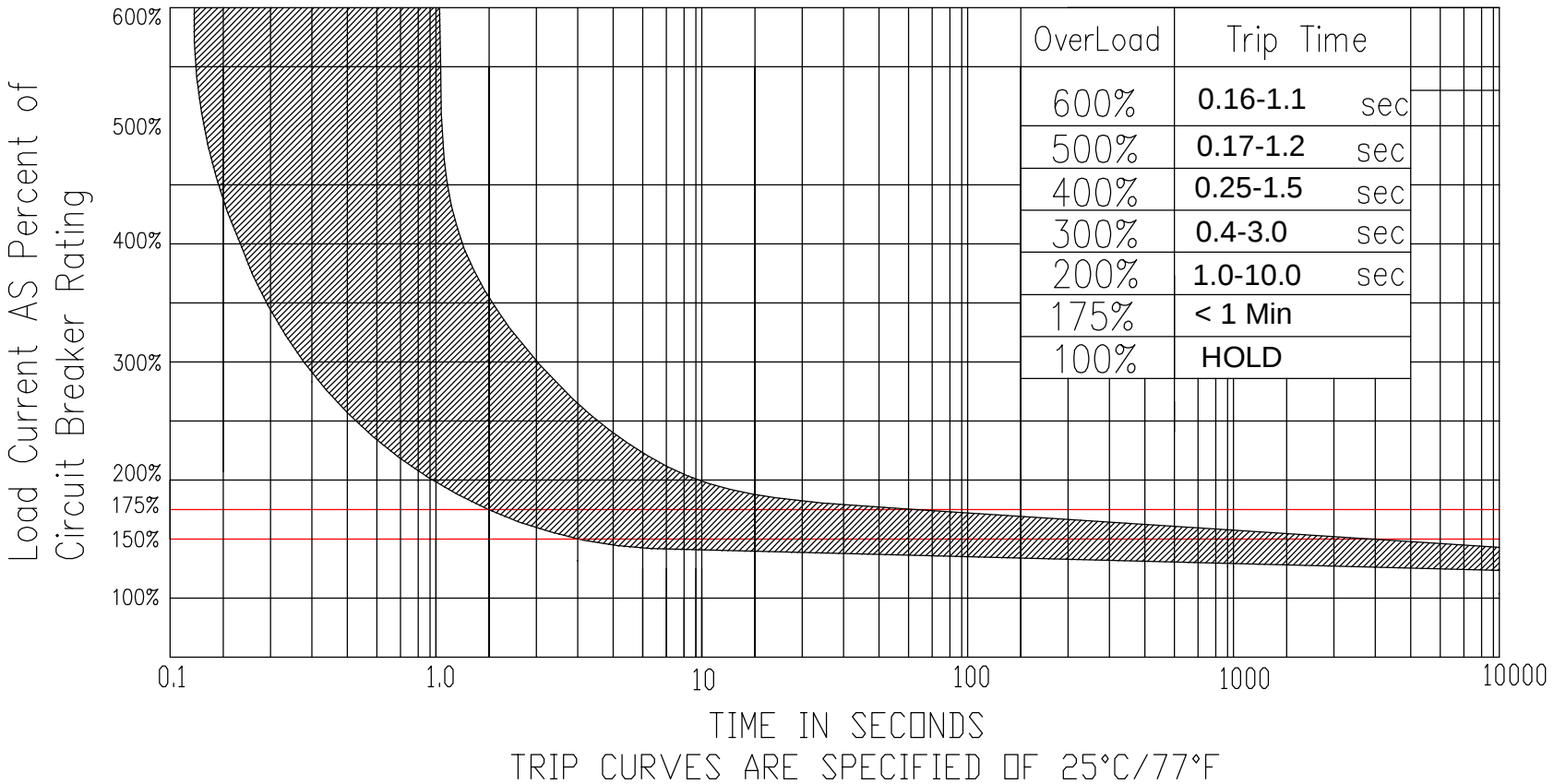
647 NO.11-6 HsiMei,TameiTusuen,Tsutang Hsiang,YunLin Hsien,Taiwan R.O.C.

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Trip Time Curves



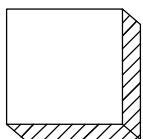
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3				DIMENSION	TOLERANCE							
2				XX.XX	±0.05	FILE NO	91 Series			MATERIAL	Trip Time Curves	
1				XX.X	±0.1							
				XX	±0.15							
				ANGLE	TOLERANCE							
				X	±1°							
NO	DESCRIPTION	APPROVED	DATE	X.X	±0.5°	KUOYUH W.L. Enterprise Co.,Ltd.				DRAWING NO	07071601	

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.

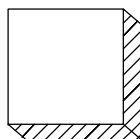
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				DIMENSION	TOLERANCE							
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				XX.X	±0.1							
2				XX	±0.15	NO	DESCRIPTION	APPROVED	DATE	DRAWING NO	07071602	
1				ANGLE	TOLERANCE							KUOYUH W.L. Enterprise Co.,Ltd.
				X	±1°							
				X.X	±0.5°							

Order Guide:

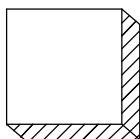
91-



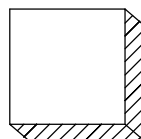
Type of Button



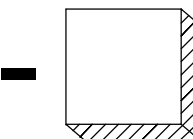
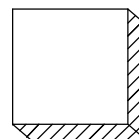
Fitting Plate



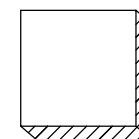
Color of Button



Rating Amp

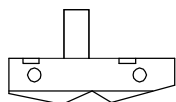
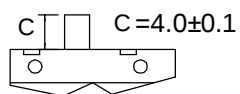
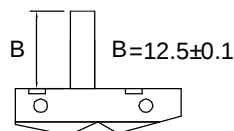
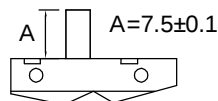


Terminal Type

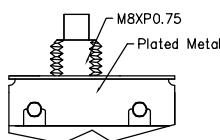


Terminal Finish

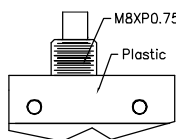
0= Plate with Tin
N= Plate with Nickel



N (No Fitting)



M (Metal Fitting)



P (Plastic Fitting)

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

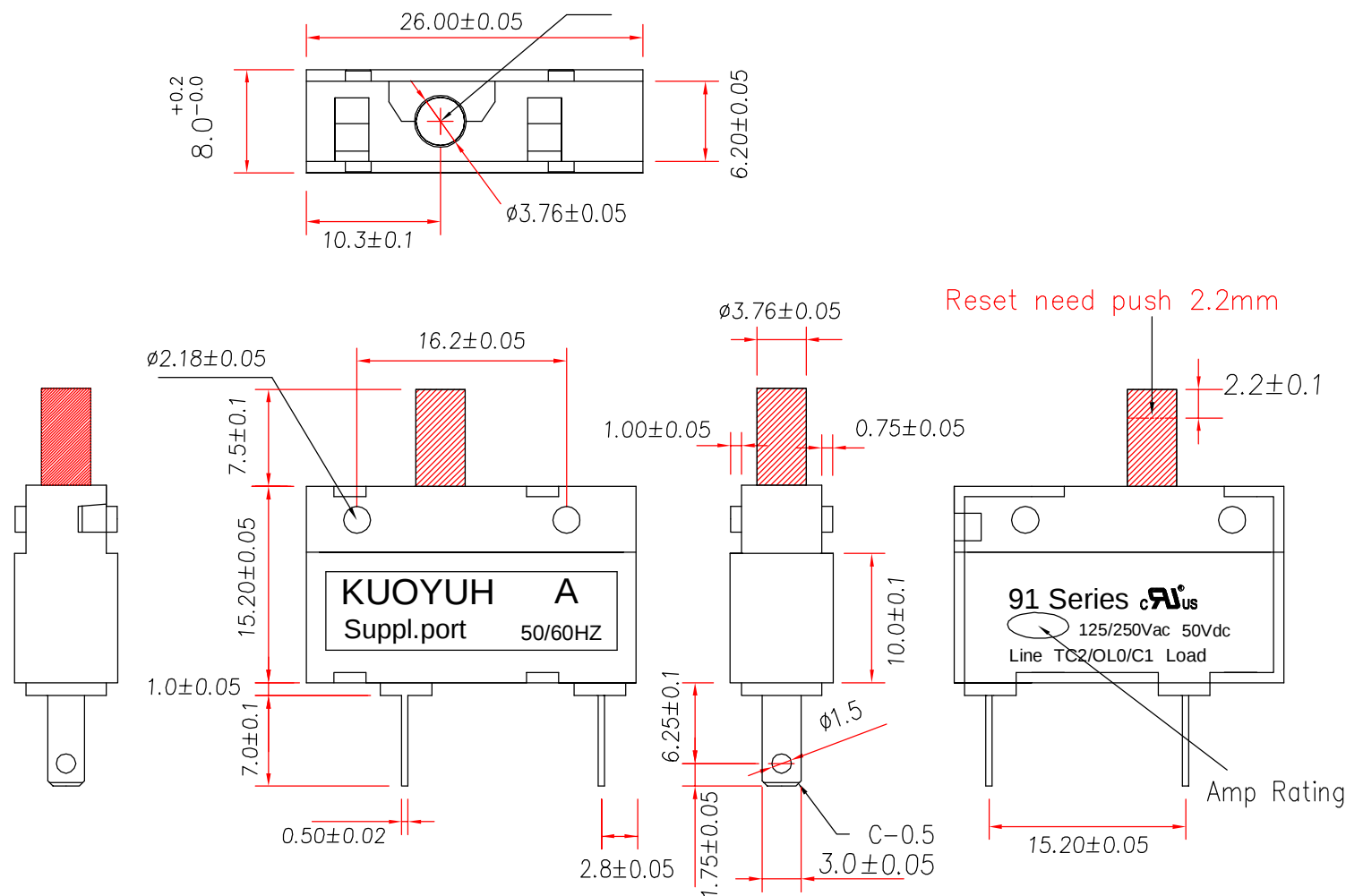
Standard Rating:

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	2	L

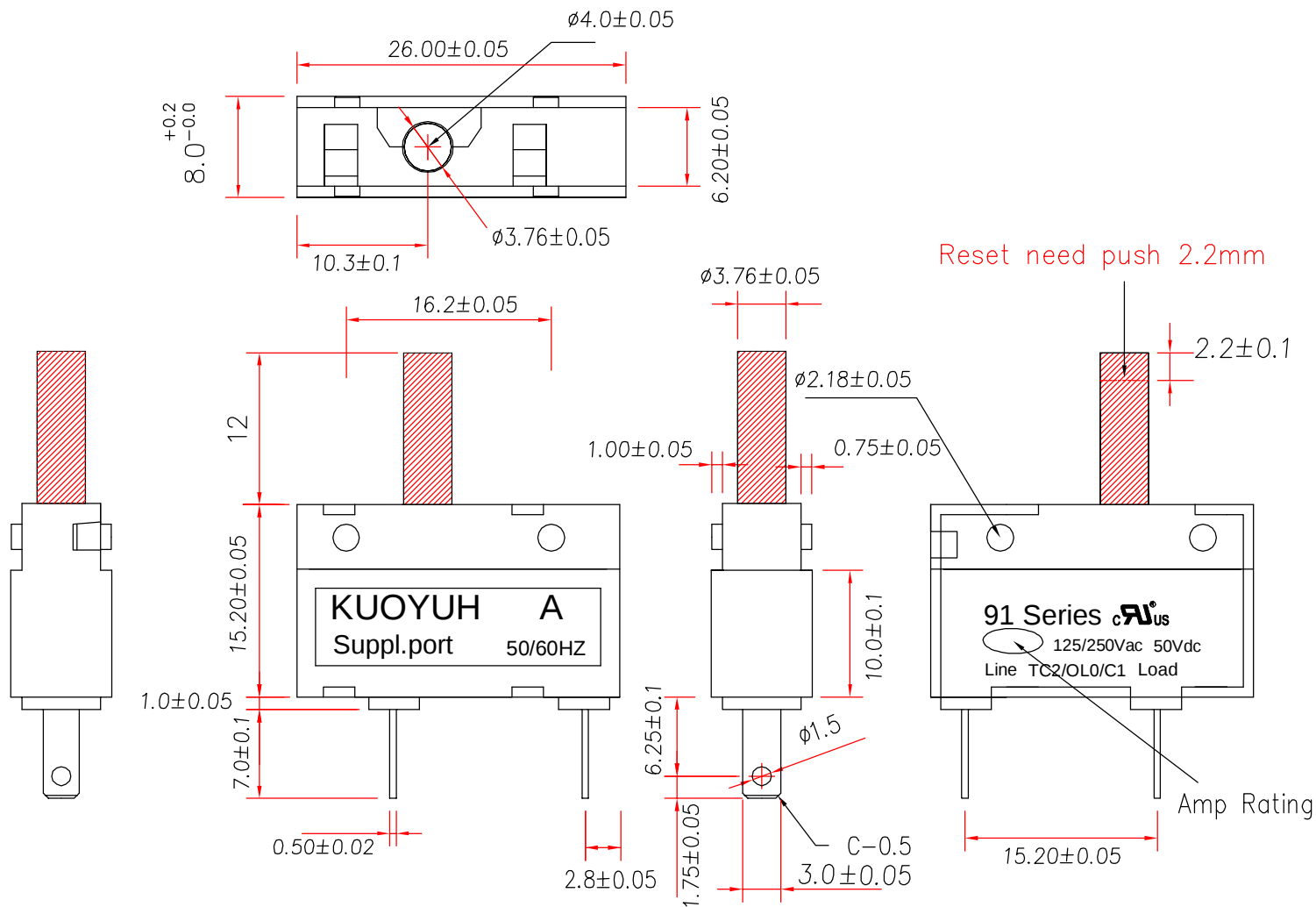
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				XX	±0.15	X	±1°	X.X	±0.5°	KUOYUH W.L. Enterprise Co.,Ltd.	DRAWING NO	
				ANGLE	TOLERANCE							
				X	±1°							
				X	±1°							
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				X	±1°							
				X	±1°							
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91-ANR-XX-00



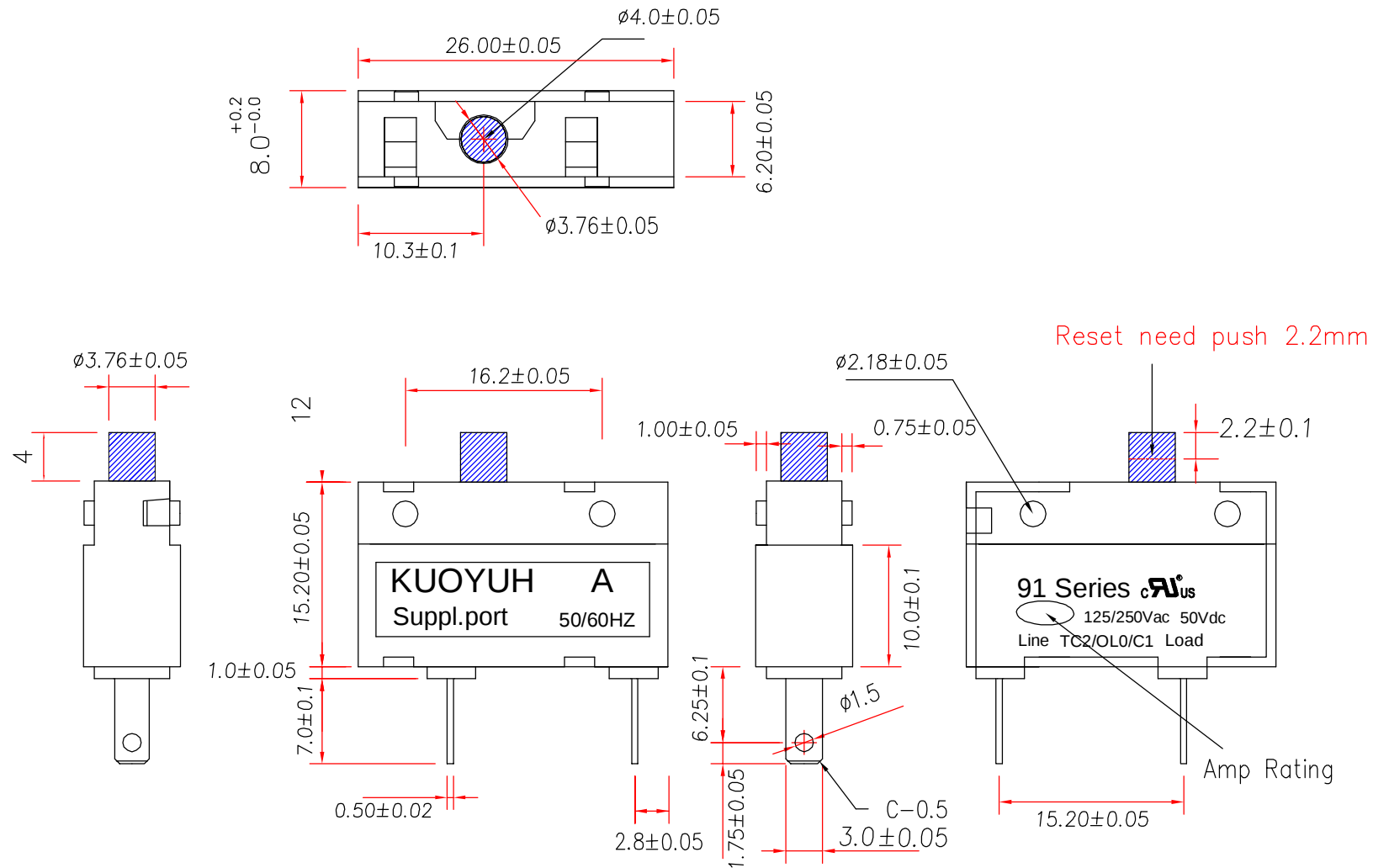
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				XX.X	±0.1							
2				XX	±0.15	FILE NO	91 Series Thermal Circuit Breaker			MATERIAL	91-ANR-XX-00	
1	Markng Change For UL	Hunter.H	950120	ANGLE	TOLERANCE	REV	C1	DATE	20070716	TITLE	91 Series	
				X	±1°							
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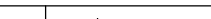
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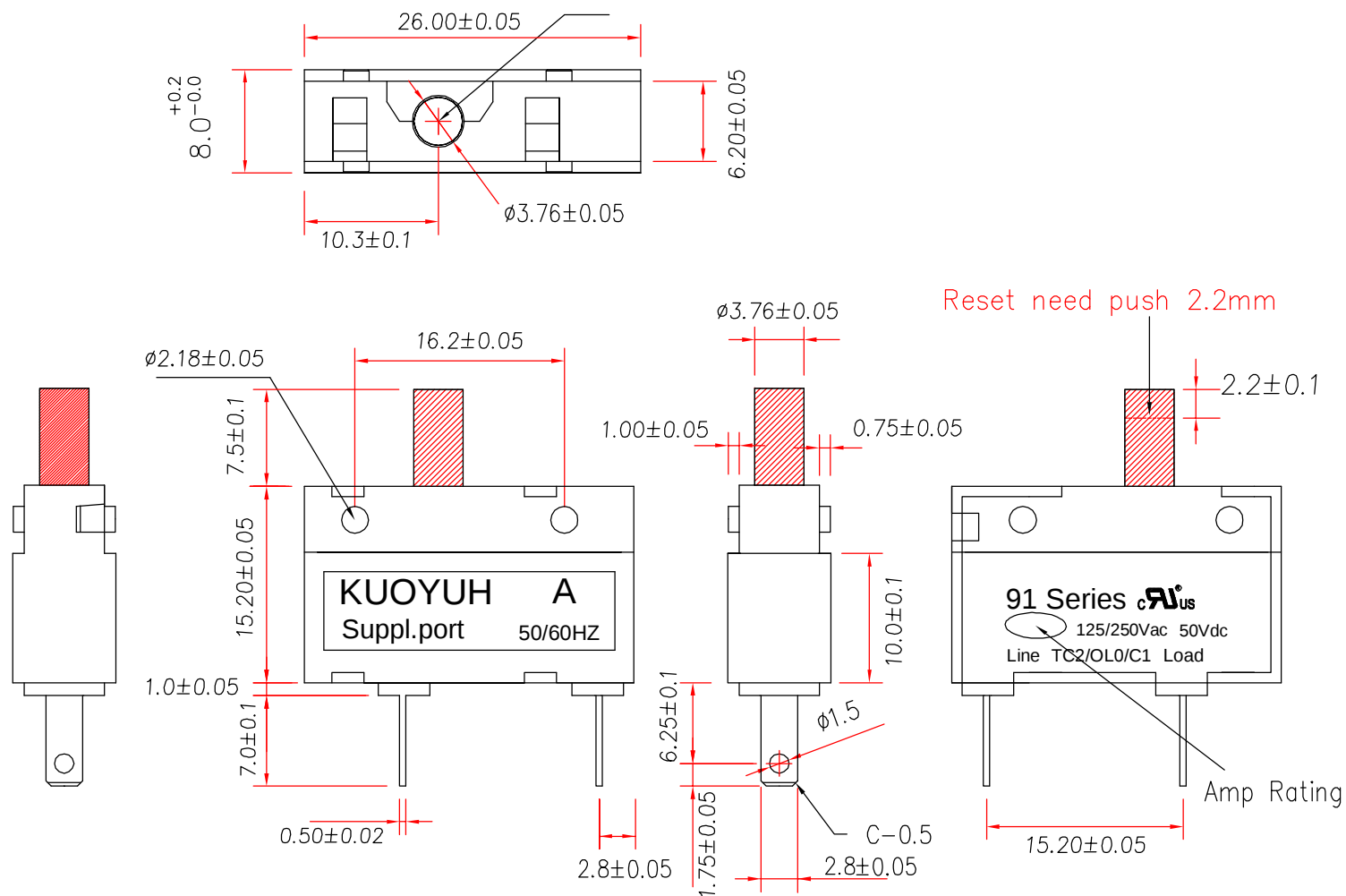
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3				DIMENSION	TOLERANCE							
2				XX.XX	±0.05	Hunter.H	Mark.C	John.L	Cewen.O	SCALE	1:1	
				XX.X	±0.1							
1				XX	±0.15	FILE NO	91 Series Thermal Circuit Breaker			MATERIAL	91-BNR-XX-00	
1	Markng Change For UL	Hunter.H	950120	ANGLE	TOLERANCE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

91-CNG-XX-00



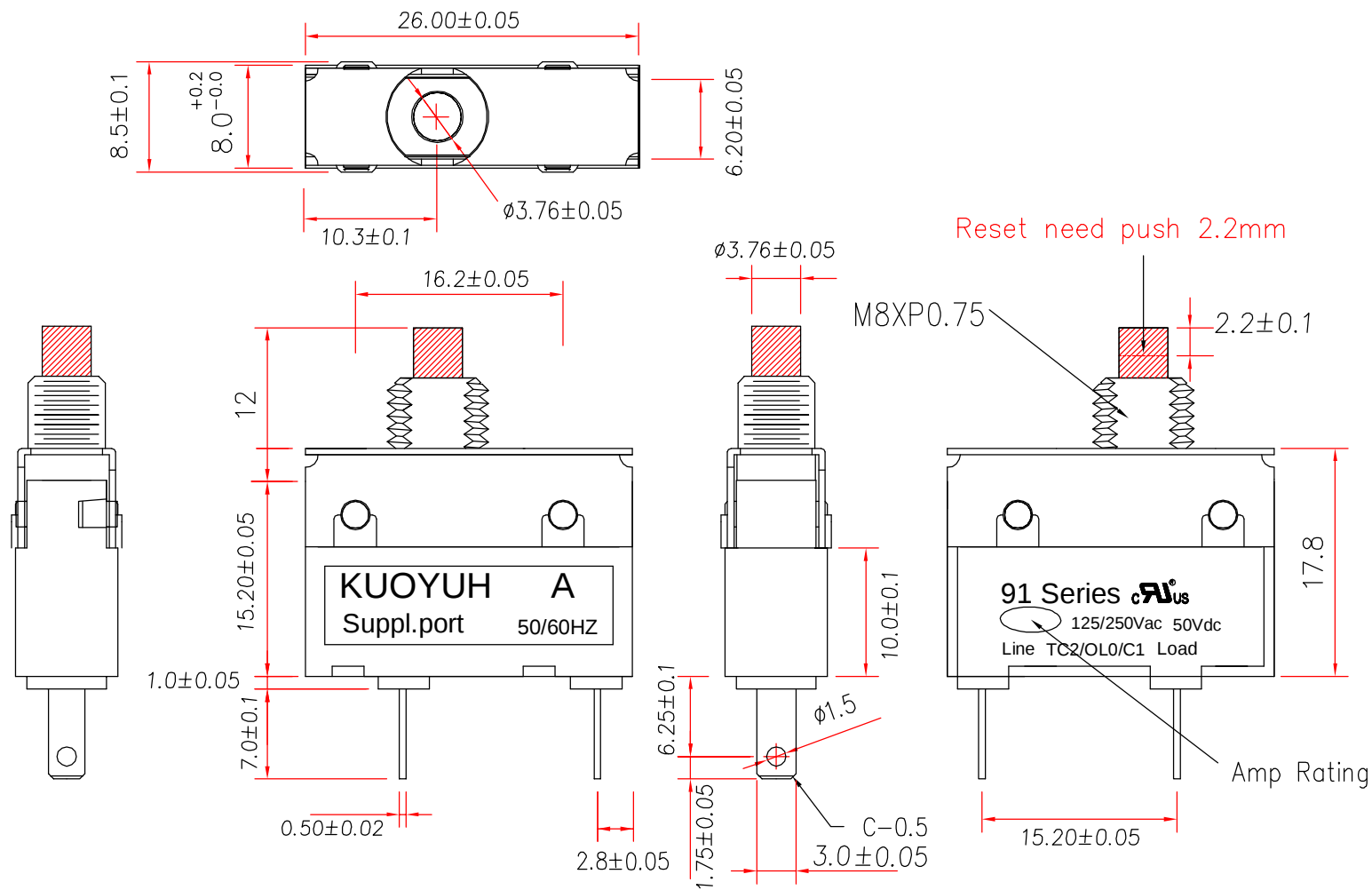
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				DIMENSION	TOLERANCE							
3				XX.XX	±0.05	Hunter.H	Mark.C	John.L	Cewen.O	SCALE	1:1	
2				XX.X	±0.1	FILE NO	91 Series Thermal Circuit Breaker			MATERIAL	91-CNG-XX-00	
				XX	±0.15							
1	Markng Change For UL	Hunter.H	950120	ANGLE	TOLERANCE	REV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

91-ANR-XX-2N



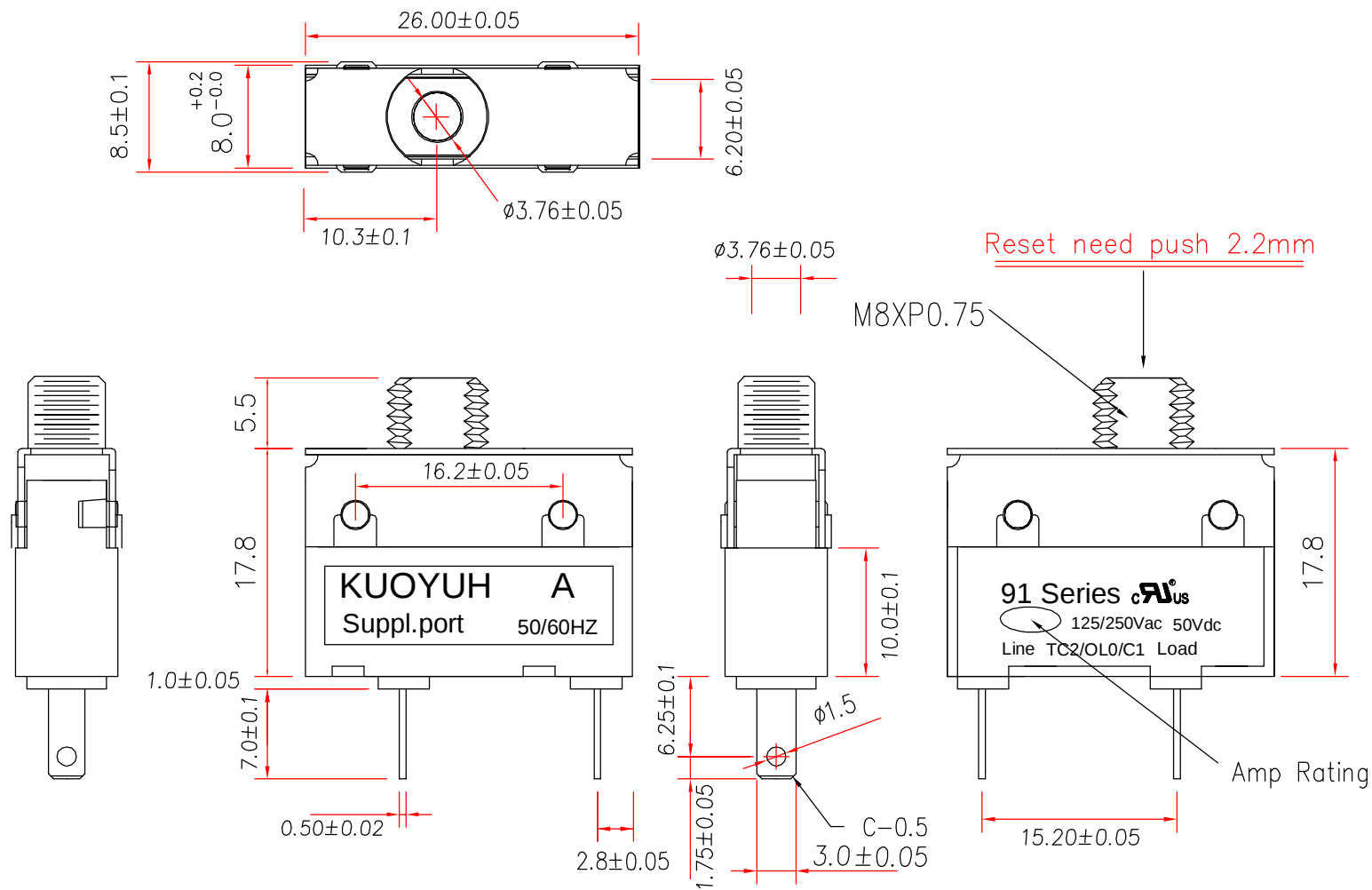
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3				DIMENSION	TOLERANCE								
				XX.XX	±0.05	Hunter.H	Mark.C	John.L	Cewen.O	SCALE	1:1		
2				XX.X	±0.1								
				XX	±0.15	FILE NO	91 Series Thermal Circuit Breaker			MATERIAL	91-ANR-XX-2N		
1	Markng Change For UL	Hunter.H	950120	ANGLE	TOLERANCE	REV	C1	DATE	20070716	TITLE	91 Series		
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				X.X	±0.5°								

91-BMR-XX-00



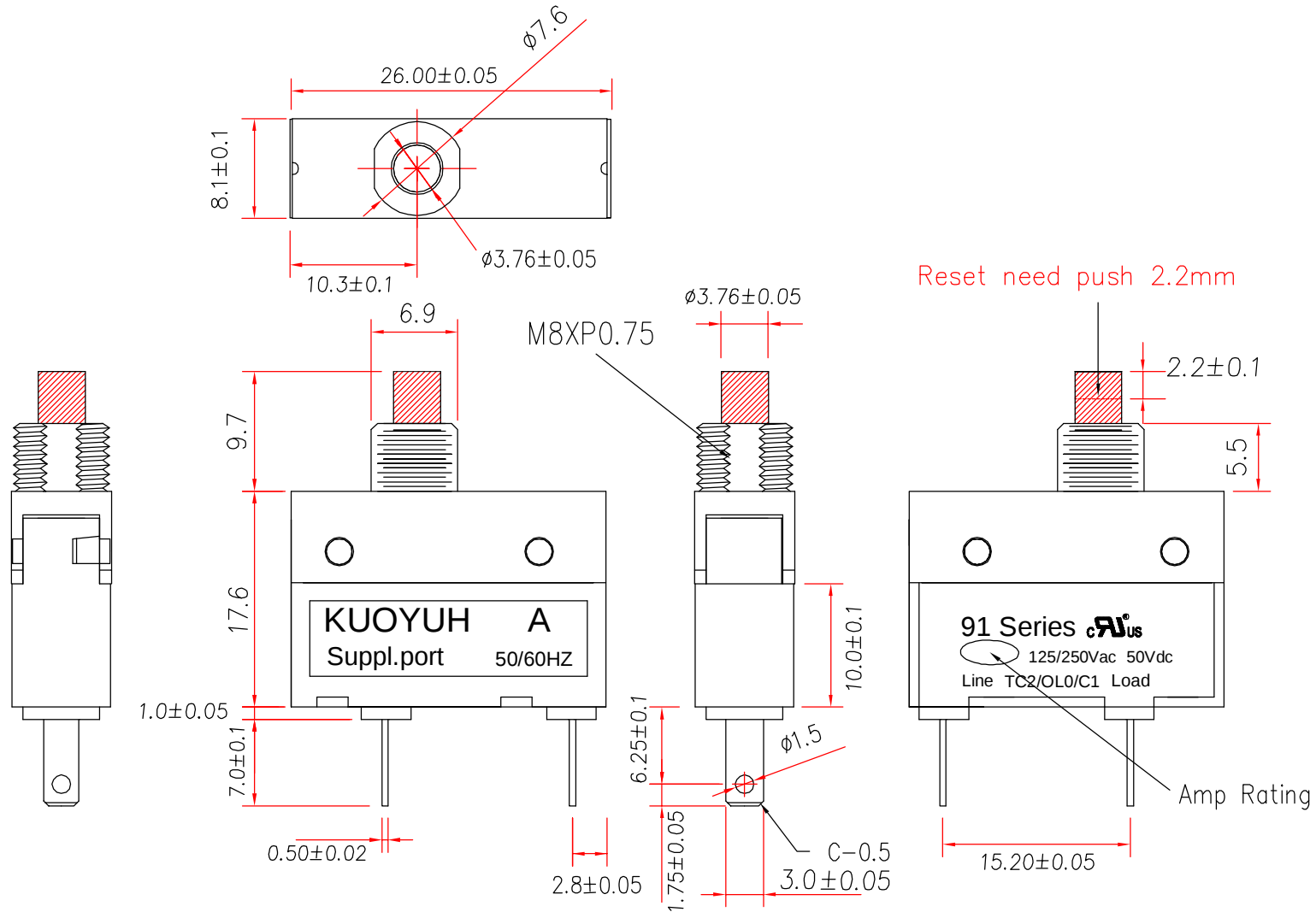
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3				XX.XX	±0.05	Hunter.H	Mark.C	John.L	Cewen.O	SCALE	1:1	
2				XX.X	±0.1	FILE NO	91 Series Thermal Circuit Breaker			MATERIAL	91-BMR-XX-00	
				XX	±0.15							
1	Markng Change For UL	Hunter.H	950120	ANGLE	TOLERANCE	REV	C1	DATE	20070716	TITLE	91 Series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

91-AMR-XX-00



4				TOLERANCE		APPROVED	CHECK	DESING	DRAWER	UNIT	mm	
				DIMENSION	TOLERANCE							
3				XX.XX	±0.05							
				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	
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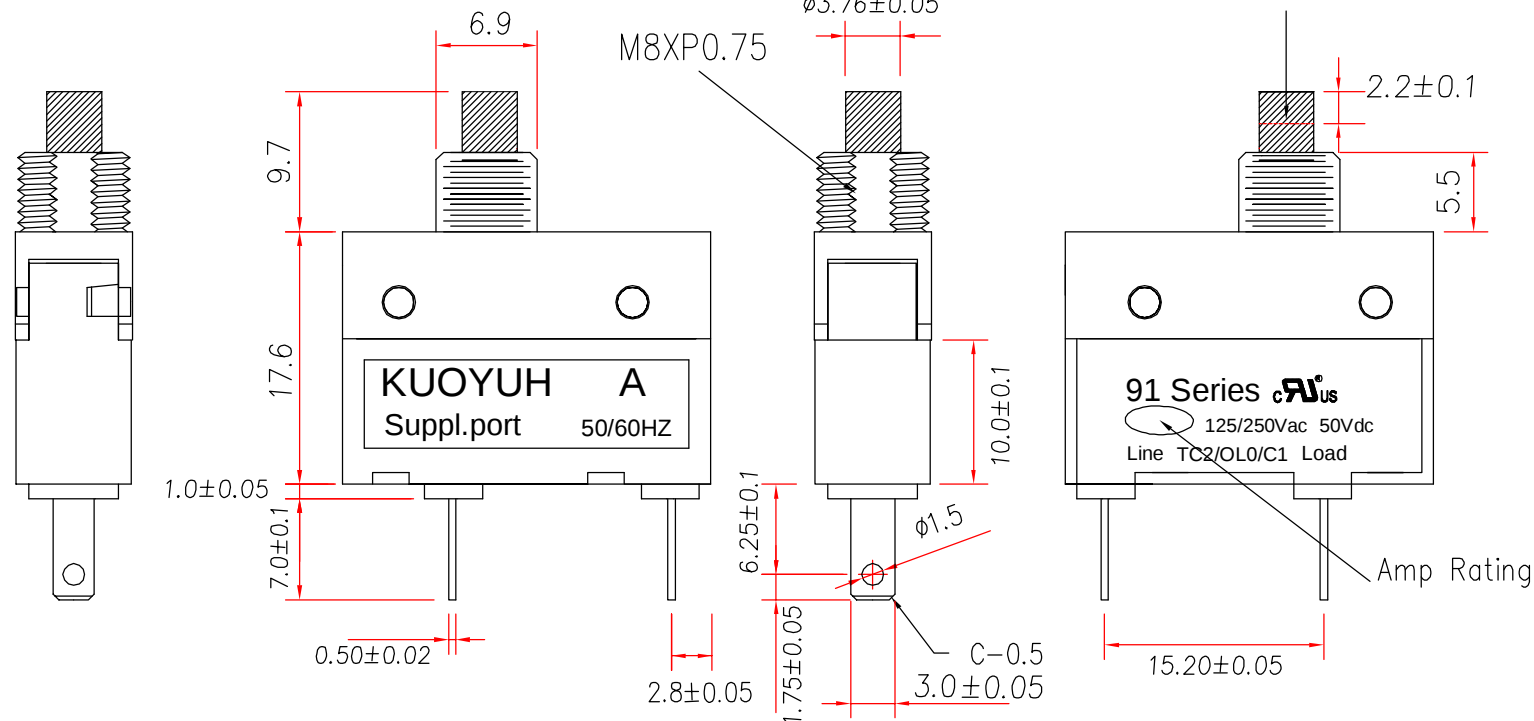
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2				XX.X	±0.1					REV	C1	
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				X	±1°							
				X.X	±0.5°							

Technical drawing of a mechanical part with dimensions:

- Overall length: 26.00 ± 0.05
- Overall width: 8.1 ± 0.1
- Distance from left edge to center of hole: 10.3 ± 0.1
- Hole diameter: $\phi 7.6$



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		
				XX.X	±0.1								
2				XX	±0.15	FILE NO	91 Series Thermal Circuit Breaker			MATERIAL	91-BPB-XX-00		
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NO	DESCRIPTION	APPROVED	DATE	X.X	±0.5°	KUOYUH W.L. Enterprise Co.,Ltd.			DRAWING NO	07071604-7			

UL Online Certifications Directory

QVNU2.E155159 Protectors, Supplementary - Component

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Protectors, Supplementary - Component

[See General Information for Protectors, Supplementary - Component](#)

KUOYUH W L ENTERPRISE CO LTD

E155159

11-6 CI-MAY

TA-MAY TUSUEN

CHYH TORNG HSIANG, YUNLIN HSIEN 647 TAIWAN

Supplementary protectors

Cat. No.	Type	UG	FW	MaxV	MaxAmps	TC	OL	SC
F66	OC	A	0	125 Vac	0.5 - 5	1	0	200 A,C1
F66	OC	A	0	12 Vdc	0.5 - 5	1	0	200 A,C1
F88	OC	A	0	125 Vac	13 -15	1	1	1.0 kA, C1
88AR	OC	A	0	125 Vac	15	1	0	1.0kA,C1
88AR	OC	A	0	50 Vdc	10	1	0	30 A,C1
88	OC	A	0	250 Vac	20	2	0	1.0kA @ 125 Vac/200 A @ 250 Vac, C1
88	OC	A	0	250 Vac	15	2	1	1.0k A @ 125 V ac/200 A @ 250 V ac, C1
98	OC	A	0	250 Vac	30	2	0	1.0kA @ 125 Vac/200 A @ 250 Vac, C1
91	OC	A	0	125/250 Vac	1-10	2	0	1.0kA,C1
91	OC	A	0	50 Vdc	1-10	2	0	200A,C1



Marking: Company name or trademark , catalog designation and electrical ratings.

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Protectors, Supplementary Certified for Canada - Component**[Page Bottom](#)**Protectors, Supplementary Certified for Canada - Component**[See General Information for Protectors, Supplementary Certified for Canada - Component](#)**KUOYUH W L ENTERPRISE CO LTD**

E155159

11-6 CI-MAY

TA-MAY TUSUEN

CHYH TORNG HSIANG, YUNLIN HSIEN 647 TAIWAN

Supplementary protectors

Cat. No.	Type	UG	FW	MaxV	MaxAmps	TC	OL	SC
88	OC	A	0	250 Vac	20	2	0	1.0kA @ 125 Vac/200 A @ 250 Vac, C1
88	OC	A	0	250 Vac	15	2	1	1.0k A @ 125 V ac/200 A @ 250 V ac, C1
98	OC	A	0	250 Vac	30	2	0	1.0kA @ 125 Vac/200 A @ 250 Vac, C1
91	OC	A	0	125/250 Vac	1-10	2	0	1.0kA,C1
91	OC	A	0	50 Vdc	1-10	2	0	200A,C1

Marking: Company name, catalog designation and the Recognized Component Mark for Canada, .[Last Updated](#) on 2006-06-21[Questions?](#)[Notice of Disclaimer](#)[Page Top](#)

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Zertifikat Nr. Certificate No.
R 72070120Blatt Page
0001Ihr Zeichen Client Reference
Hunter HuangUnser Zeichen Our Reference
-UM- 30780096 001Ausstellungsdatum
22.03.2007Date of Issue
(day/mo/yr)

Genehmigungsinhaber License Holder

KUOYUH W L ENTERPRISE CO LTD
11-6 CI-MAY, TA-MAY TUSUEN
647 CHYH TORNG HSIANG, YUNLIN HSIEN
Taiwan - R.O.C.

Fertigungsstätte Manufacturing Plant

KUOYUH W L ENTERPRISE CO LTD
11-6 CI-MAY, TA-MAY TUSUEN
647 CHYH TORNG HSIANG, YUNLIN HSIEN
Taiwan - R.O.C.

Prüfzeichen Test Mark

Geprüft nach Tested acc. to
EN 60934:2001Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)Lizenzentgelte - Einheit
License Fee - UnitShort Circuit Device Circuit Breaker, Secondary Protector

Model Designation: 1) 91L , 2) 91, 3) 88, 4) 98

7

Rated Voltage: 1), 2) AC 125/250V, 50/60Hz; DC 50V
3), 4) AC 125/250V, 50/60Hz; DC 32V
Rated Current: 1), 3) 20A, 2) 10A, 4) 30A
Protection Class: I

Special Remarks: Devices are not suitable for branch circuit protection, only supplementary but not circuit protectors.

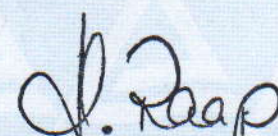
7



ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.

Zertifizierungsstelle

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