

# Printed-circuit board connector - MSTB 2,5/ 6-STZ-5,08 - 1776126

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Plug component, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, Color: green, contact surface: Tin


The figure shows a 10-position version of the product

## Why buy this product

- Plug-in direction parallel to the conductor axis
- Standard plug-in system for 320 V (III/2)
- Individual position coding by inserting coding profiles
- Well-known connection principle allows worldwide use
- Pull-out aid facilitates handling and allows the tensile force to be reduced at the contact point
- Allows connection of two conductors



## Key Commercial Data

Packing unit	50 STK
GTIN	 4 017918 038519
GTIN	4017918038519
Weight per Piece (excluding packing)	11.170 g
Custom tariff number	85366990
Country of origin	Germany

## Technical data

### Dimensions

Width [ w ]	30.48 mm
Pitch	5.08 mm
Dimension a	25.4 mm

### General

Range of articles	MSTB 2,5/..-STZ
Type of contact	Female connector

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## Technical data

### General

Number of positions	6
Connection method	Screw connection with tension sleeve
Insulating material group	I
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
Rated voltage (III/3)	250 V
Rated voltage (III/2)	320 V
Rated voltage (II/2)	630 V
Connection in acc. with standard	EN-VDE
Nominal current $I_N$	12 A
Nominal cross section	2.5 mm <sup>2</sup>
Maximum load current	12 A (with a 2.5 mm <sup>2</sup> conductor cross section)
Insulating material	PA
Flammability rating according to UL 94	V0
Internal cylindrical gage	A3
Stripping length	7 mm
Screw thread	M3
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

### Connection data

Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	2.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
2 conductors with same cross section, solid min.	0.2 mm <sup>2</sup>
2 conductors with same cross section, solid max.	1 mm <sup>2</sup>
2 conductors with same cross section, stranded min.	0.2 mm <sup>2</sup>
2 conductors with same cross section, stranded max.	1.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	1 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm <sup>2</sup>

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## Technical data

### Connection data

2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1.5 mm <sup>2</sup>
Minimum AWG according to UL/CUL	30
Maximum AWG according to UL/CUL	12

### Standards and Regulations

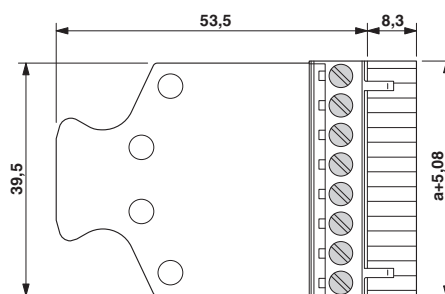
Connection in acc. with standard	EN-VDE
	CSA
Flammability rating according to UL 94	V0

### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

Dimensional drawing



The figure shows the dimensional drawing of the 5-position product version

## Classifications

### eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27260701
eCl@ss 6.0	27260704
eCl@ss 7.0	27440309
eCl@ss 8.0	27440309
eCl@ss 9.0	27440309

### ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002638

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## Classifications

### ETIM

ETIM 5.0	EC002638
ETIM 6.0	EC002638

### UNSPSC

UNSPSC 6.01	30211810
UNSPSC 7.0901	39121409
UNSPSC 11	39121409
UNSPSC 12.01	39121409
UNSPSC 13.2	39121409

## Approvals


### Approvals


#### Approvals

CSA / UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / IECCEB Scheme / EAC / cULus Recognized

#### Ex Approvals

### Approval details

CSA		13631
	B	D
mm <sup>2</sup> /AWG/kcmil	28-12	28-12
Nominal current I <sub>N</sub>	15 A	10 A
Nominal voltage U <sub>N</sub>	300 V	300 V

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 60425
	B	D	
mm <sup>2</sup> /AWG/kcmil	30-12	30-12	
Nominal current I <sub>N</sub>	12 A	10 A	
Nominal voltage U <sub>N</sub>	250 V	300 V	

# Printed-circuit board connector - MSTB 2,5/ 6-STZ-5,08 - 1776126

## Approvals

VDE Gutachten mit Fertigungsüberwachung		<a href="http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx">http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx</a>	40004701
mm <sup>2</sup> /AWG/kcmil	0.2-2.5		
Nominal current I <sub>N</sub>	12 A		
Nominal voltage U <sub>N</sub>	250 V		

cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 60425
		B	D
mm <sup>2</sup> /AWG/kcmil	30-12		30-12
Nominal current I <sub>N</sub>	12 A		10 A
Nominal voltage U <sub>N</sub>	250 V		300 V

IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	DE1-58978-B1B2
mm <sup>2</sup> /AWG/kcmil	0.2-2.5		
Nominal current I <sub>N</sub>	12 A		
Nominal voltage U <sub>N</sub>	250 V		

EAC		B.01742
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cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>
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## Accessories

Accessories

Bridge

Insertion bridge - EBP 2- 5 - 1733169



Insertion bridge, fully insulated, for connectors with 5.0 or 5.08 mm pitch, no. of positions: 2

# Printed-circuit board connector - MSTB 2,5/ 6-STZ-5,08 - 1776126

## Accessories

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### Coding element

Coding profile - CP-MSTB - 1734634



Coding profile, is inserted into the slot on the plug or inverted header, red insulating material

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### Labeled terminal marker

Marker card - SK 5,08/3,8:FORTL.ZAHLEN - 0804293



Marker card, Card, white, labeled, Horizontal: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - (99)100, Mounting type: adhesive, for terminal block width: 5.08 mm, Lettering field: 5.08 x 3.8 mm

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### Screwdriver tools

Screwdriver - SZS 0,6X3,5 - 1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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### Additional products

Base strip - MSTBW 2,5/ 6-G-5,08 - 1735840



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering

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Base strip - MSTBVA 2,5/ 6-G-5,08 - 1755778



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering

## Printed-circuit board connector - MSTB 2,5/ 6-STZ-5,08 - 1776126

### Accessories

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#### Base strip - MSTBA 2,5/ 6-G-5,08 - 1757284

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering



#### Base strip - MSTBV 2,5/ 6-G-5,08 - 1758050

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering



#### Base strip - MSTB 2,5/ 6-G-5,08 - 1759059

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering



#### Base strip - MDSTB 2,5/ 6-G1-5,08 - 1762415

Header, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering, In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!



#### Base strip - MDSTBV 2,5/ 6-G1-5,08 - 1762541

Header, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering, In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!



## Printed-circuit board connector - MSTB 2,5/ 6-STZ-5,08 - 1776126

### Accessories

#### Base strip - SMSTBA 2,5/ 6-G-5,08 - 1767410

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering



#### Base strip - SMSTB 2,5/ 6-G-5,08 - 1769502

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering



#### Base strip - MSTBA 2,5/ 6-G-5,08-LA - 1770986

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering



#### Base strip - MDSTBA 2,5/ 6-G-5,08 - 1842102

Header, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!



#### Base strip - MDSTBW 2,5/ 6-G-5,08 - 1842254

Header, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!





## Printed-circuit board connector - MSTB 2,5/ 6-STZ-5,08 - 1776126

### Accessories

#### Housing - MDSTB 2,5/ 6-G-5,08 - 1844977



Header, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering, Can be aligned! Mounting flange: Order No. 1736771, 1736768. In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

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#### Base strip - MDSTBVA 2,5/ 6-G-5,08 - 1845374



Header, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

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#### Base strip - MDSTBV 2,5/ 6-G-5,08 - 1845523



Header, nominal current: 10 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering, Can be aligned! Mounting flange: Order No. 1836477, 1836480. In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

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#### Base strip - MSTBO 2,5/ 6-GR-5,08 - 1847149



Header, nominal current: 8 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering

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#### Base strip - MSTBO 2,5/ 6-GL-5,08 - 1850479



Header, nominal current: 8 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering

## Printed-circuit board connector - MSTB 2,5/ 6-STZ-5,08 - 1776126

### Accessories

#### Base strip - EMSTBVA 2,5/ 6-G-5,08 - 1859551



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Press-in technology

#### Base strip - EMSTBA 2,5/ 6-G-5,08 - 1880342



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Press-in technology

#### Base strip - DFK-MSTBA 2,5/ 6-G-5,08 - 1898871



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering

#### Base strip - DFK-MSTBVA 2,5/ 6-G-5,08 - 1899171



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: green, contact surface: Tin, mounting: Wave soldering

#### Printed-circuit board connector - MSTBA 2,5/ 6-G-5,08 THT - 1902783



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

## Printed-circuit board connector - MSTB 2,5/ 6-STZ-5,08 - 1776126

### Accessories

Base strip - MSTBVA 2,5/ 6-G-5,08 THT - 1902851



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

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Printed-circuit board connector - MSTBA 2,5/ 6-G-5,08 THT-R56 - 1937279



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

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Base strip - MSTBVA 2,5/ 6-G-5,08 THT-R56 - 1940457



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

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Printed-circuit board connector - CC 2,5/ 6-G-5,08 P26THR - 1954511



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

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Printed-circuit board connector - CC 2,5/ 6-G-5,08 P26THRR56 - 1954621



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

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## Printed-circuit board connector - MSTB 2,5/ 6-STZ-5,08 - 1776126

### Accessories

#### Printed-circuit board connector - CCA 2,5/ 6-G-5,08 P26THR - 1954951

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"



#### Printed-circuit board connector - CCA 2,5/ 6-G-5,08 P26THRR56 - 1955073

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"



#### Printed-circuit board connector - CCV 2,5/ 6-G-5,08 P26THR - 1955426

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"



#### Printed-circuit board connector - CCV 2,5/ 6-G-5,08 P26THRR56 - 1955565

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"



#### Printed-circuit board connector - CCVA 2,5/ 6-G-5,08 P26THR - 1955895

Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"



## Printed-circuit board connector - MSTB 2,5/ 6-STZ-5,08 - 1776126

### Accessories

#### Printed-circuit board connector - CCVA 2,5/ 6-G-5,08 P26THRR56 - 1956001



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

#### Printed-circuit board connector - CCA 2,5/ 6-GL-5,08P26THR - 1959105



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, Two-in-one – Pin strips must always be made up of a left (L) and a right (R) segment. Please allow for the corresponding counterpart from the accessories to complete the THR pin strip.

#### Printed-circuit board connector - CCA 2,5/ 6-GR-5,08P26THR - 1959244



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, Two-in-one – Pin strips must always be made up of a left (L) and a right (R) segment. Please allow for the corresponding counterpart from the accessories to complete the THR pin strip.

#### Printed-circuit board connector - CCVA 2,5/ 6-GL-5,08P26THR - 1959943



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, Two-in-one – Pin strips must always be made up of a left (L) and a right (R) segment. Please allow for the corresponding counterpart from the accessories to complete the THR pin strip.

#### Printed-circuit board connector - CCVA 2,5/ 6-GL-5,08P26THRR56 - 1960042



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, Two-in-one – Pin strips must always be made up of a left (L) and a right (R) segment. Please allow for the corresponding counterpart from the accessories to complete the THR pin strip.

## Printed-circuit board connector - MSTB 2,5/ 6-STZ-5,08 - 1776126

### Accessories

Printed-circuit board connector - CCVA 2,5/ 6-GR-5,08P26THR - 1960123



Header, nominal current: 12 A, rated voltage (III/2): 320 V, number of positions: 6, pitch: 5.08 mm, Color: black, contact surface: Tin, mounting: THR soldering, Two-in-one – Pin strips must always be made up of a left (L) and a right (R) segment. Please allow for the corresponding counterpart from the accessories to complete the THR pin strip.

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