

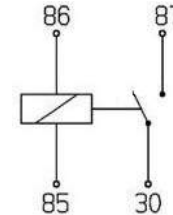
RELAY CATALOGUE

COMFORT ELECTRONIC
AA/MKG3

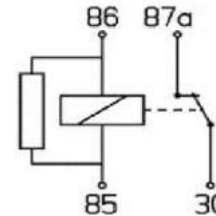
Relay product information

Relay operating modes

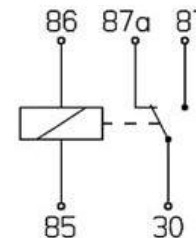
Make contact is a relay contact that is open when a relay is in idle position and closes when the relay moves to the operating position.



Break contact is a relay contact that is closed when a relay is in idle position and opens when the relay moves to the operating position.



Change over contact (transfer contact) is a set of contacts with three electrically isolated connections, consisting of a make contact and a break contact. When the switching position changes, the previously closed contact opens first and the previously open contact then closes.



Parameter explanation

Relay applications

This catalog contains the technical specifications that a design engineer needs to select the appropriate relay to meet his requirements. Bosch d.c. relays were originally designed for automotive applications. For all other applications, particularly those with differing requirements, loads or ambient conditions, we recommend prior technical consultation.

Bosch d.c. relays can withstand extreme conditions. They meet the following requirements:

- High-power switching
- Function over a wide temperature range
- Excellent vibration and impact resistance
- Long service life and good climatic resistance

Bosch d.c. relays are used for switching electrical equipment that has a high power or is sensitive to voltage losses. Relays relieve the burden on control switches and provide low voltage drops with economical wire cross-sections. In addition, relays make it easy to set up interlock circuits.

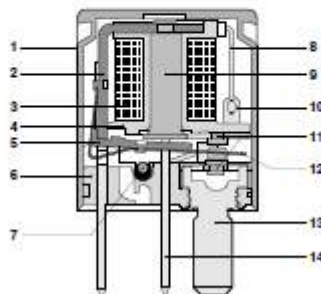
Mini and micro relays are ideal for use where space is at a premium.

Multifunction connectors allow easy assembly and extremely low fault rates on pre-tested wiring harnesses – particularly for OEMs. The same applies to servicing. The following mini and micro relay designs are available:

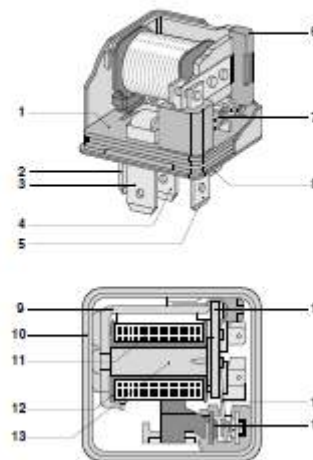
- Relays without mounting bracket, easy to plug into screw-on combination receptacle housings
- Relays with mounting bracket for connection to five-pole receptacle housing

Power relays allow a rated switching current of more than 50 A. They are suitable for switching motors, starters and other devices.

Micro relay: 1 Housing 2 Solenoid bracket and terminal 3 Coil 4 Bobbin 5 Armature 6 Base plate 7 Damping resistor or diode 8 Connecting wire 9 Core 10 Terminal 1/2 11 Contact 12 Spring 13 Terminal 4 14 Terminal 5



Mini relay: 1 Base plate 2 Terminal 86 3 Terminal 87 4 Terminal 87a 5 Terminal 85 6 Clamping piece 7 Coils connecting bracket 8 Terminal 30 9 Solenoid bracket 10 Housing 11 Coil 12 Bobbin 13 Core 14 Armature 15 Spring 16 Contact



Terms and definitions

Characteristic quantities and terms

Terms (where standardized, based on DIN 41 215)

Various characteristic quantities and their values allow an appropriate relay to be selected to perform a specific task. Each relay type must meet specific requirements at the specified characteristic values during its service life.

Response voltage Is the minimum excitation voltage that causes a relay to respond, taking into account the ambient temperature and self-heating.

Response time Is the time from closure of the feed circuit until the first closure of a make contact or the first opening of a break contact.

Operating voltage Is the value of the excitation voltage, at which the relay has the characteristic data required for operation.

Excitation voltage Is the electrical voltage that permits the electric current that flows through the excitation winding and causes excitation. Connection is via terminals 1 and 2 and terminals 85 and 86.

Rated value Is the value of a variable (e.g. voltage, current, resistance) for which a relay, its parts and its properties are designed or after which they are named.

Correction factor

Characteristic data on the excitation side relate to an ambient temperature of +20°C. If the ambient temperature is different, the winding resistance and the response and release voltages can be converted using a correction factor K:

$$K = [1 + \alpha(t_a - 20^\circ\text{C})]$$

t_a = Actual ambient or coil temperature

α = 0.004 K⁻¹ (Average temperature coefficient for copper)

Bounce time Is the time from the first to the last closure of a relay contact when the relay is shifting to a different position.

Release voltage Is the value of the maximum excitation voltage that causes a relay to release, taking into account the ambient temperature and self-heating.

Release time (release delay) Is the time from the opening of the feed circuit until the first opening of a make contact or the first closure of a break contact.

Switching voltage Is the voltage that is present between the contacts with an open circuit, when the transient effects have subsided.

Voltage drop Is the voltage at the relay connections for a closed relay contact, measured at a defined current.

Total resistance of the feed circuit Is the electrical resistance between the connecting terminals 1 and 2 and terminals 85 and 86.

Protection and operating modes

Protection types and operating modes

Switching operations

Response is an operation in which a relay moves from its idle position to its operating position.

Opening is an operation that breaks the electrical contact.

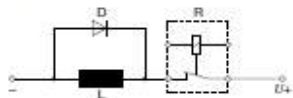
Release is an operation in which a relay moves from its operating position to its idle position.

Operating cycle is one response and release of a relay.

Number of operations is the number of operating cycles.

Closing is an operation that results in contact making.

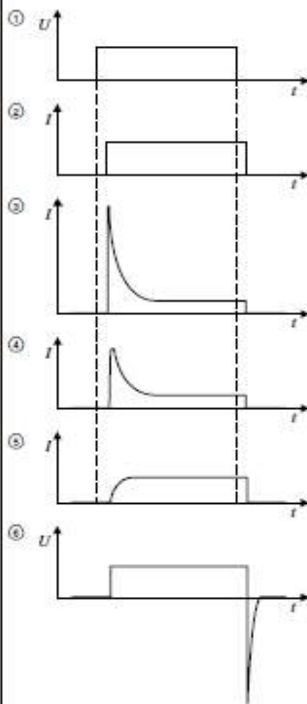
For inductive loads and motors, a protective circuit is often required, which can be implemented with a freewheeling diode parallel to the load (see circuit diagram).



L Inductive load **D** Freewheeling diode
U Supply voltage **R** Relay

Typical load curves

- ① Excitation voltage for relay coil
- ② Current curve with resistance load
- ③ Current curve with lamp load
- ④ Current curve with motor load
- ⑤ Current curve with inductive load
- ⑥ Voltage curve with inductive load



Service life

Mechanical service life specifies the number of operating cycles with current-free relay contacts for which the relay remains operational.

Contact service life specifies the number of operating cycles with electrical contact load for which the relay remains operational.

Switching contacts

Make contact is a relay contact that is open when a relay is in idle position and closes when the relay moves to the operating position.

Break contact is a relay contact that is closed when a relay is in idle position and opens when the relay moves to the operating position.

Double changeover contact (transfer contact) is a set of contacts with three electrically isolated connections, consisting of a make contact and a break contact. When the switching position changes, the previously closed contact opens first and the previously open contact then closes.

Products list (1)

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- | | | | |
|--|--|--|--|
| ▶ <u>0 331 802 100</u> | ▶ <u>0 332 019 110</u> | ▶ <u>0 332 209 138</u> | ▶ <u>0 333 009 004</u> |
| ▶ <u>0 332 002 150</u> | ▶ <u>0 332 019 150</u> | ▶ <u>0 332 209 150</u> | ▶ <u>0 333 009 005</u> |
| ▶ <u>0 332 002 155</u> | ▶ <u>0 332 019 151</u> | ▶ <u>0 332 209 151</u> | ▶ <u>0 333 009 009</u> |
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| ▶ <u>0 332 002 168</u> | ▶ <u>0 332 019 203</u> | ▶ <u>0 332 209 203</u> | ▶ <u>0 333 300 003</u> |
| ▶ <u>0 332 002 250</u> | ▶ <u>0 332 019 204</u> | ▶ <u>0 332 209 204</u> | ▶ <u>0 333 301 007</u> |
| ▶ <u>0 332 002 255</u> | ▶ <u>0 332 019 205</u> | ▶ <u>0 332 209 206</u> | ▶ <u>0 333 301 009</u> |
| ▶ <u>0 332 002 256</u> | ▶ <u>0 332 019 213</u> | ▶ <u>0 332 209 207</u> | ▶ <u>0 333 301 010</u> |
| ▶ <u>0 332 002 257</u> | ▶ <u>0 332 019 453</u> | ▶ <u>0 332 209 211</u> | ▶ <u>0 333 301 015</u> |
| ▶ <u>0 332 002 258</u> | ▶ <u>0 332 019 456</u> | ▶ <u>0 332 209 216</u> | ▶ <u>0 333 500 001</u> |
| ▶ <u>0 332 011 007</u> | ▶ <u>0 332 019 801</u> | ▶ <u>0 332 514 120</u> | |
| ▶ <u>0 332 014 112</u> | ▶ <u>0 332 109 011</u> | ▶ <u>0 332 514 121</u> | ▶ <u>0 335 200 007</u> |
| ▶ <u>0 332 014 125</u> | ▶ <u>0 332 201 107</u> | ▶ <u>0 332 515 009</u> | ▶ <u>0 335 200 038</u> |
| ▶ <u>0 332 015 001</u> | ▶ <u>0 332 204 125</u> | ▶ <u>0 332 515 012</u> | ▶ <u>0 335 200 041</u> |
| ▶ <u>0 332 015 002</u> | ▶ <u>0 332 204 202</u> | ▶ <u>0 332 515 022</u> | ▶ <u>0 335 200 160</u> |
| ▶ <u>0 332 015 006</u> | ▶ <u>0 332 204 203</u> | | ▶ <u>0 335 210 063</u> |
| ▶ <u>0 332 015 008</u> | ▶ <u>0 332 207 304</u> | ▶ <u>0 333 006 004</u> | ▶ <u>0 335 210 143</u> |
| ▶ <u>0 332 017 300</u> | ▶ <u>0 332 207 402</u> | ▶ <u>0 333 006 006</u> | ▶ <u>0 335 210 148</u> |
| ▶ <u>0 332 019 103</u> | ▶ <u>0 332 207 405</u> | ▶ <u>0 333 006 008</u> | ▶ <u>0 335 210 153</u> |
| ▶ <u>0 332 019 109</u> | ▶ <u>0 332 209 137</u> | ▶ <u>0 333 009 002</u> | ▶ <u>0 335 210 164</u> |

Products list (2)

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| ▶ 0 335 215 113 | ▶ 0 336 208 001 | ▶ 0 986 AH0 091 | ▶ 0 986 AH0 323 |
| ▶ 0 335 215 123 | ▶ 0 336 851 004 | ▶ 0 986 AH0 092 | ▶ 0 986 AH0 328 |
| ▶ 0 335 215 134 | ▶ 0 336 851 008 | ▶ 0 986 AH0 113 | ▶ 0 986 AH0 453 |
| ▶ 0 335 215 143 | ▶ 0 336 900 000 | ▶ 0 986 AH0 114 | ▶ 0 986 AH0 602 |
| ▶ 0 335 215 144 | | ▶ 0 986 AH0 115 | ▶ 0 986 AH0 603 |
| ▶ 0 335 215 145 | ▶ 0 986 332 002 | ▶ 0 986 AH0 116 | ▶ 0 986 AH0 605 |
| ▶ 0 335 215 154 | ▶ 0 986 332 022 | ▶ 0 986 AH0 135 | ▶ 0 986 AH0 611 |
| ▶ 0 335 215 155 | ▶ 0 986 332 030 | ▶ 0 986 AH0 150 | ▶ 0 986 AH0 612 |
| ▶ 0 335 215 164 | ▶ 0 986 332 040 | ▶ 0 986 AH0 151 | ▶ 0 986 AH0 613 |
| ▶ 0 335 322 001 | ▶ 0 986 332 041 | ▶ 0 986 AH0 204 | ▶ 0 986 AH0 614 |
| ▶ 0 335 323 001 | ▶ 0 986 332 053 | ▶ 0 986 AH0 206 | ▶ 0 986 AH0 615 |
| ▶ 0 335 323 003 | ▶ 0 986 332 071 | ▶ 0 986 AH0 237 | ▶ 0 986 AH0 617 |
| ▶ 0 335 330 801 | ▶ 0 986 332 072 | ▶ 0 986 AH0 250 | ▶ 0 986 AH0 622 |
| ▶ 0 335 330 802 | ▶ 0 986 332 073 | ▶ 0 986 AH0 251 | ▶ 0 986 AH0 625 |
| | ▶ 0 986 332 080 | ▶ 0 986 AH0 253 | ▶ 0 986 AH0 803 |
| ▶ 0 336 101 004 | ▶ 0 986 332 086 | ▶ 0 986 AH0 300 | ▶ 0 986 AH0 811 |
| ▶ 0 336 200 047 | ▶ 0 986 332 087 | ▶ 0 986 AH0 302 | |
| ▶ 0 336 200 049 | ▶ 0 986 332 091 | ▶ 0 986 AH0 304 | ▶ 3 334 485 007 |
| ▶ 0 336 200 051 | ▶ 0 986 335 058 | ▶ 0 986 AH0 305 | ▶ 3 334 485 008 |
| ▶ 0 336 202 001 | | ▶ 0 986 AH0 307 | ▶ 3 334 485 010 |
| ▶ 0 336 203 005 | ▶ 0 986 AH0 080 | ▶ 0 986 AH0 308 | ▶ 3 334 485 041 |
| ▶ 0 336 203 006 | ▶ 0 986 AH0 081 | ▶ 0 986 AH0 309 | ▶ 3 334 485 045 |
| ▶ 0 336 206 003 | ▶ 0 986 AH0 082 | ▶ 0 986 AH0 320 | ▶ 3 334 485 046 |
| ▶ 0 336 206 004 | ▶ 0 986 AH0 083 | ▶ 0 986 AH0 321 | ▶ 3 334 486 049 |

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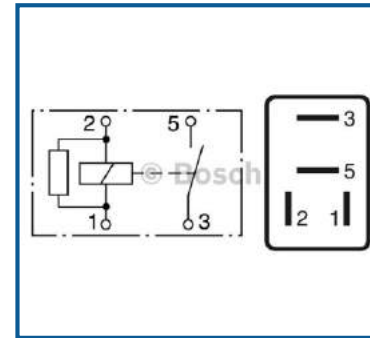
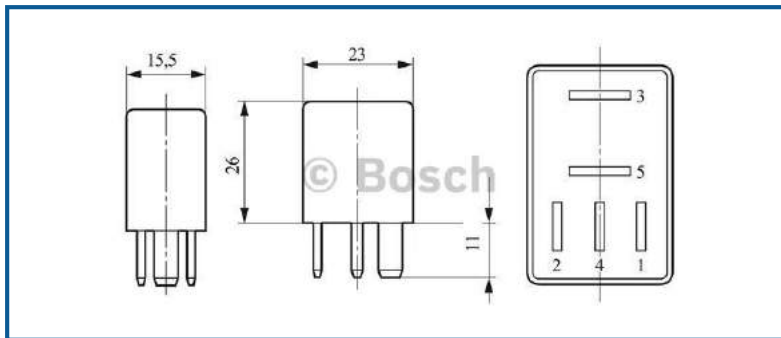
Overview

Micro Relays 12 V, 30 A

0 332 011 007

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	200.000	30 A	12 V	4



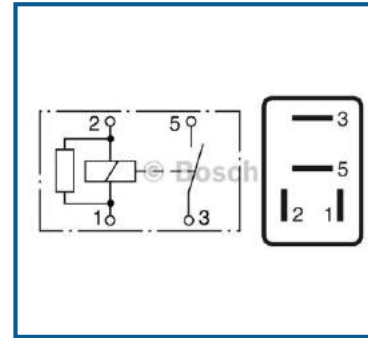
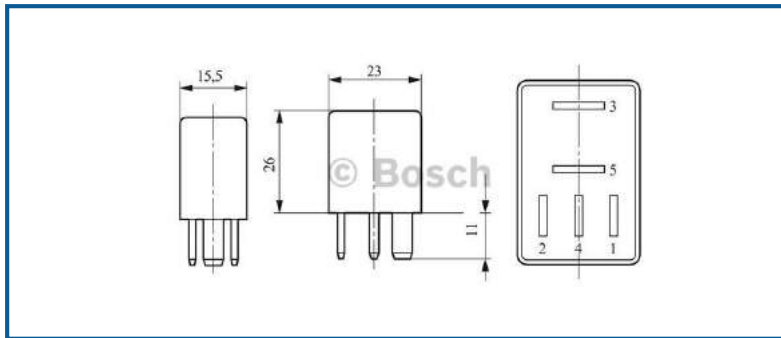
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Micro Relays 12 V, 20 A

0 332 017 300

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	250.000	20 A	12 V	4



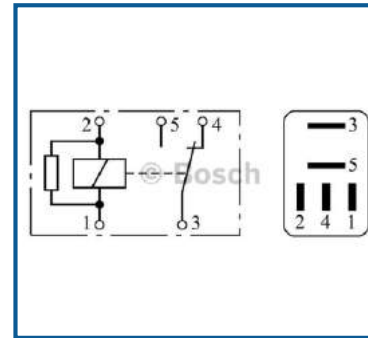
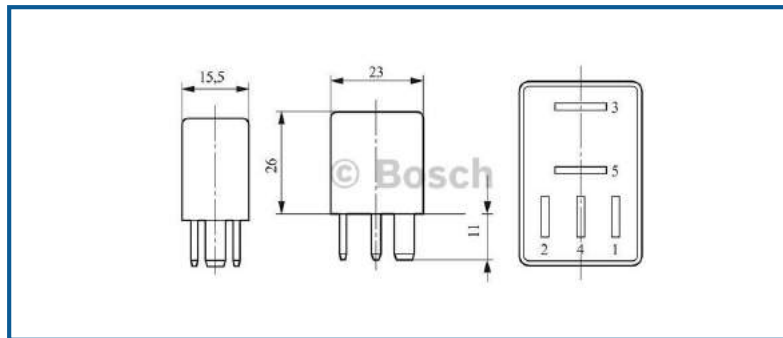
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Micro Relays 12 V, 30/10 A

0 332 201 107

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	200.000	30/10 A	12 V	5



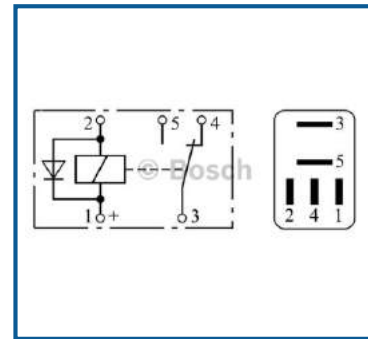
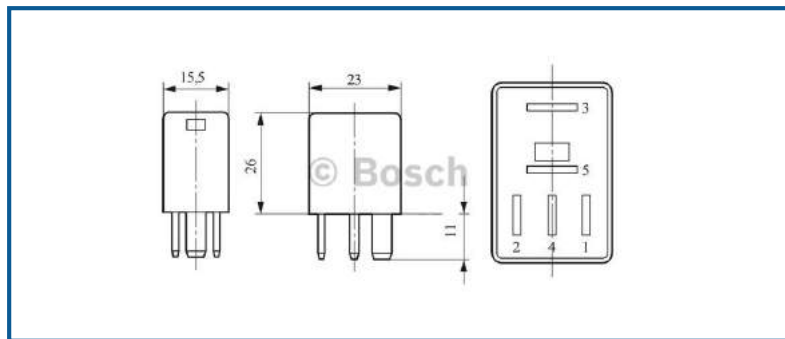
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Micro Relays 24 V, 10/5 A

0 332 207 402

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	✓	250.000	10/5 A	24 V	5



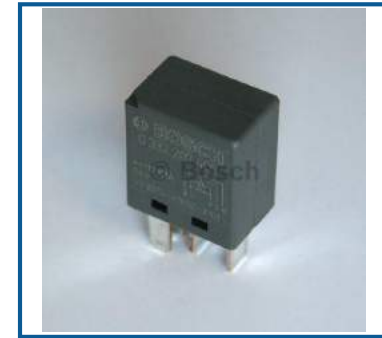
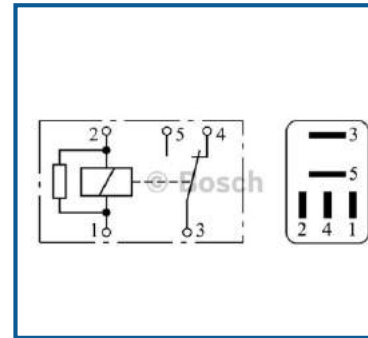
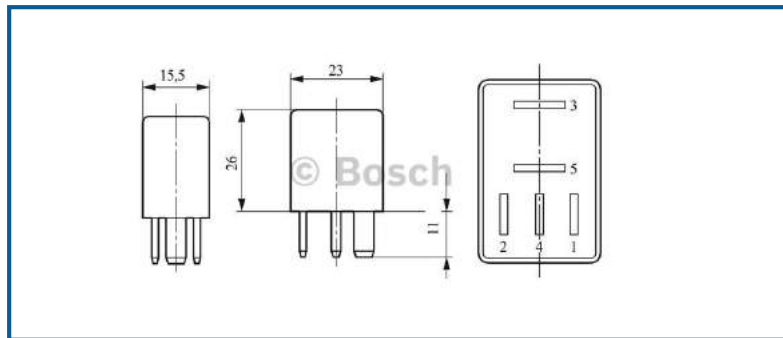
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Micro Relays 24 V, 10/5 A

0 332 207 405

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	250.000	10/5 A	24 V	5



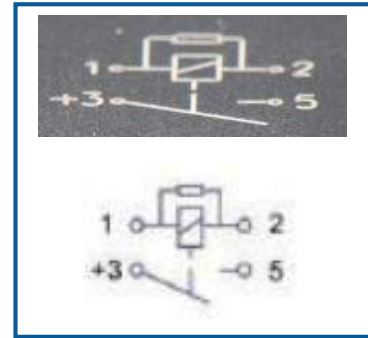
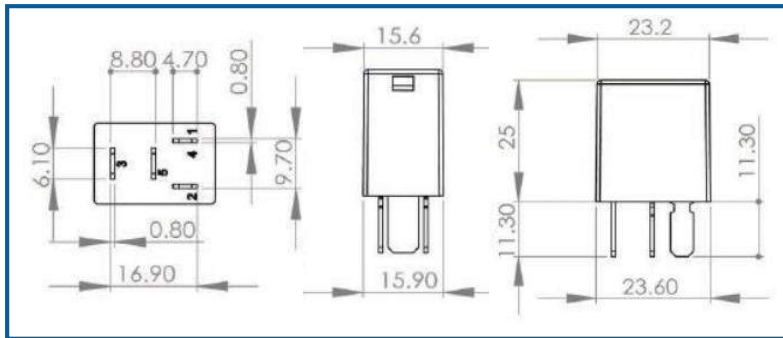
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Micro Relays 12 V, 20 A

0 986 AH0 300

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	20 A	12 V	4



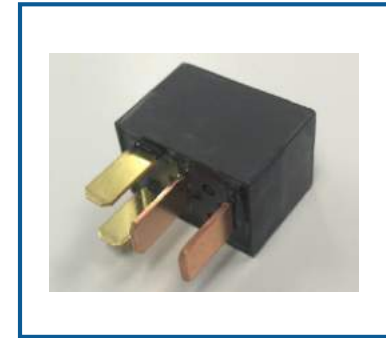
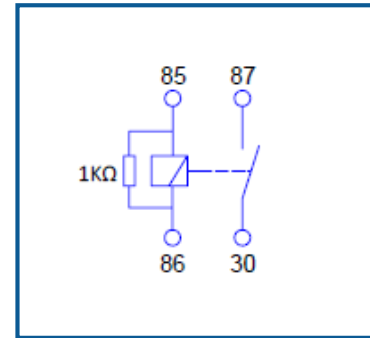
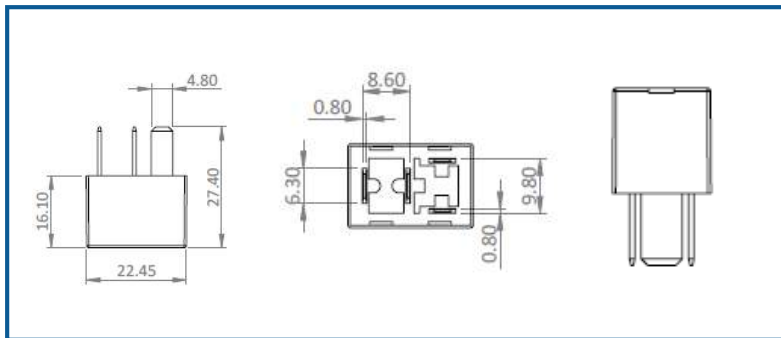
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Half Micro Relays 12 V, 20 A

0 986 AH0 090

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	20 A	12 V	4



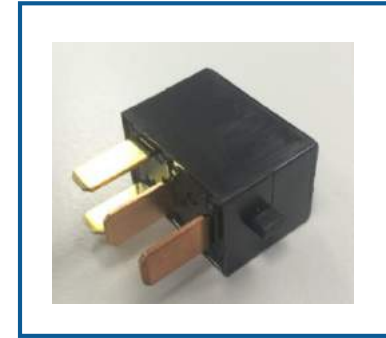
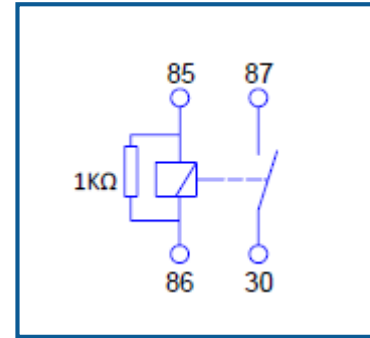
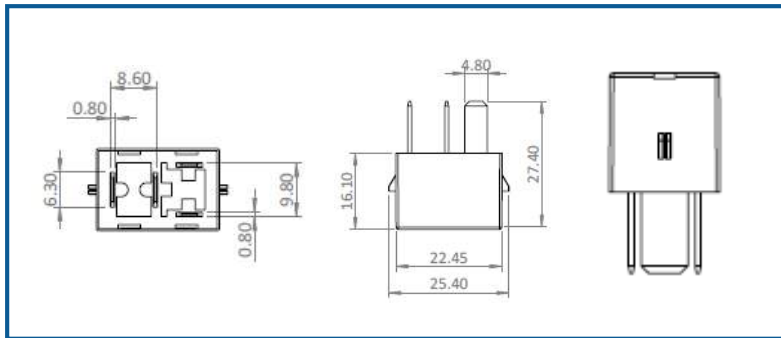
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Half Micro Relays 12 V, 20 A

0 986 AH0 091

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	20 A	12 V	4



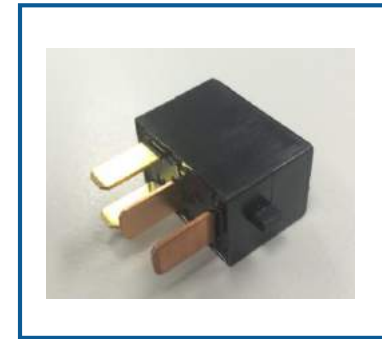
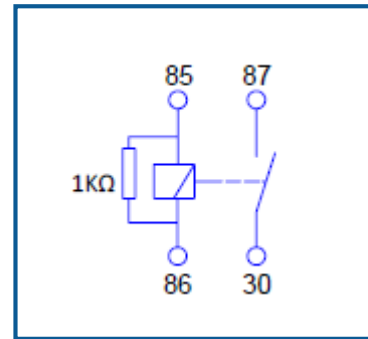
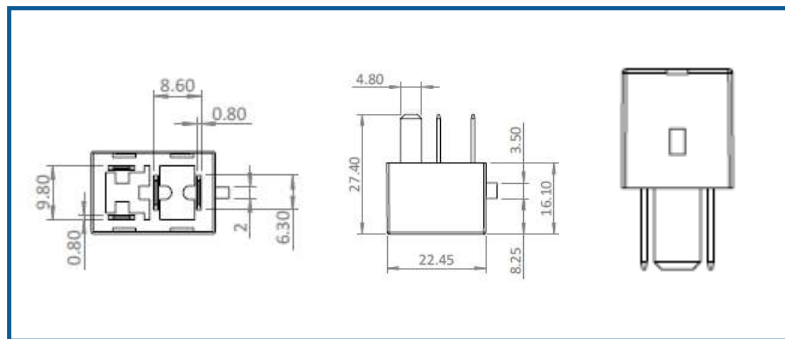
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Half Micro Relays 12 V, 20 A

0 986 AH0 092

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	20 A	12 V	4



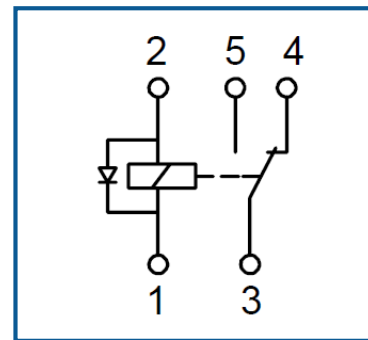
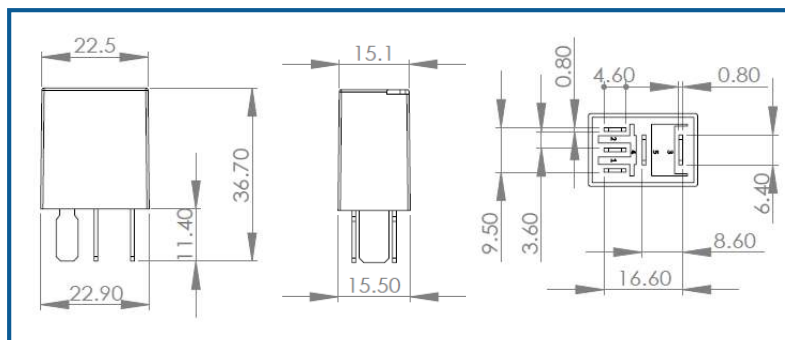
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Micro Relays 24 V, 10 A

0 986 AH0 302

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	✓	100.000	10 A	24 V	5



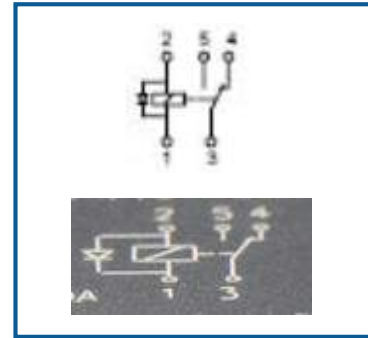
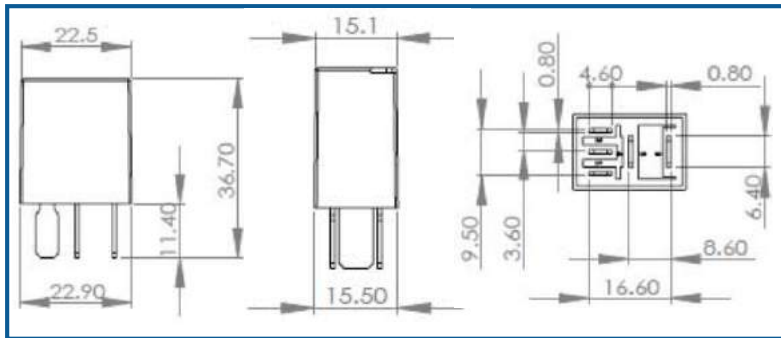
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Micro Relays 12 V, 20 A

0 986 AH0 304

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	✓	100.000	20 A	12 V	5



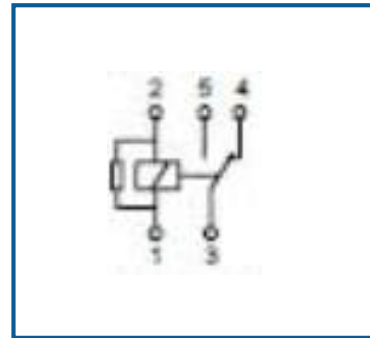
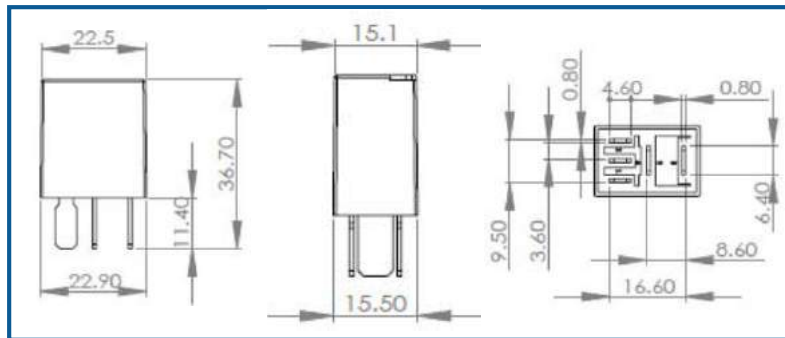
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Micro Relays 24 V, 10/5 A

0 986 AH0 305

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	10/5 A	24 V	5



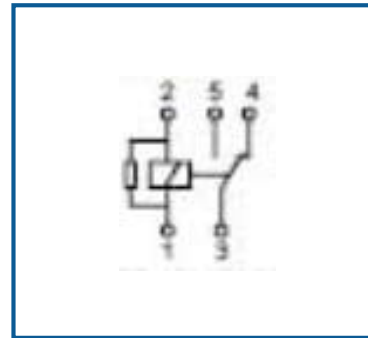
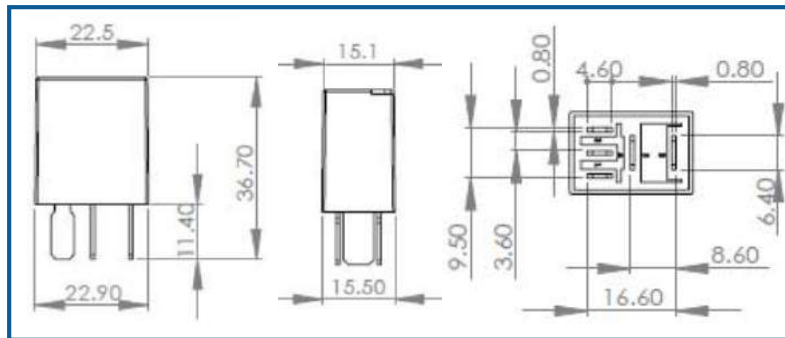
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Micro Relays 12 V, 30/10 A

0 986 AH0 307

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	30 A	12 V	5



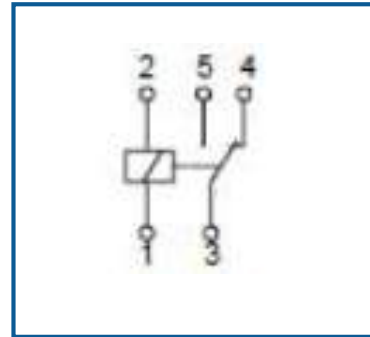
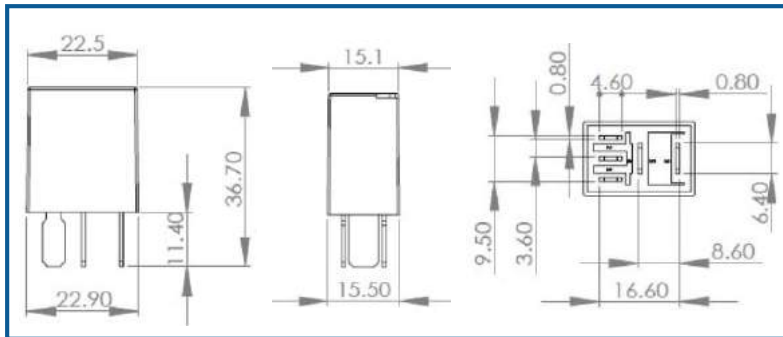
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Micro Relays 12 V, 30 A

0 986 AH0 308

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of pins
X	X	X	100.000	30 A	12 V	5



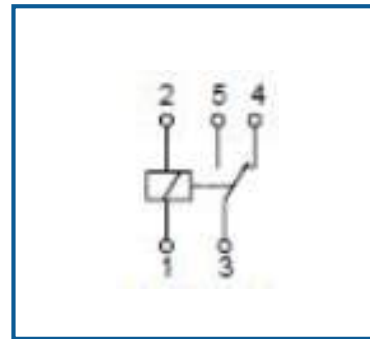
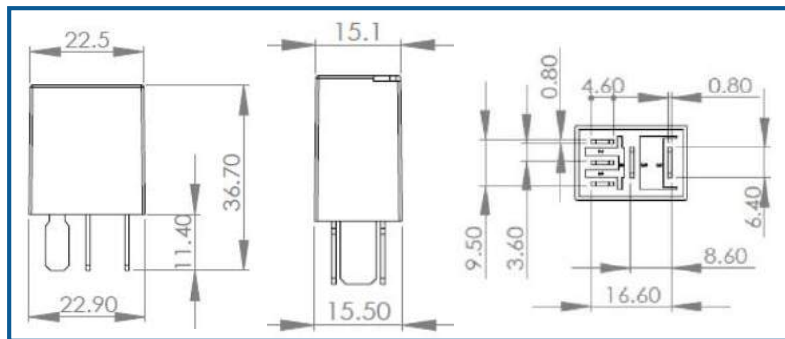
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Micro Relays 24 V, 10 A

0 986 AH0 309

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	X	100.000	10 A	24 V	5



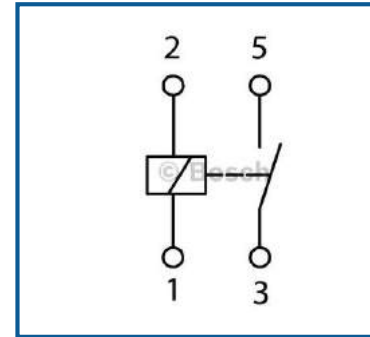
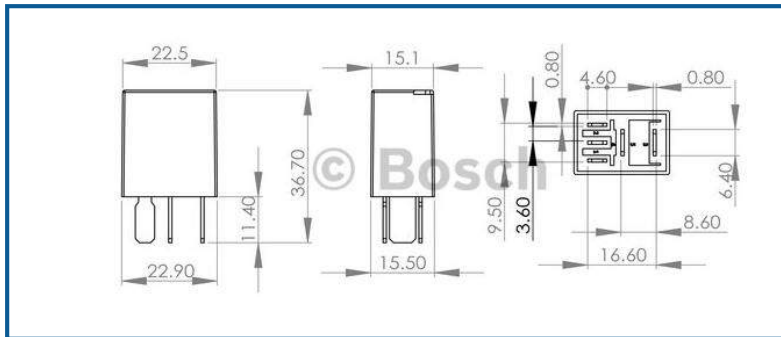
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Micro Relays 12 V, 20 A

0 986 AH0 320

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	X	100.000	20 A	12 V	4



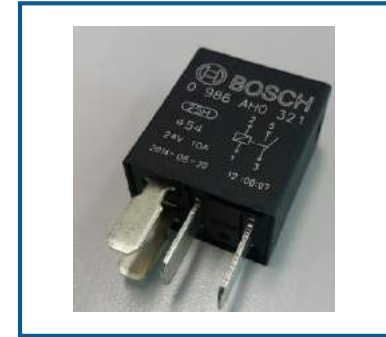
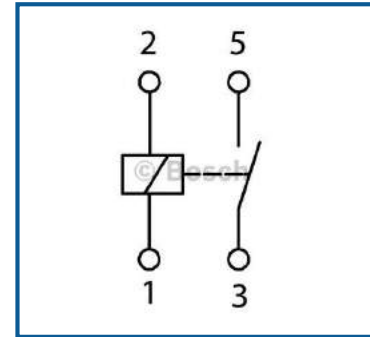
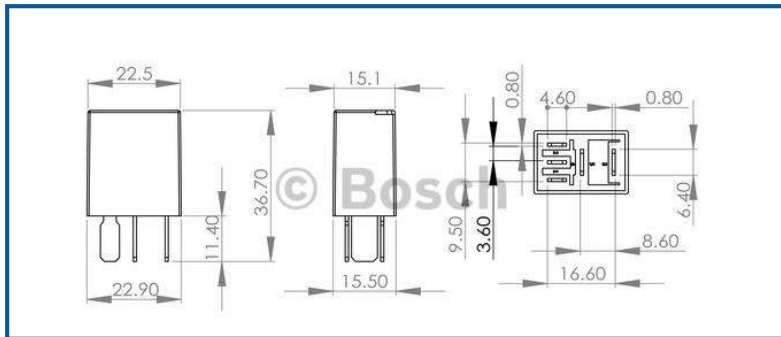
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Micro Relays 24 V, 10 A

0 986 AH0 321

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	X	100.000	10 A	24 V	4



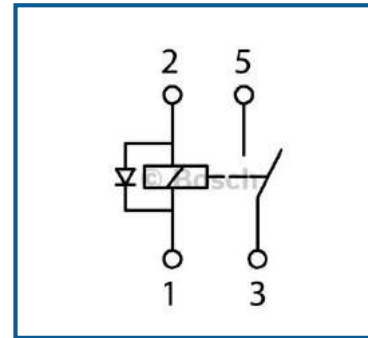
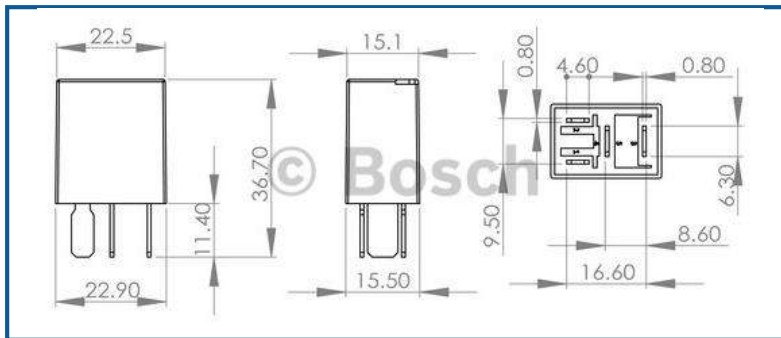
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Micro Relays 12 V, 10 A

0 986 AH0 322

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	✓	100.000	10 A	12 V	4



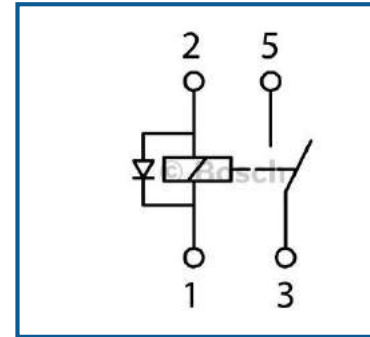
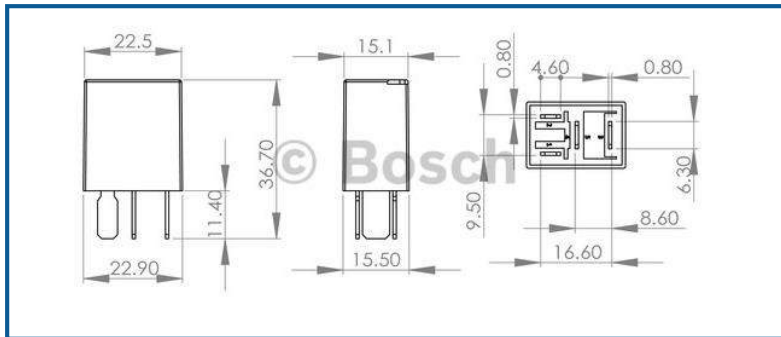
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Micro Relays 24 V, 10 A

0 986 AH0 323

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	✓	100.000	10 A	24 V	4



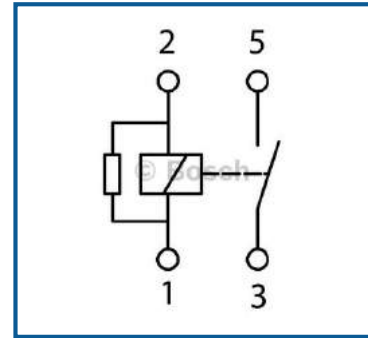
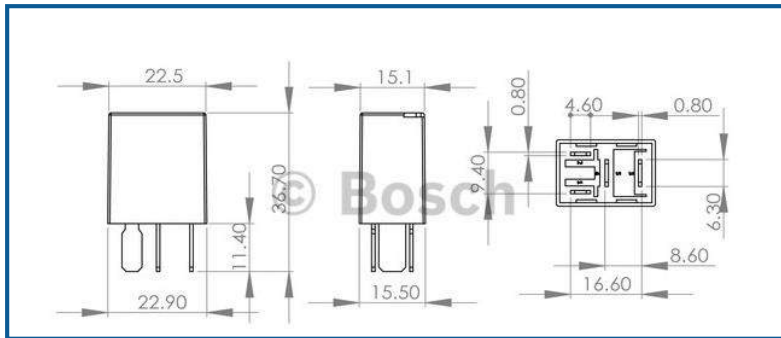
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Micro Relays 24 V, 10 A

0 986 AH0 328

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	10 A	24 V	4



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Mini Relays

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Overview

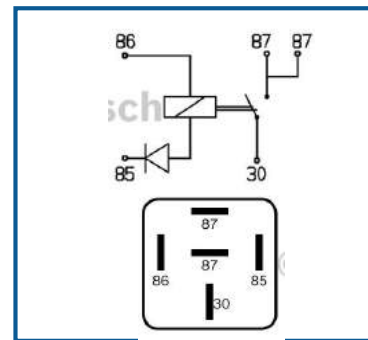
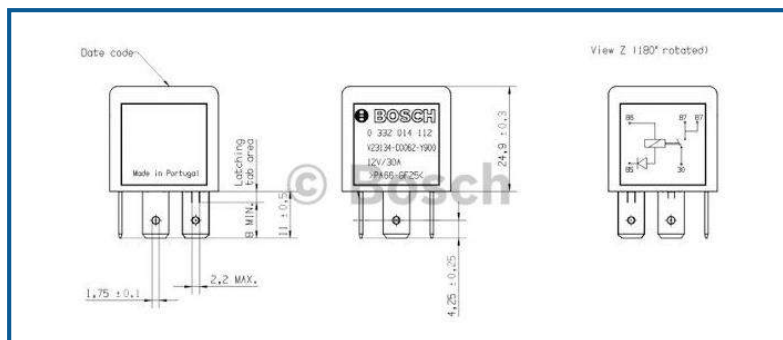
Mini Relays 12 V, 30 A

0 332 014 112

Change over	Normal close	Normal open
		✓

2 x 87 terminal

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	✓	250.000	30 A	12 V	5



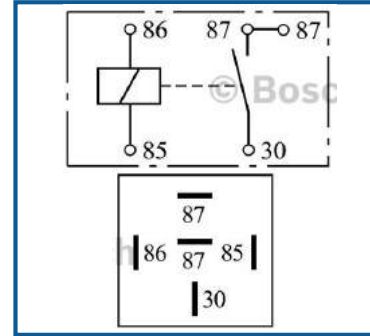
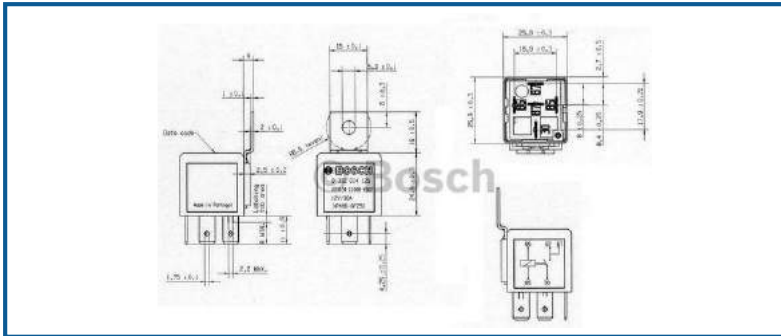
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Mini Relays 12 V, 30 A

Change over	Normal close	Normal open
		✓

2 x 87 terminal

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	250.000	30 A	12 V	5



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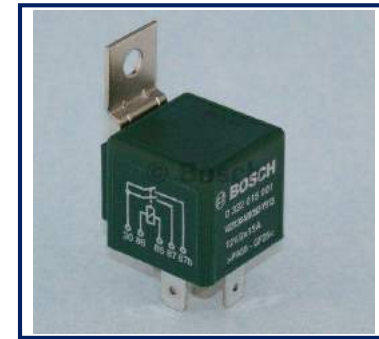
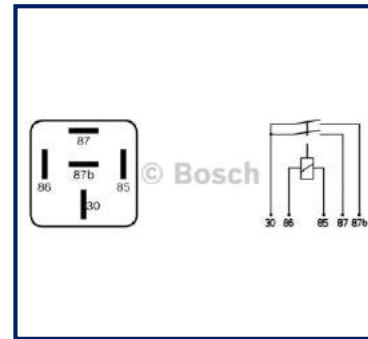
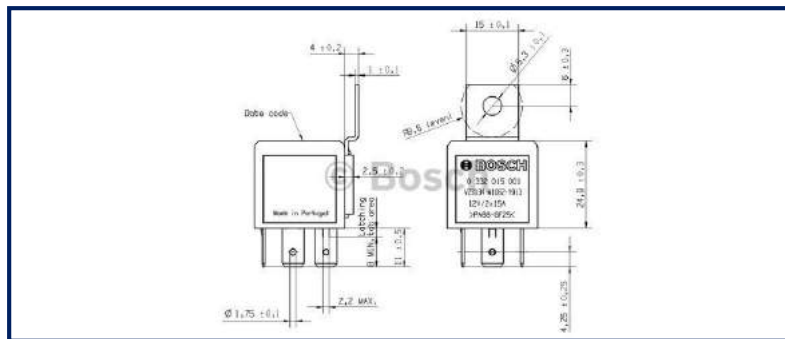
Mini Relays 12 V, 15 A

0 332 015 001

Change over	Normal close	Normal open
		✓

2 x make contact

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	100.000	15 A	12 V	5



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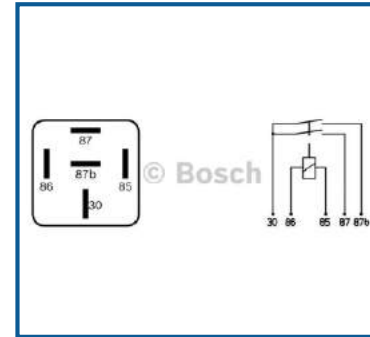
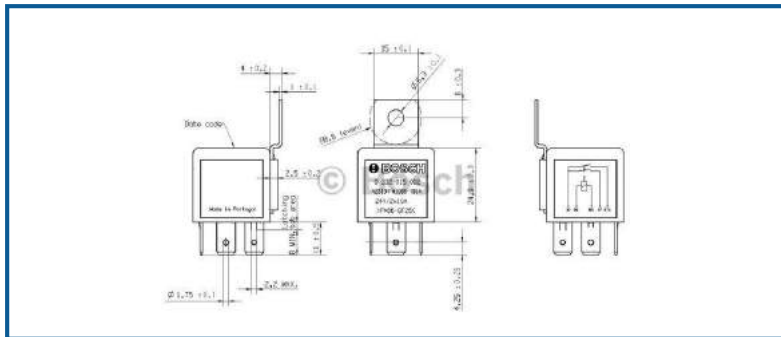
Mini Relays 24 V, 2x15 A

0 332 015 002

Change over	Normal close	Normal open
		✓

2 x make contact

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	100.000	2x15 A	24 V	5



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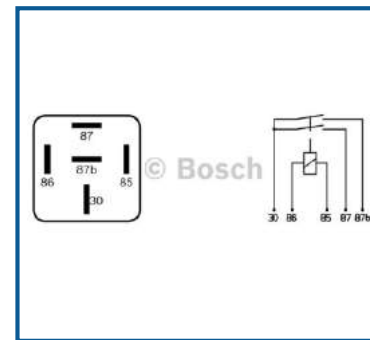
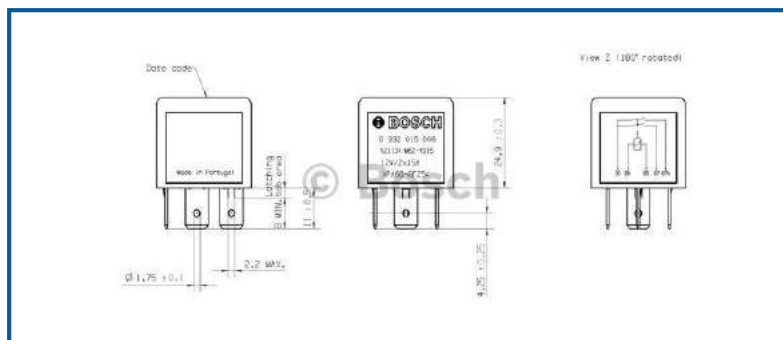
Mini Relays 12 V, 2x15 A

0 332 015 006

Change over	Normal close	Normal open
		✓

2 x make contact

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	X	100.000	2x15 A	12 V	5



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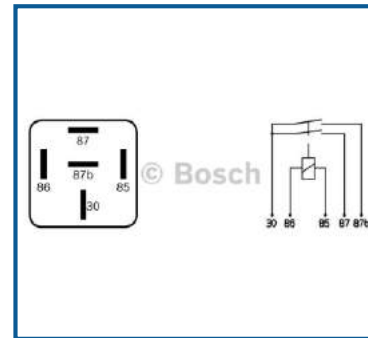
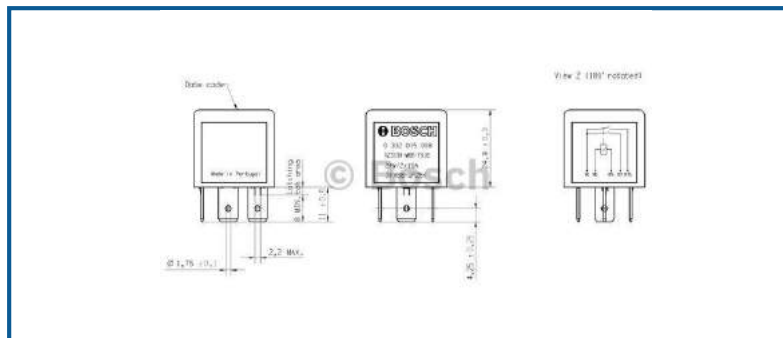
Mini Relays 12 V, 2x10 A

0 332 015 008

Change over	Normal close	Normal open
		✓

2 x make contact

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	X	100.000	2x15 A	12 V	5



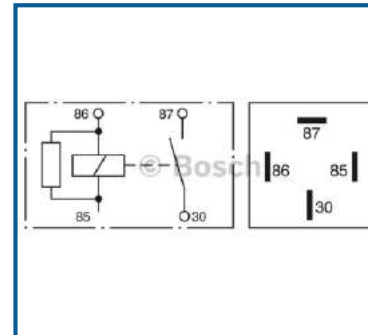
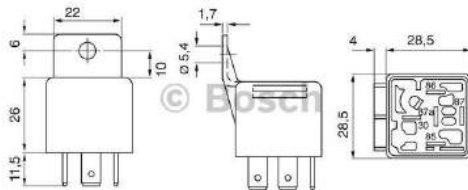
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Mini Relays 12 V, 30 A

0 332 019 103

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	✓	✗	250.000	30 A	12 V	4



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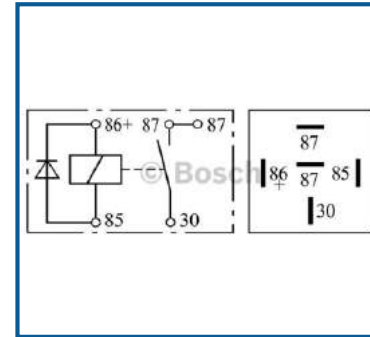
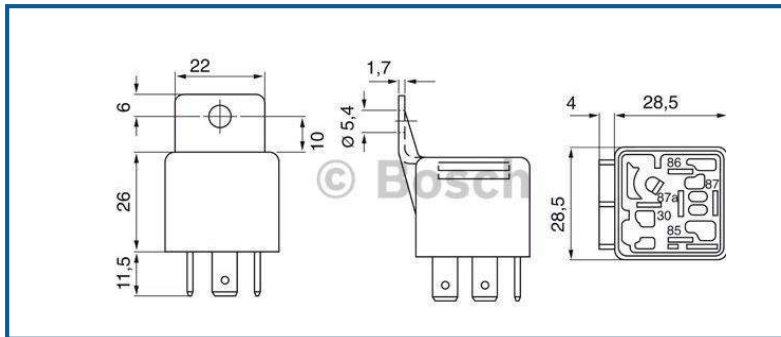
Mini Relays 12 V, 30 A

0 332 019 109

Change over	Normal close	Normal open
		✓

2 x 87 terminal

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	✓	50.000	50 A	12 V	5



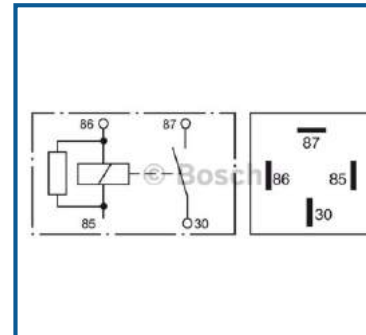
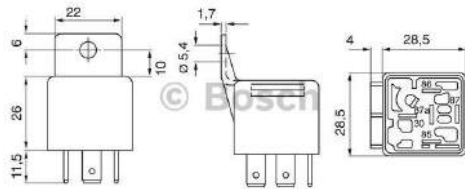
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Mini Relays 12 V, 30 A

0 332 019 110

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	✓	✗	250.000	30 A	12 V	4



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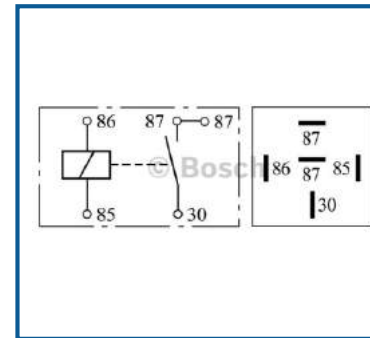
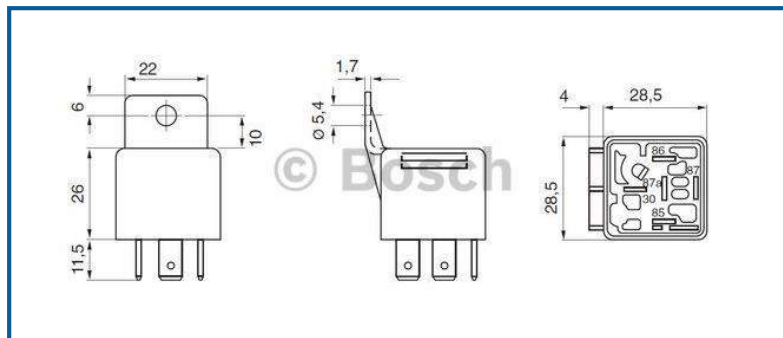
Mini Relays 12 V, 30 A

0 332 019 150

Change over	Normal close	Normal open
		✓

2 x 87 terminal

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	250.000	30 A	12 V	5



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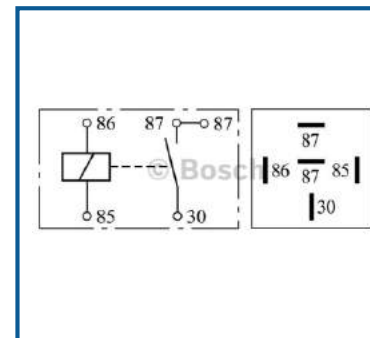
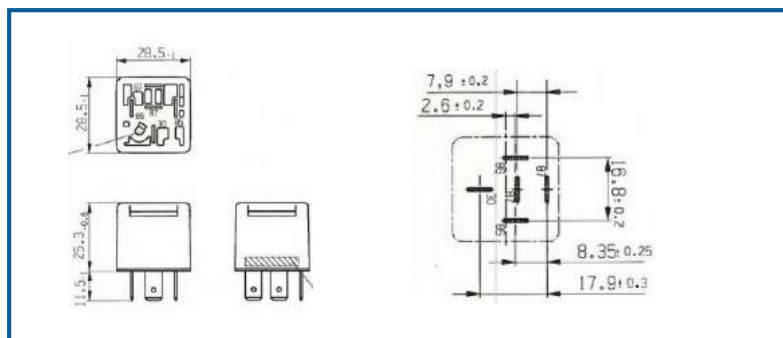
Mini Relays 12 V, 30 A

0 332 019 151

Change over	Normal close	Normal open
		✓

2 x 87 terminal

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	X	250.000	30 A	12 V	5



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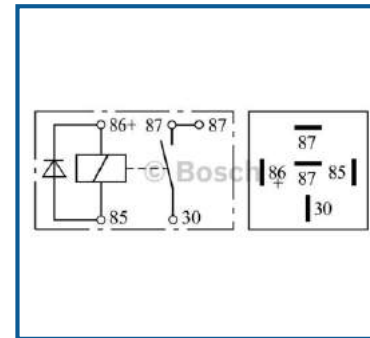
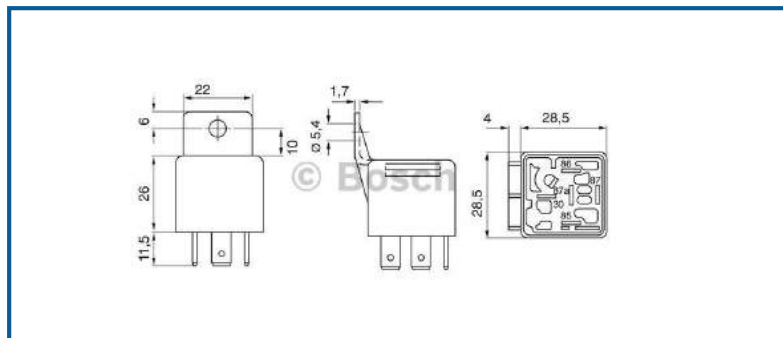
Mini Relays 12 V, 30 A

0 332 019 155

Change over	Normal close	Normal open
		✓

2 x 87 terminal

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	✓	100.000	30 A	12 V	5



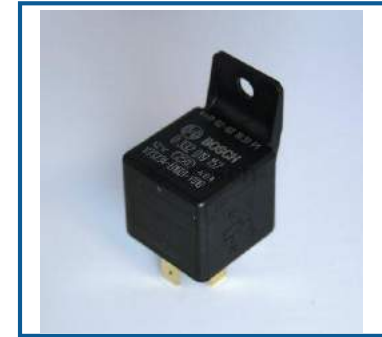
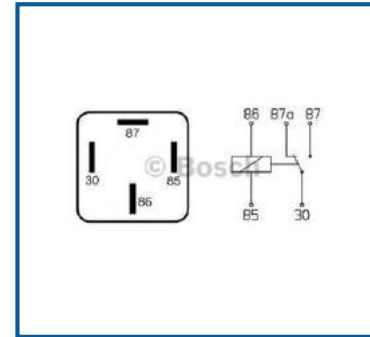
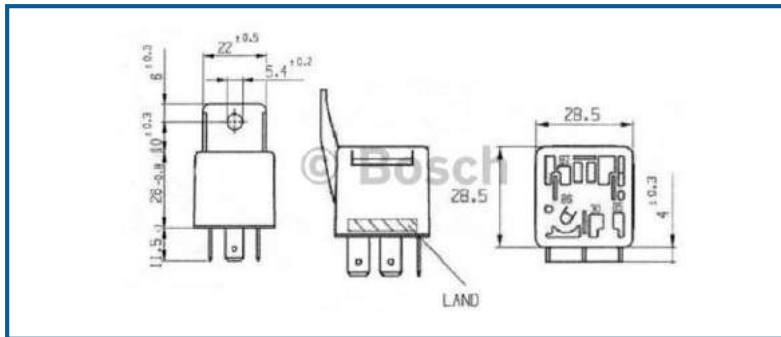
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Mini Relays 12 V, 30 A

0 332 019 157

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	250.000	30 A	12 V	4



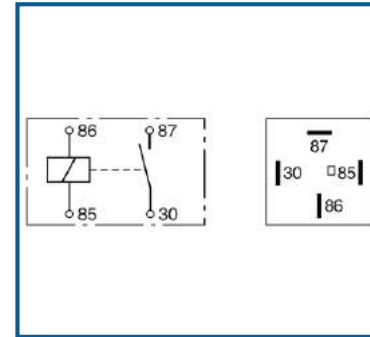
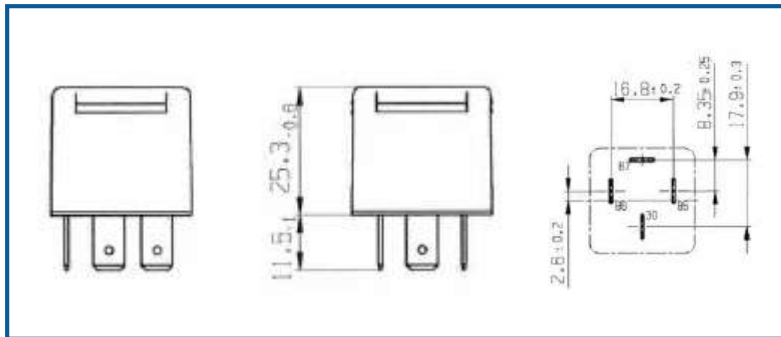
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Mini Relays 12 V, 0 A

0 332 019 166

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	X	250.000	30 A	12 V	4



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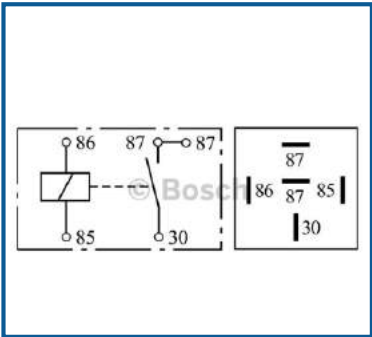
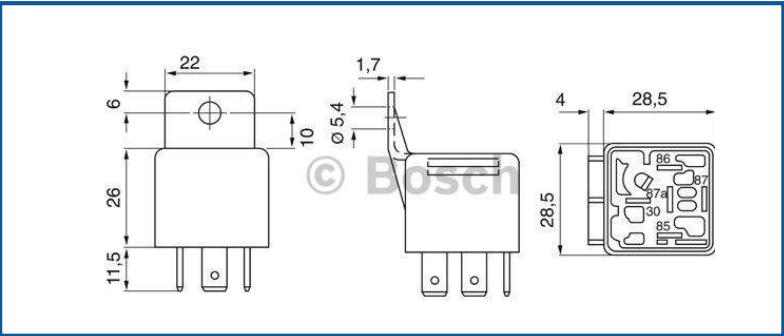
Mini Relays 24 V, 20 A

0 332 019 203

Change over	Normal close	Normal open
		✓

2 x 87 terminal

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	250.000	20 A	24 V	5



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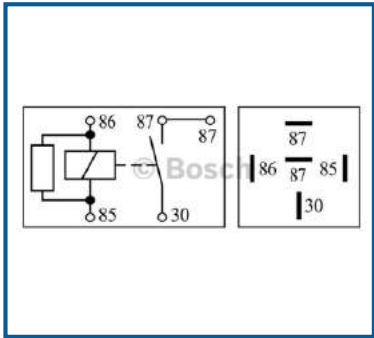
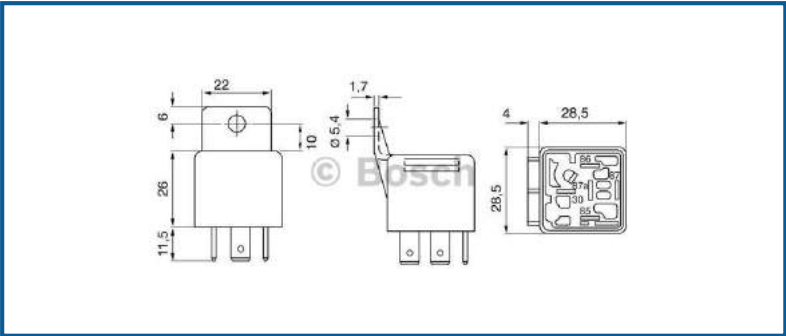
Mini Relays 24 V, 30 A

0 332 019 204

Change over	Normal close	Normal open
		✓

2 x 87 terminal

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	✓	✗	250.000	30 A	24 V	5



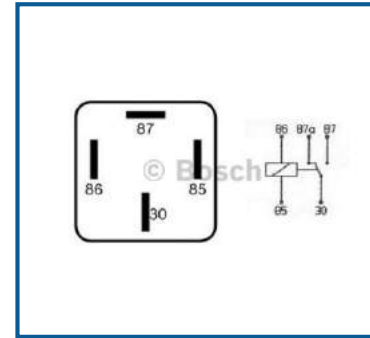
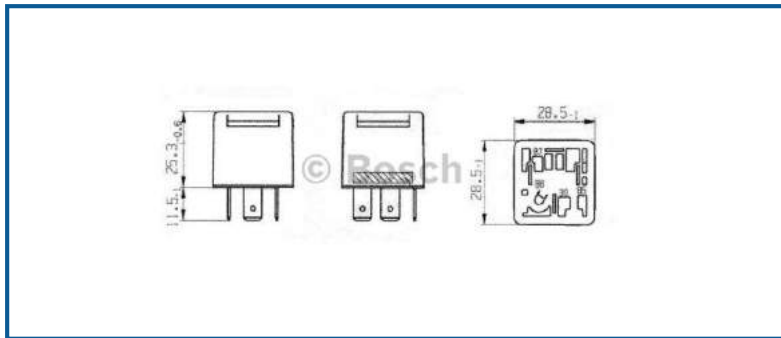
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Mini Relays 24 V, 20 A

0 332 019 205

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	X	250.000	20 A	24 V	4



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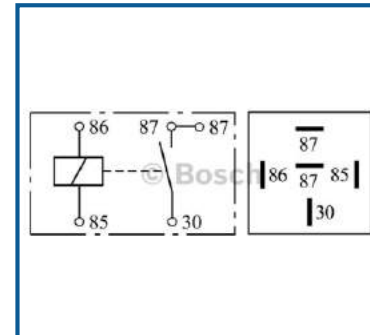
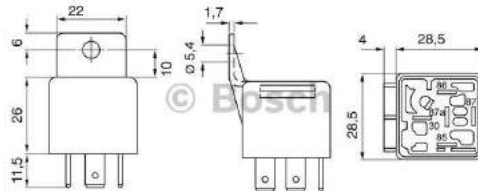
Mini Relays 24 V, 20 A

0 332 019 213

Change over	Normal close	Normal open
		✓

2 x 87 terminal

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	250.000	20 A	24 V	5



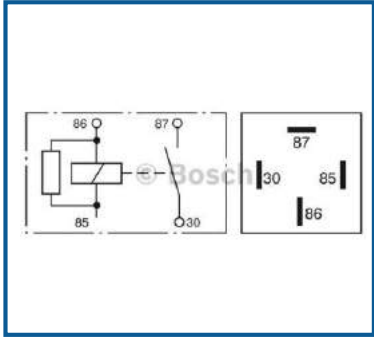
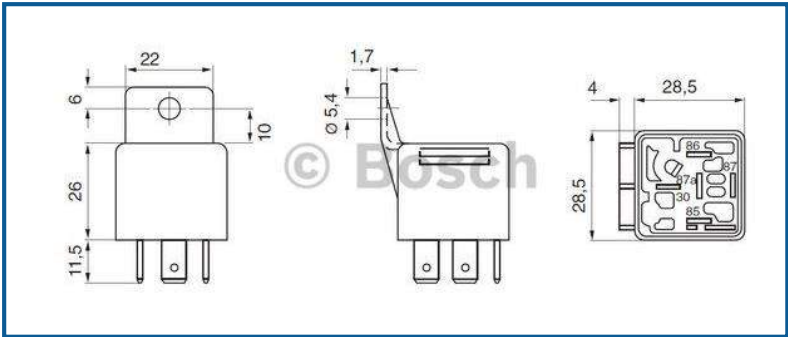
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Mini Relays 12 V, 20 A

0 332 019 453

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	✓	✗	250.000	20 A	12 V	4



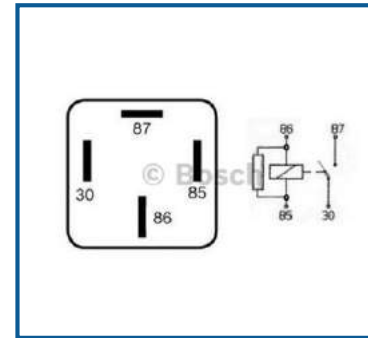
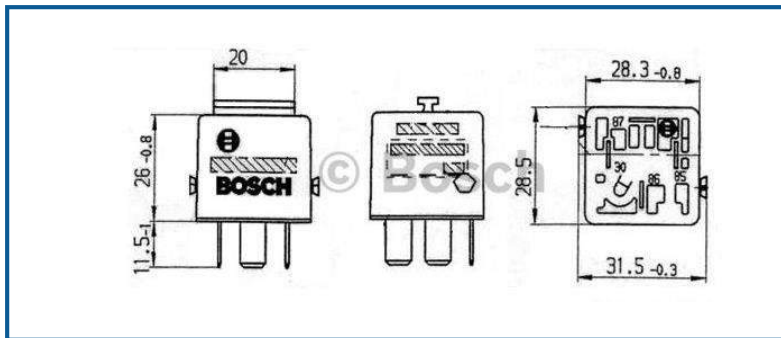
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Mini Relays 12 V, 30 A

0 332 019 456

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	250.000	30 A	12 V	4



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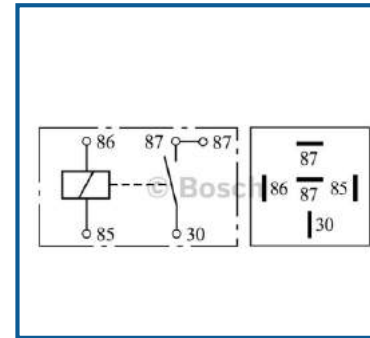
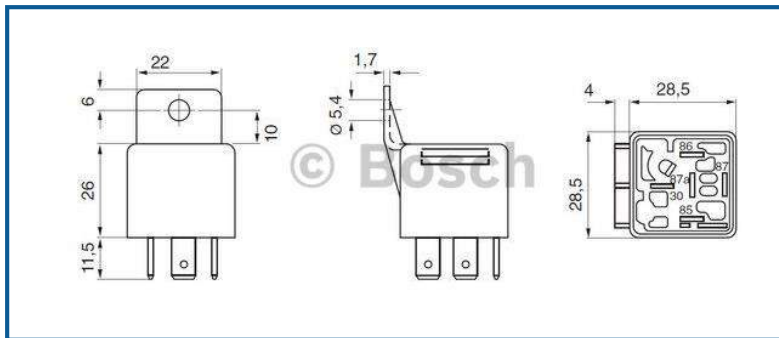
Mini Relays 12 V, 30 A

0 332 019 801

Change over	Normal close	Normal open
		✓

2 x 87 terminal

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	250.000	30 A	12 V	5



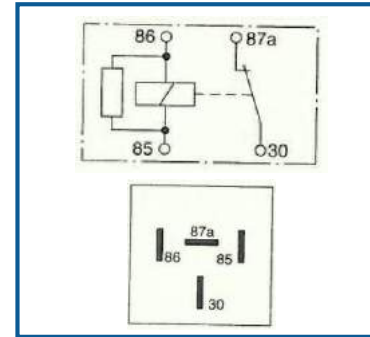
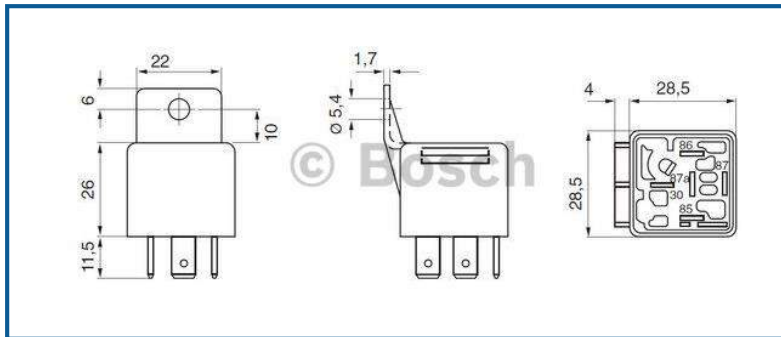
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Mini Relays 12 V, 20 A

0 332 109 011

Change over	Normal close	Normal open
	✓	

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	✓	✗	50.000	20 A	12 V	4



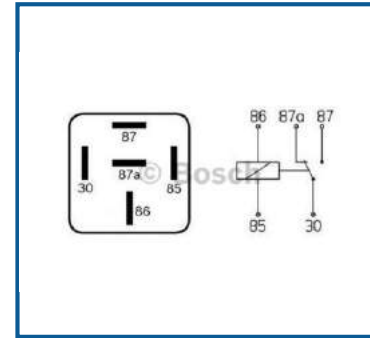
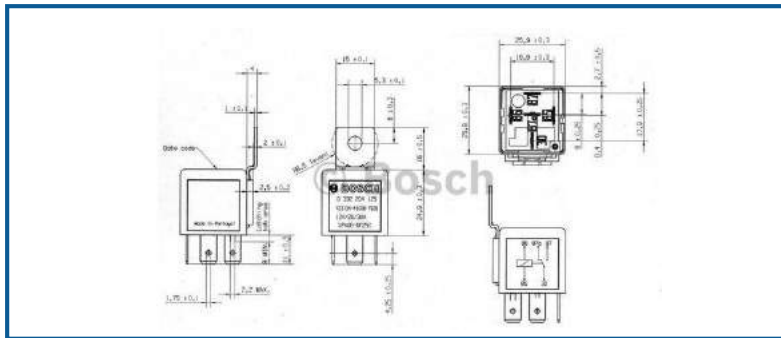
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Mini Relays 12 V, 30 A

0 332 204 125

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	250.000	30 A	12 V	5



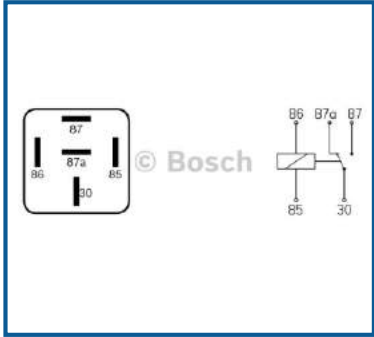
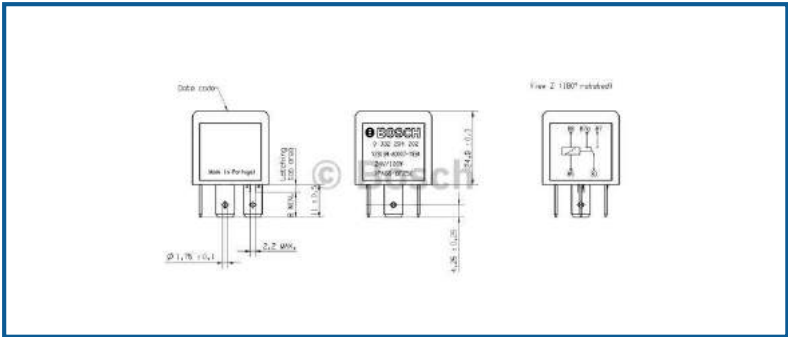
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Mini Relays 24 V, 20 A

0 332 204 202

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	X	250.000	20 A	24 V	5

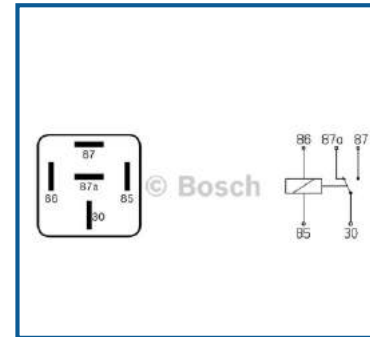
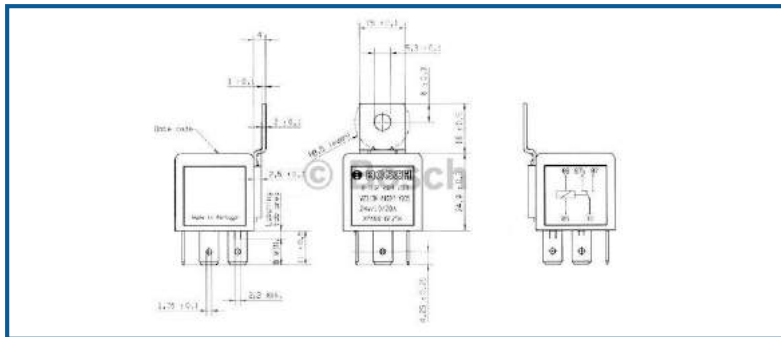


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Mini Relays 24 V, 20 A

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	250.000	20 A	24 V	5



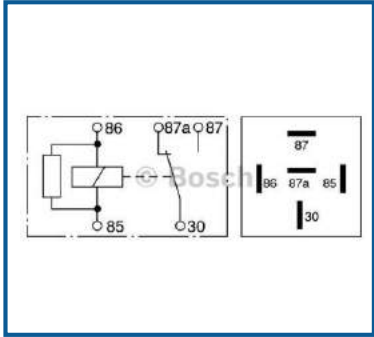
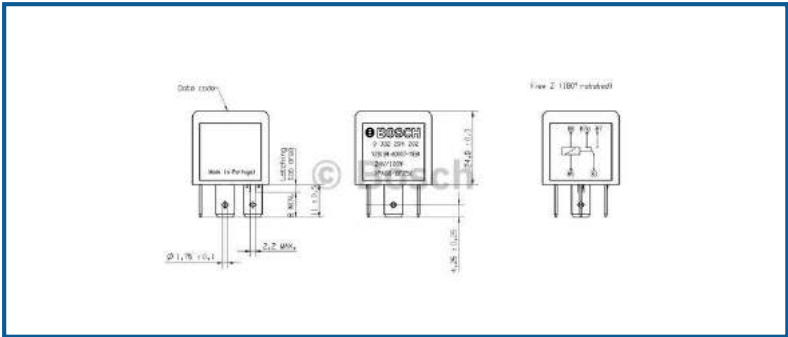
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Mini Relays 12 V, 30/20 A

0 332 209 137

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	250.000	30/20 A	12 V	5

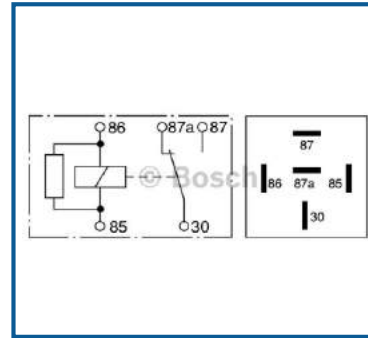
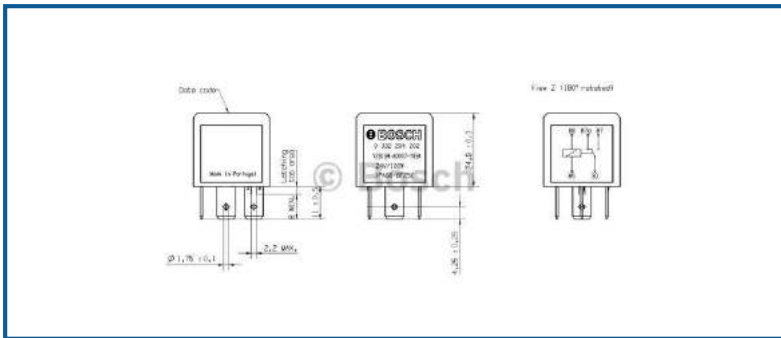


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Mini Relays 12 V, 30/20 A

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	250.000	30/20 A	12 V	5



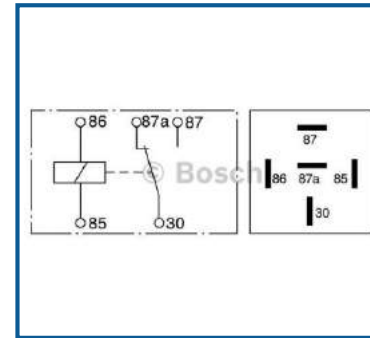
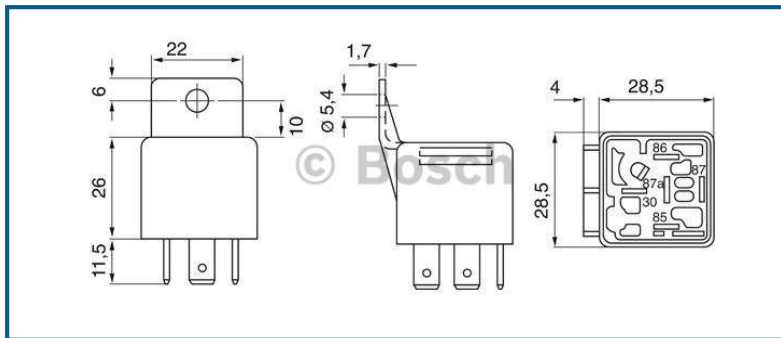
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Mini Relays 12 V, 30/20 A

0 332 209 150

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	250.000	30 A	12 V	5



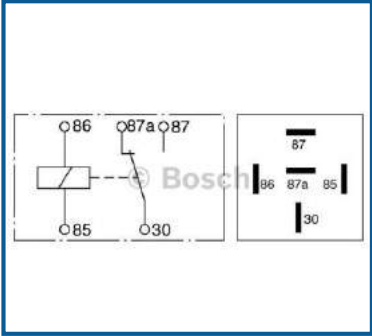
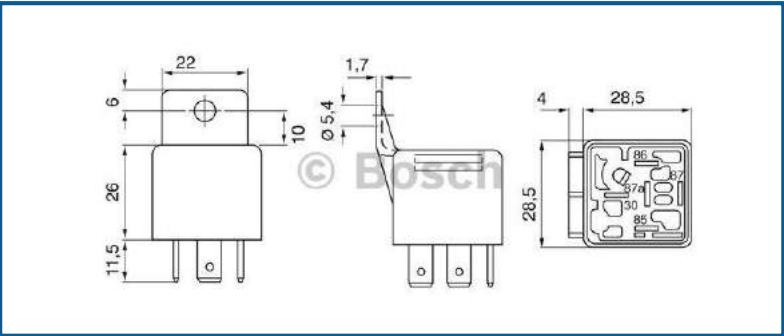
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Mini Relays 12 V, 30/20 A

0 332 209 151

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	250.000	30/20 A	12 V	5



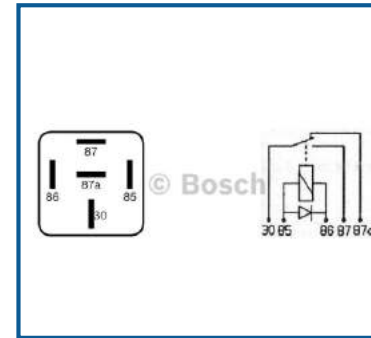
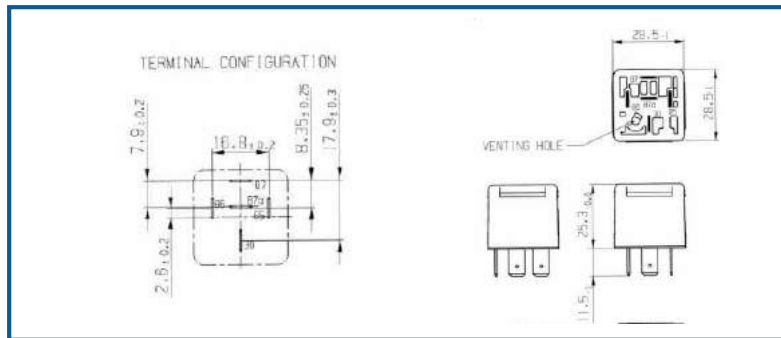
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Mini Relays 12 V, 30/20 A

0 332 209 152

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	✓	250.000	30/20 A	12 V	5



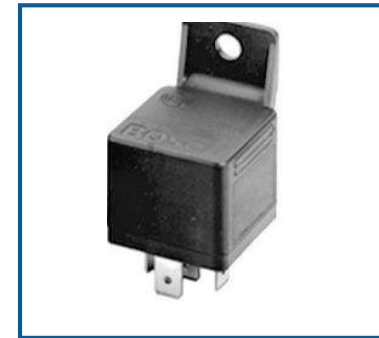
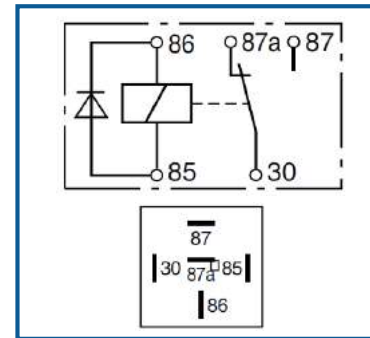
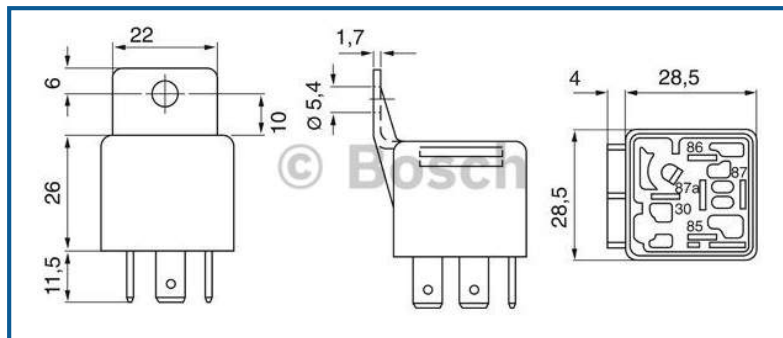
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Mini Relays 12V, 30A / 20A

0 332 209 158

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	✓	250.000	30A / 20A	12 V	5



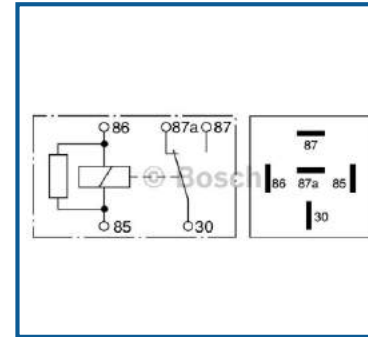
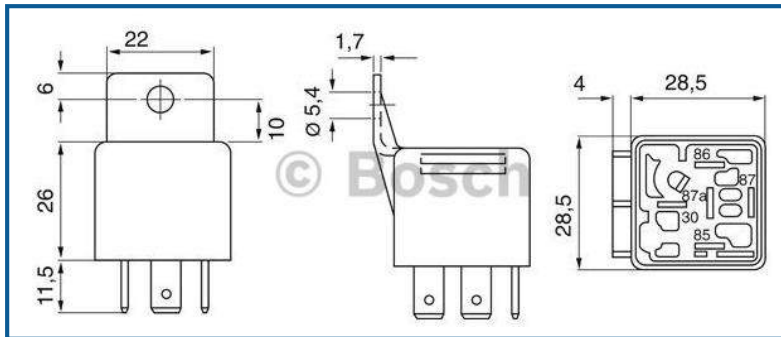
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Mini Relays 12V, 30A / 20A

0 332 209 159

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	✓	✗	250.000	30A / 20A	12 V	4



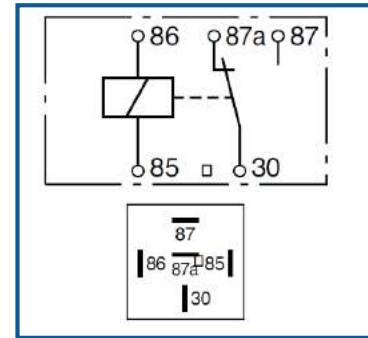
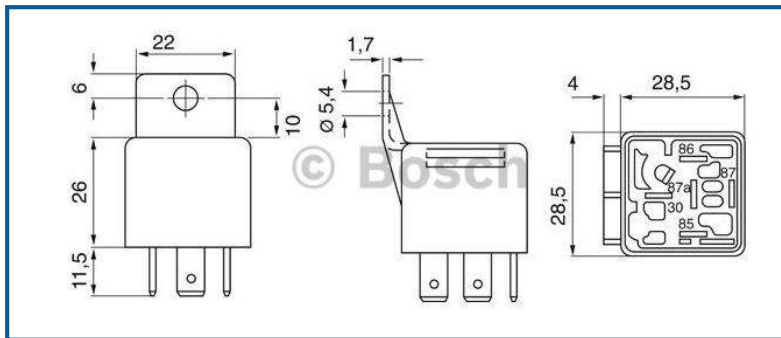
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Mini Relays 24V, 20A / 10A

0 332 209 203

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	250.000	20A / 10A	24 V	5



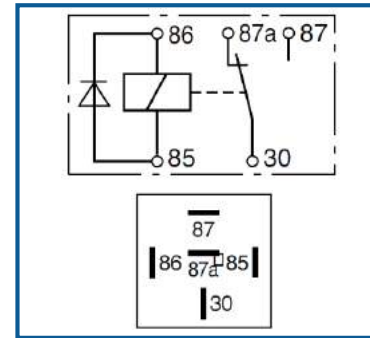
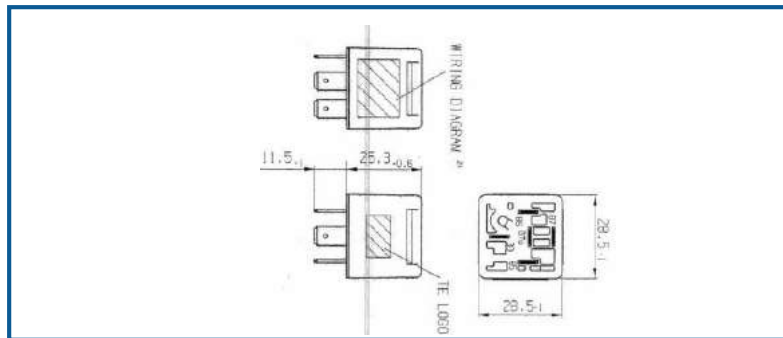
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Mini Relays 24V, 20A / 10A

0 332 209 204

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	✓	250.000	20A / 10A	24 V	5



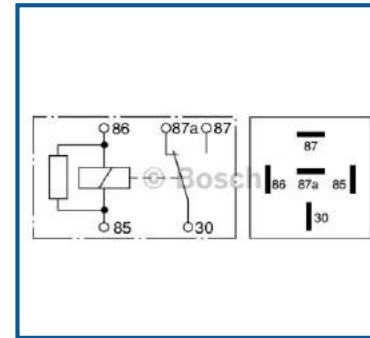
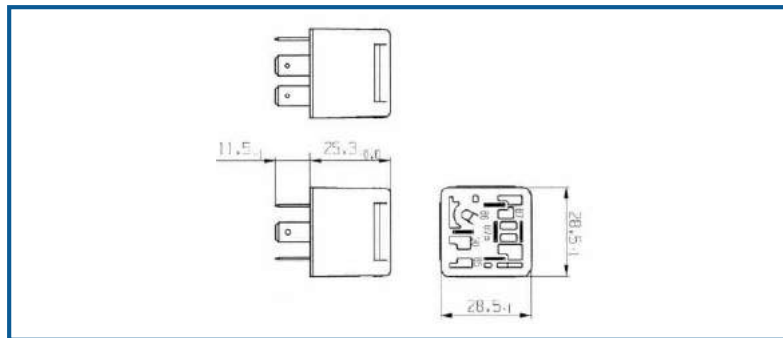
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Mini Relays 24V, 20A / 10A

0 332 209 206

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	250.000	20A / 10A	24 V	4



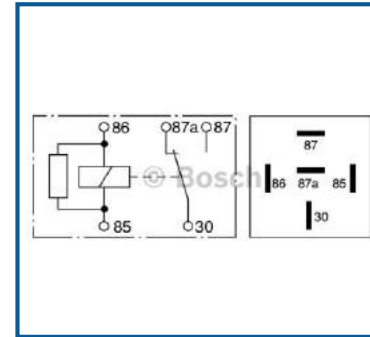
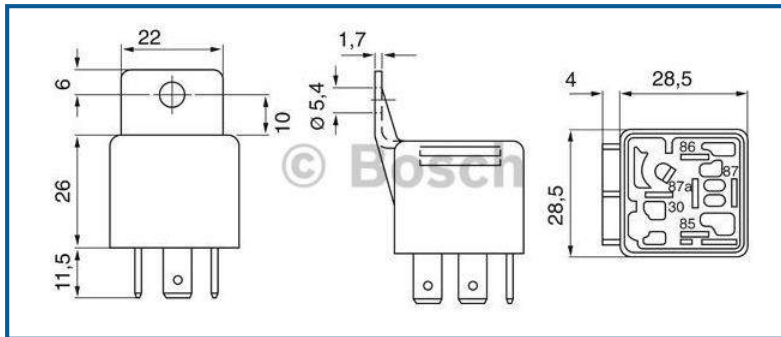
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Mini Relays 24V, 20A / 10A

0 332 209 207

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	✓	✗	250.000	20A / 10A	24 V	4



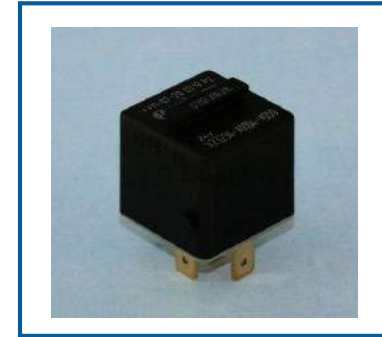
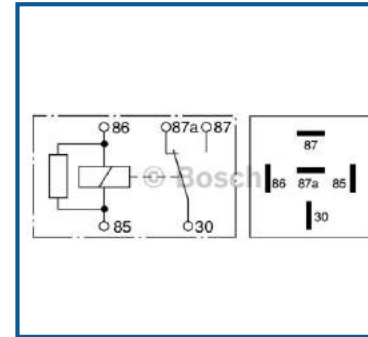
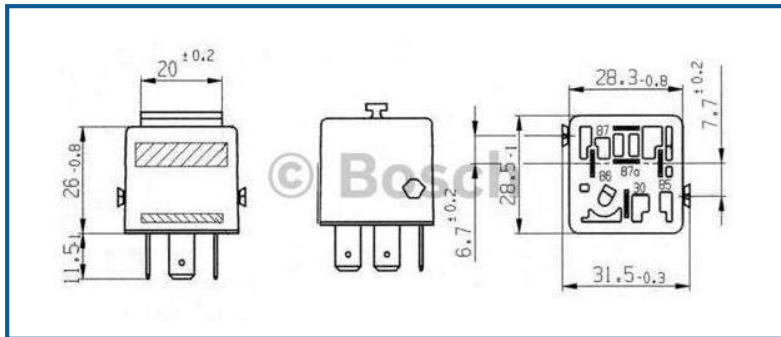
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Mini Relays 24V, 20A / 10A

0 332 209 211

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
T-BAR	✓	✗	250.000	20A / 10A	24 V	4



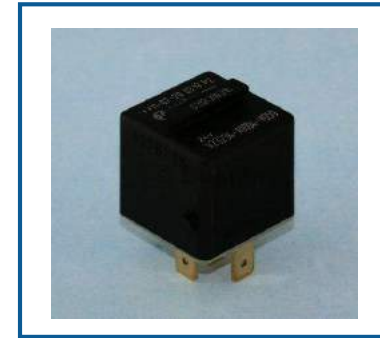
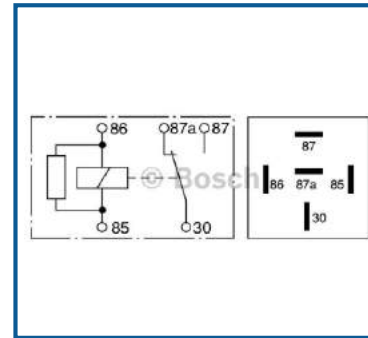
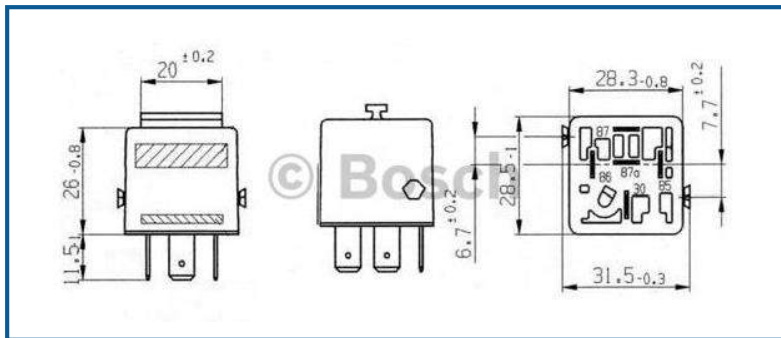
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Mini Relays 24V, 20 A

0 332 209 216

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
T-BAR	✓	✗	250.000	20 A	24 V	4



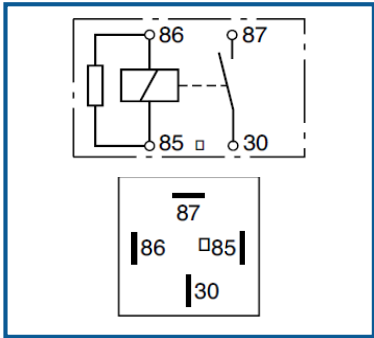
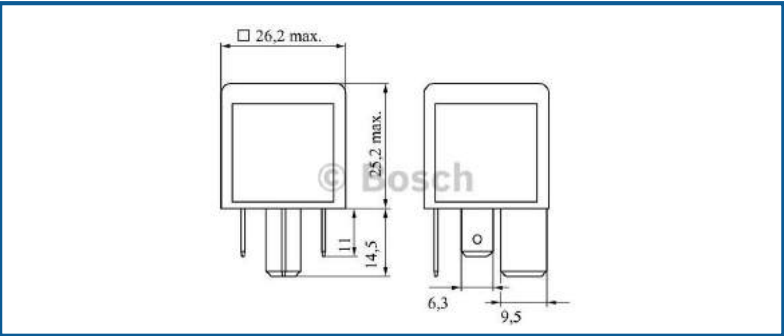
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Mini Relays 12 V, 70 A

0 986 332 002

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	70 A	12 V	4



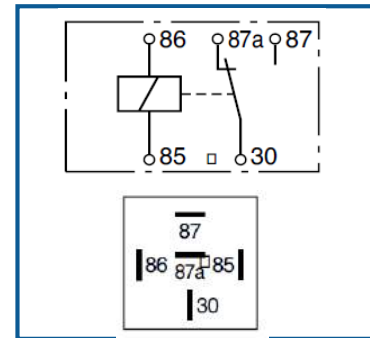
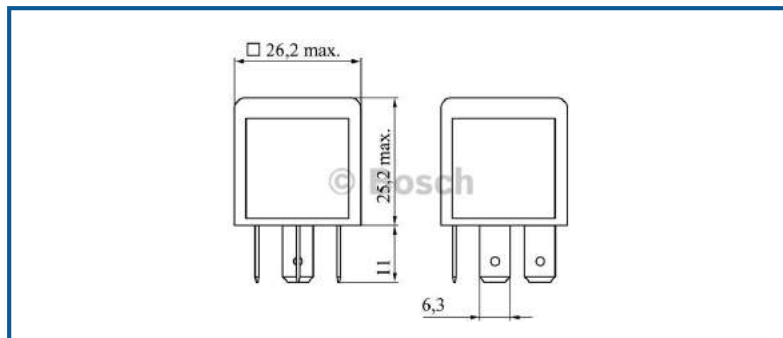
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Mini Relays 12 V, 40A / 60A

0 986 332 022

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	X	100.000	40A / 60A	12 V	5



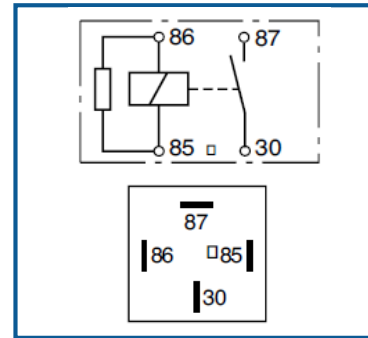
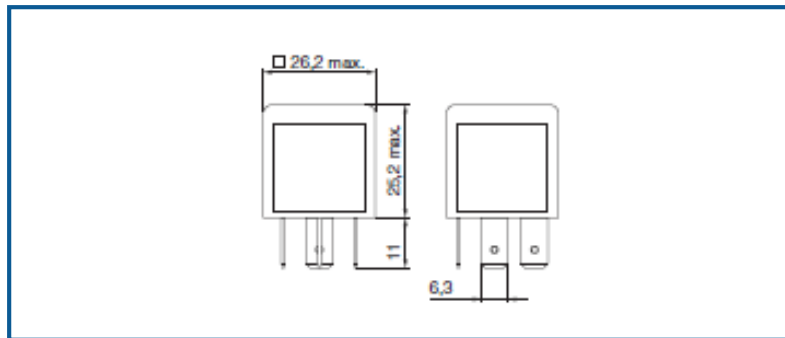
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Mini Relays 12 V, 60 A

0 986 332 030

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	60 A	12 V	4



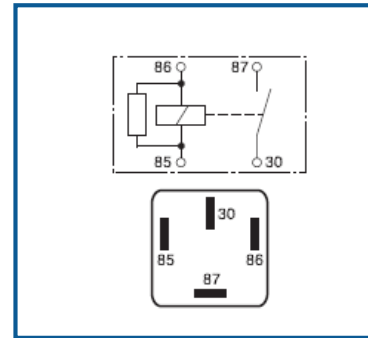
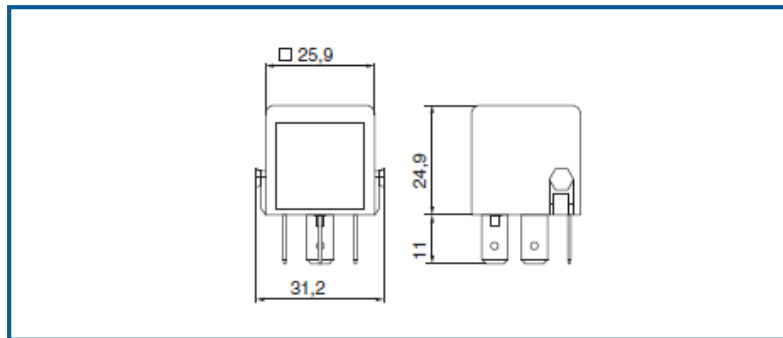
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Mini Relays 12 V, 40 A

0 986 332 040

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	40 A	12 V	4



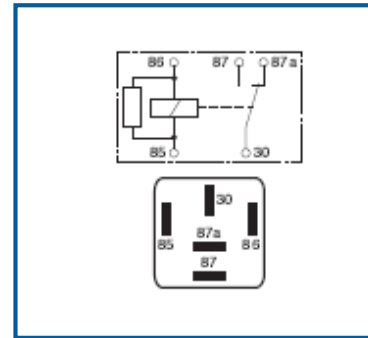
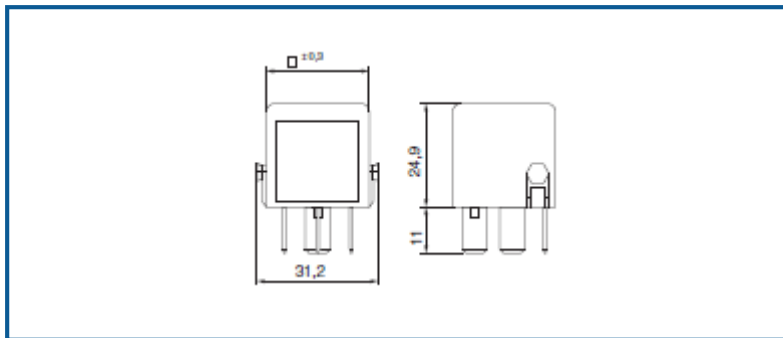
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Mini Relays 12 V, 40 A

0 986 332 041

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	40 A	12 V	5



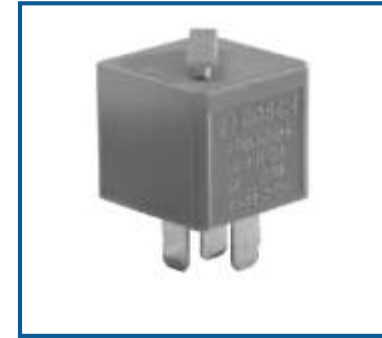
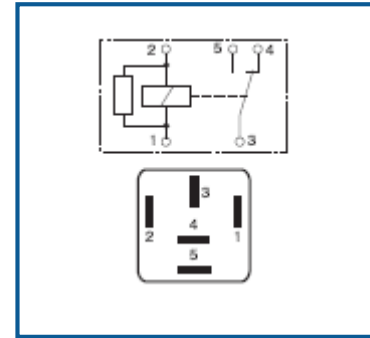
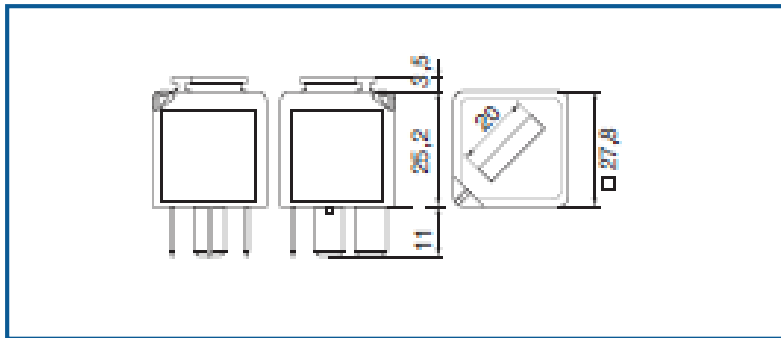
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Mini Relays 12 V, 40/60 A

0 986 332 053

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	40 A	12 V	5



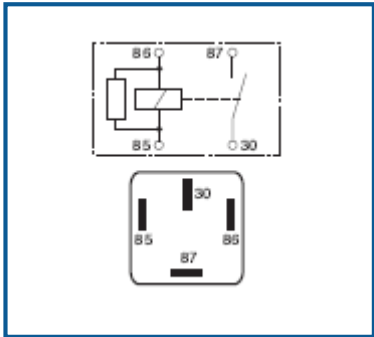
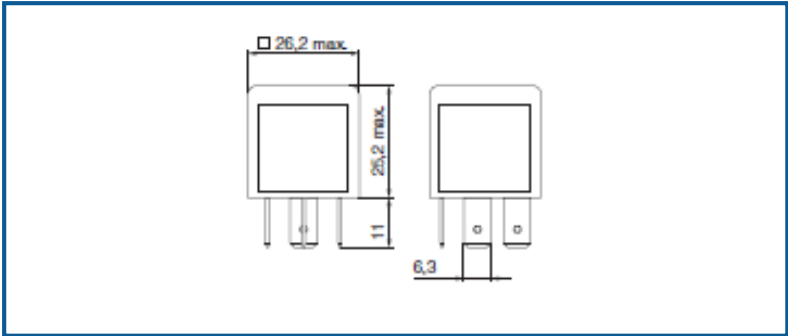
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Mini Relays 12 V, 40 A

0 986 332 071

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	40 A	12 V	4



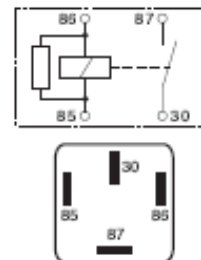
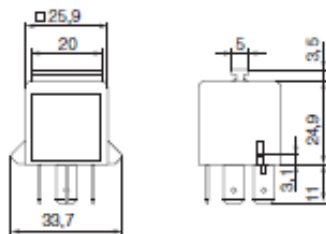
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Mini Relays 12 V, 40 A

0 986 332 072

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	40 A	12 V	4



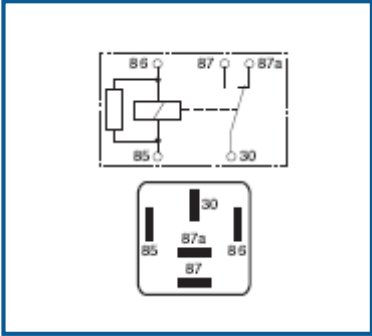
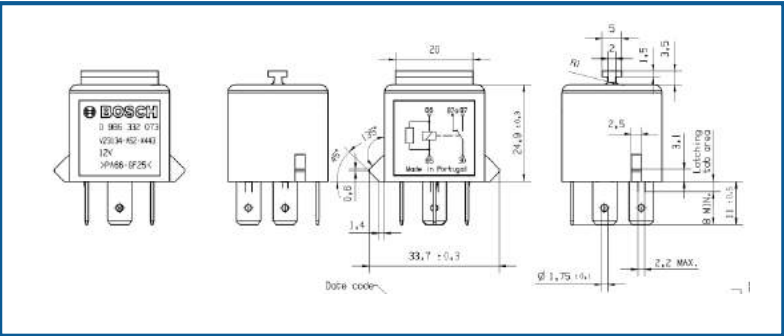
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Mini Relays 12 V, 40/60 A

0 986 332 073

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	40 A	12 V	5



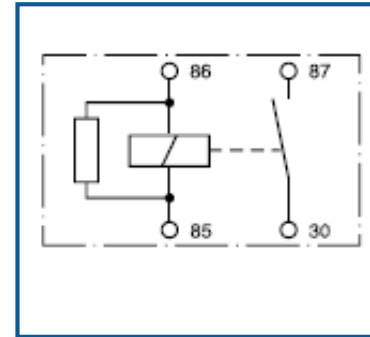
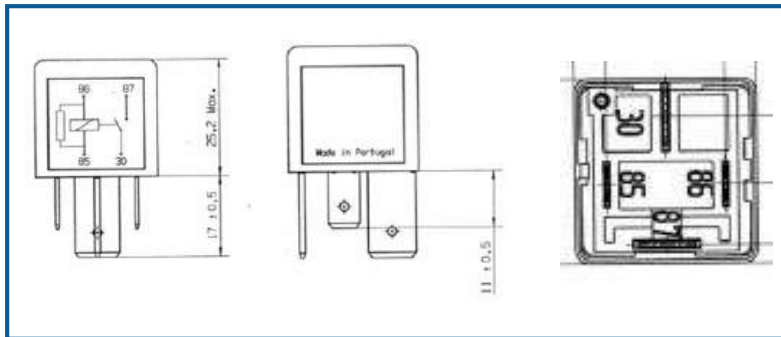
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Mini Relays 24 V, 50 A

0 986 332 080

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	200.000	50 A	24 V	4



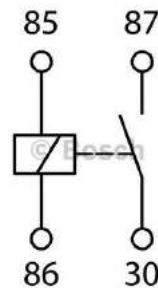
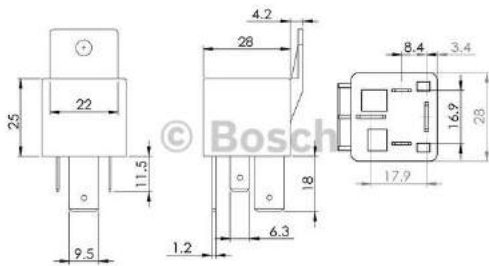
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Mini Relays 12 V, 70 A

0 986 AH0 080

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	100.000	70 A	12 V	5



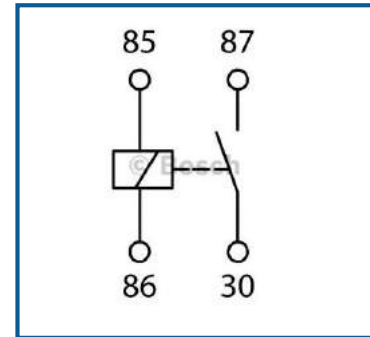
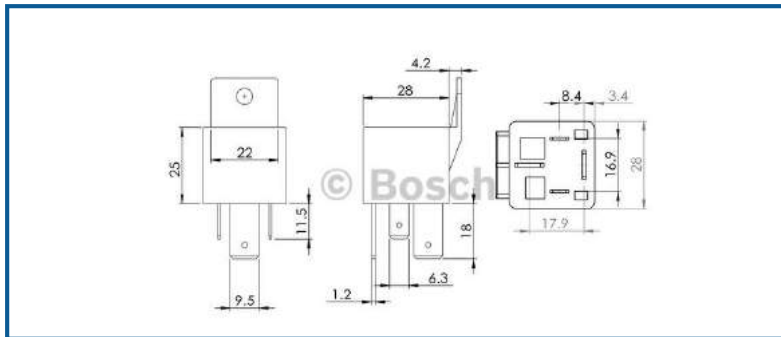
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Mini Relays 24 V, 30 A

0 986 AH0 081

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	100.000	30 A	24 V	5



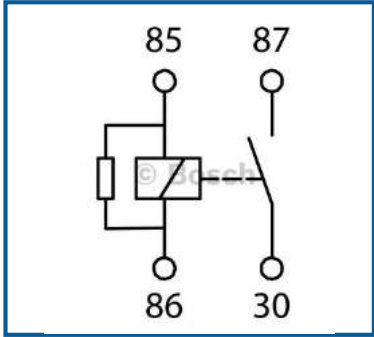
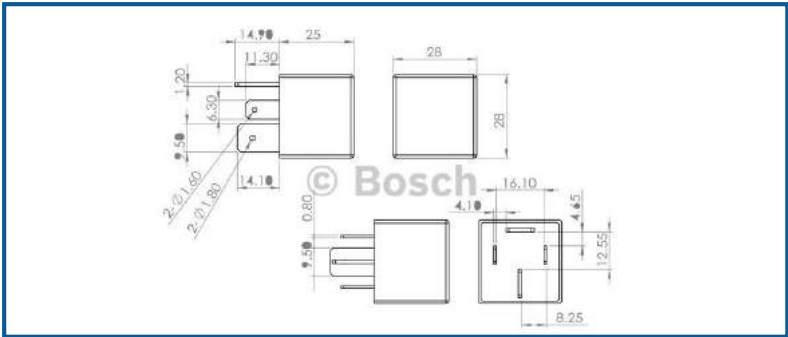
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Mini Relays 12 V, 70 A

0 986 AH0 082

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	70 A	12 V	4



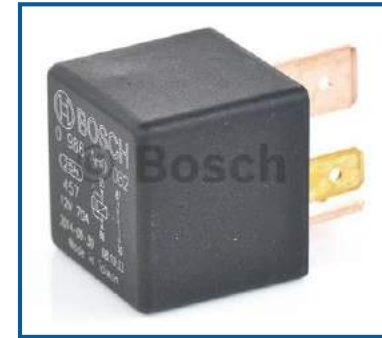
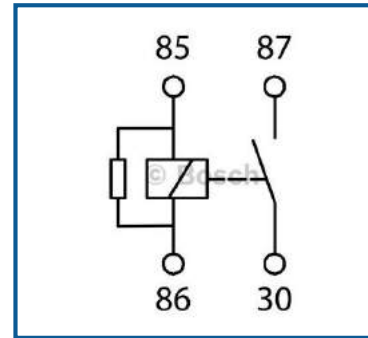
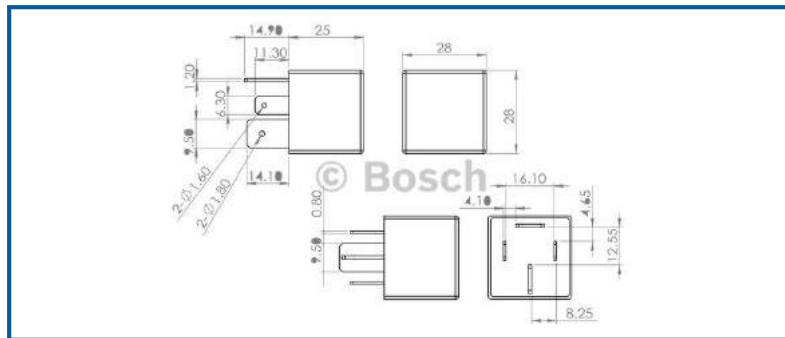
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Mini Relays 24 V, 30 A

0 986 AH0 083

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	30 A	24 V	4



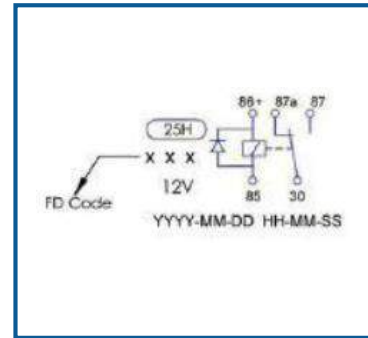
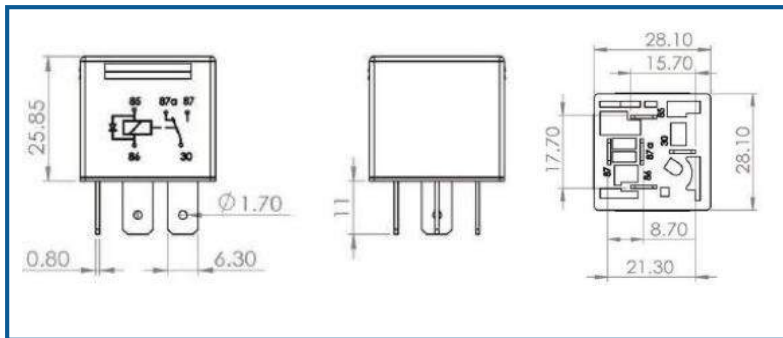
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Mini Relays 12 V, 50 A

0 986 AH0 135

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	✓	50.000	50 A	12 V	5



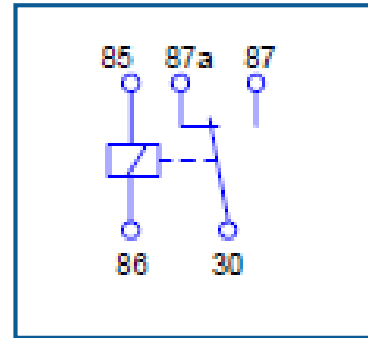
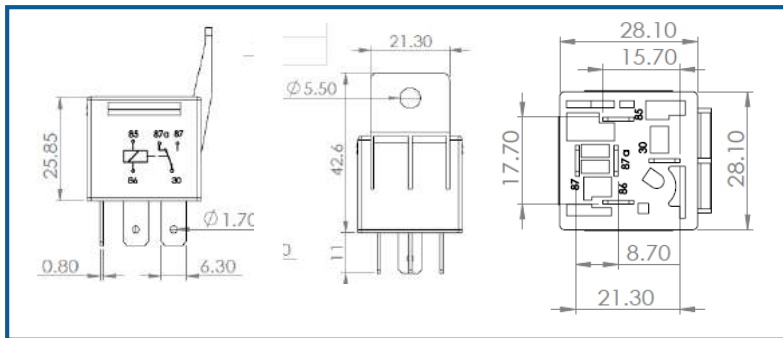
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Mini Relays 12 V, 30 A

0 986 AH0 150

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	100.000	30 A	12 V	5



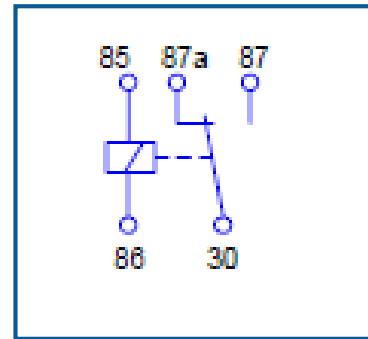
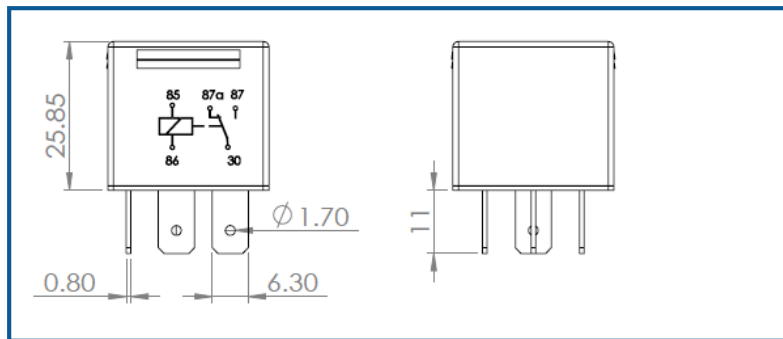
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Mini Relays 12 V, 30 A

0 986 AH0 151

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	X	100.000	30 A	12 V	5



[Back to general overview](#)

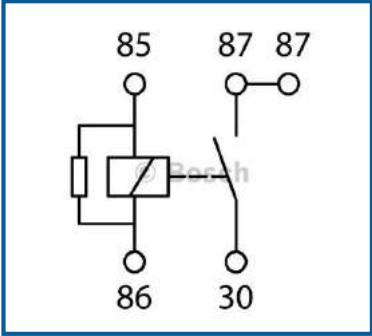
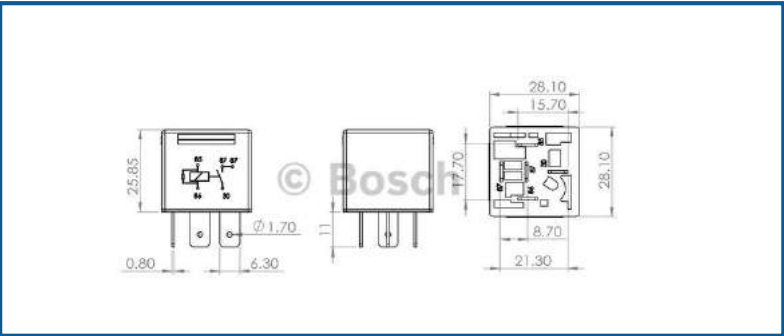
Mini Relays 24 V, 20 A

0 986 AH0 204

Change over	Normal close	Normal open
		✓

2 x 87 terminal

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	20 A	24 V	4



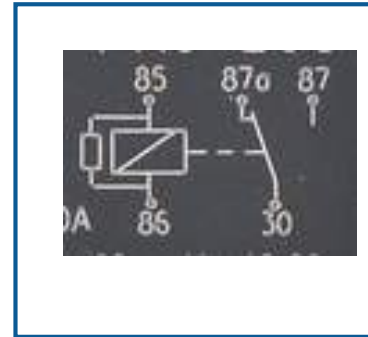
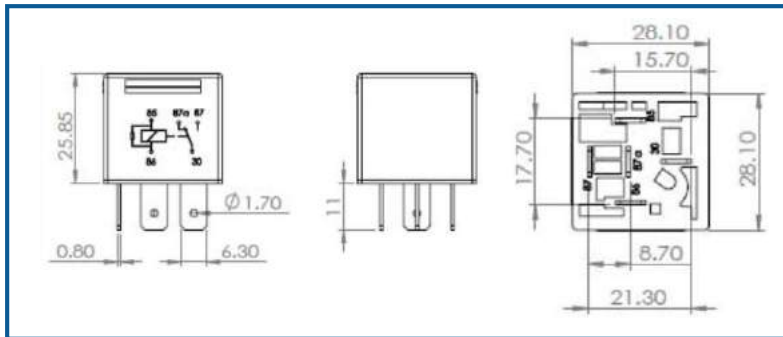
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Mini Relays 24 V, 20 A

0 986 AH0 206

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	20 A	24 V	5



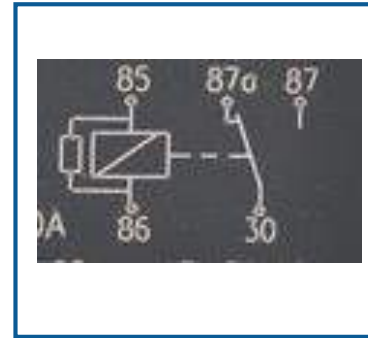
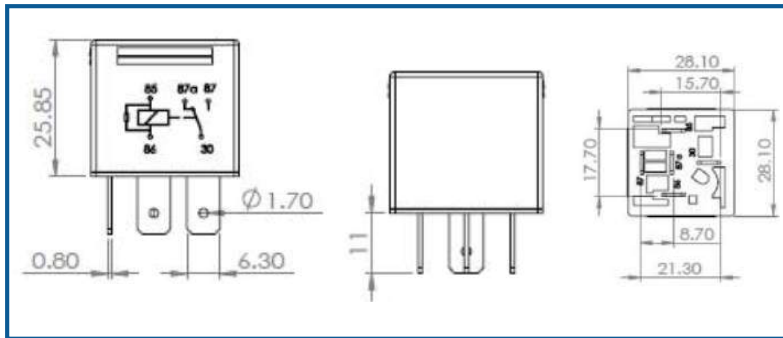
[Back to general overview](#)

Mini Relays 12 V, 20 A

0 986 AH0 237

Change over	Normal close	Normal Open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	75.000	20 A	12 V	5



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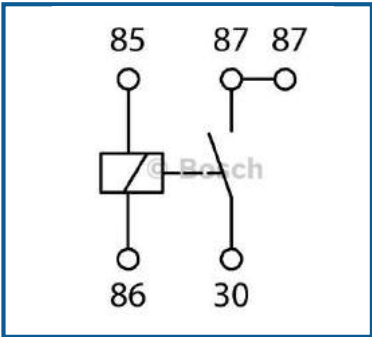
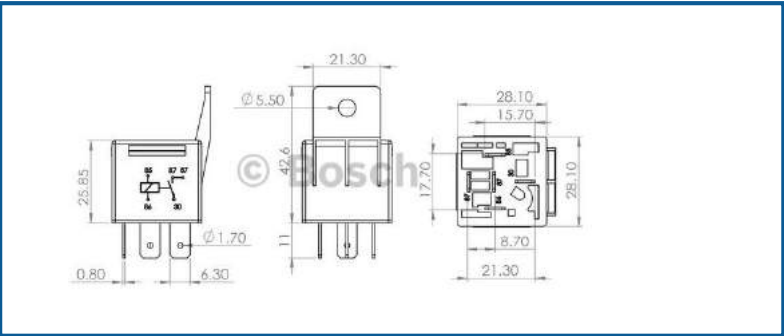
Mini Relays 12 V, 30 A

0 986 AH0 250

Change over	Normal close	Normal open
		✓

2 x 87 terminal

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	100.000	30 A	12 V	5



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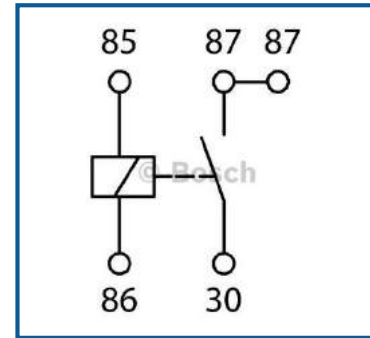
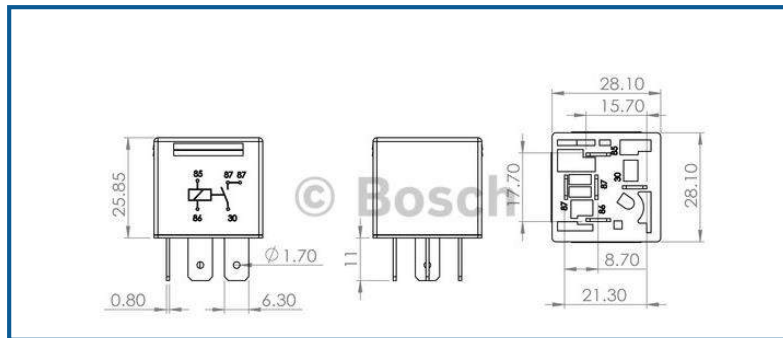
Mini Relays 12 V, 30 A

0 986 AH0 251

Change over	Normal close	Normal open
		✓

2 x 87 terminal

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	30 A	12 V	5



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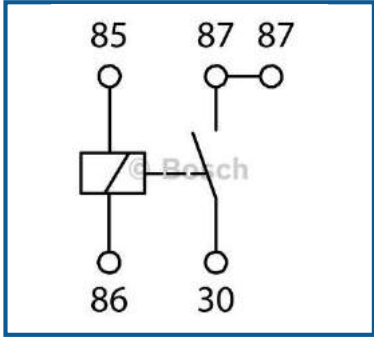
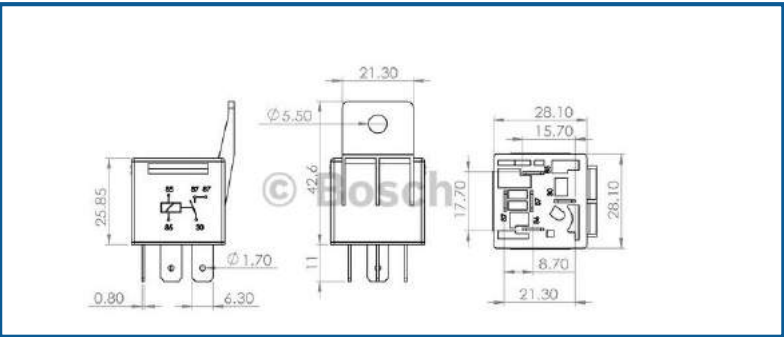
Mini Relays 24 V, 20 A

0 986 AH0 253

Change over	Normal close	Normal open
		✓

2 x 87 terminal

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	100.000	20 A	24 V	5



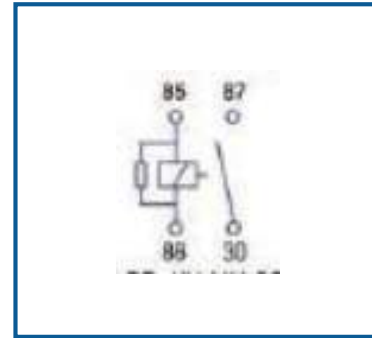
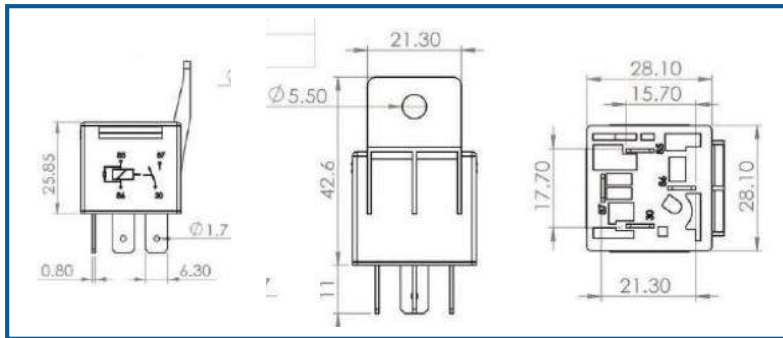
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Mini Relays 12 V, 30 A

0 986 AH0 453

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	✓	✗	100.000	30 A	12 V	4



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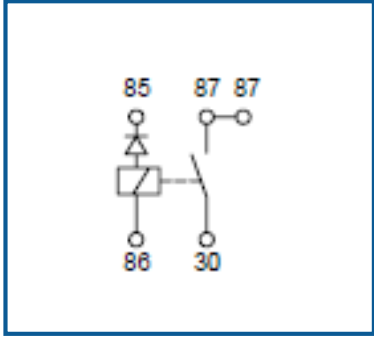
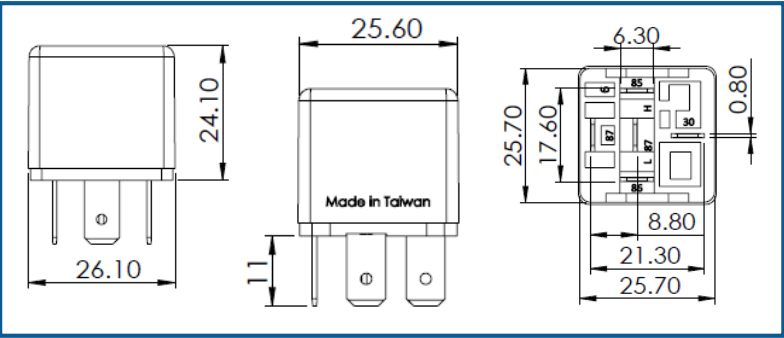
Mini Relays 12 V, 30 A

0 986 AH0 602

Change over	Normal close	Normal open
		✓

2 x 87 terminal

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	✓	100.000	30 A	12 V	5



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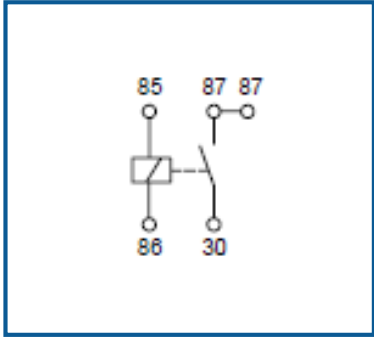
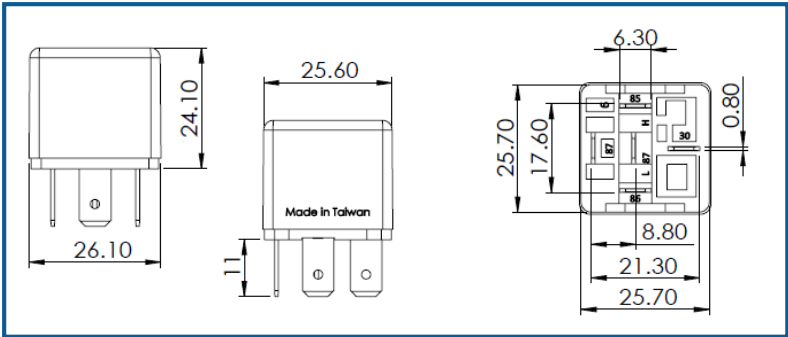
Mini Relays 24 V, 20 A

0 986 AH0 603

Change over	Normal close	Normal open
		✓

2 x 87 terminal

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	X	100.000	20 A	24 V	5



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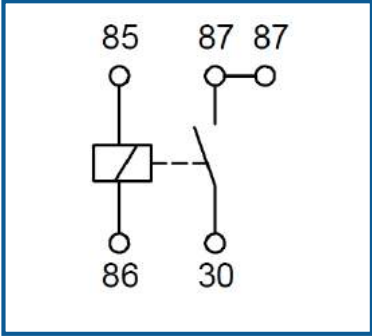
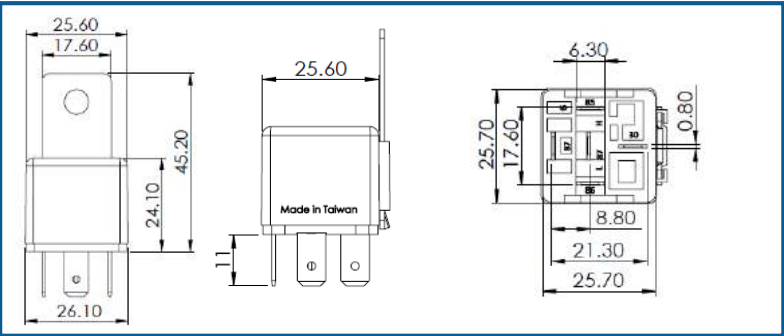
Mini Relays 12 V, 30 A

0 986 AH0 605

Change over	Normal close	Normal open
		✓

2 x 87 terminal

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	100.000	30 A	12 V	5



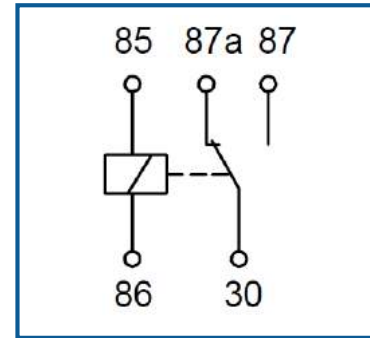
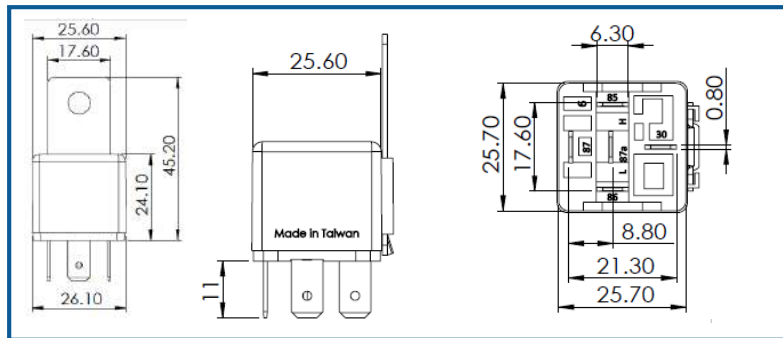
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Mini Relays 6 V, 20/30 A

0 986 AH0 611

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	100.000	20/30 A	6 V	5



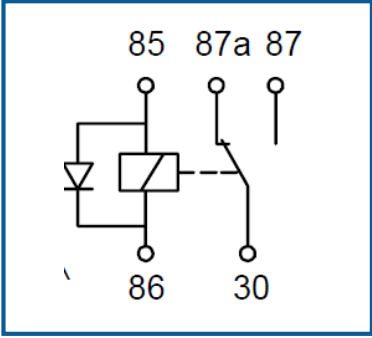
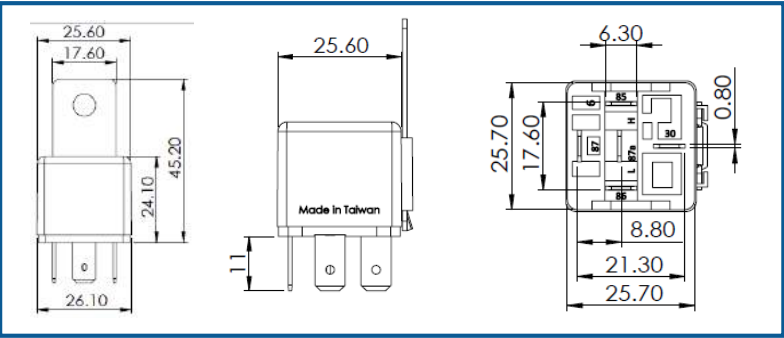
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Mini Relays 24 V, 10 A

0 986 AH0 612

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	✓	100.000	10 A	24 V	5



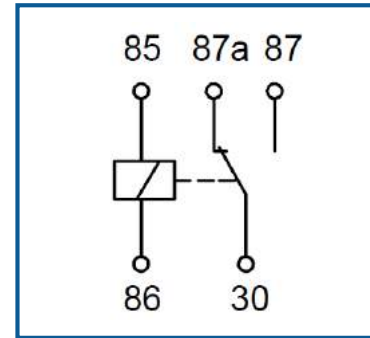
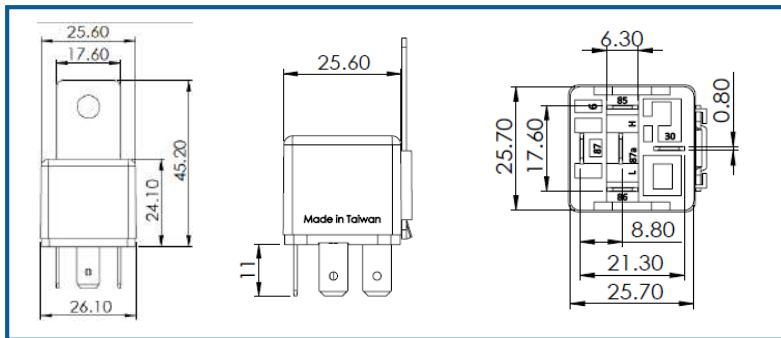
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Mini Relays 24 V, 20 A

0 986 AH0 613

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	100.000	20 A	24 V	5



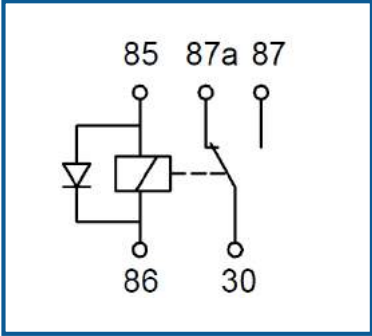
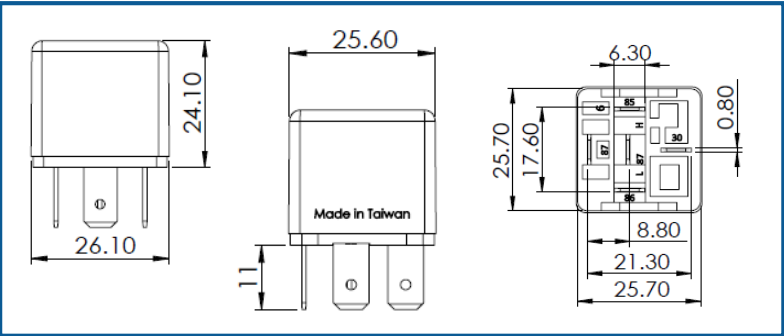
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Mini Relays 24 V, 20/10 A

0 986 AH0 614

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	✓	100.000	20/10 A	24 V	5



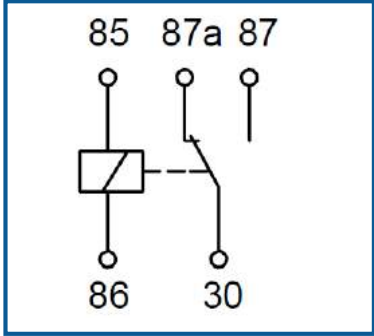
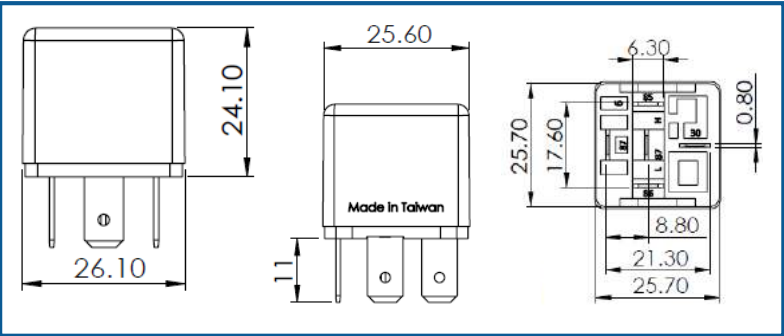
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Mini Relays 24 V, 20 A

0 986 AH0 615

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	X	100.000	20 A	24 V	5



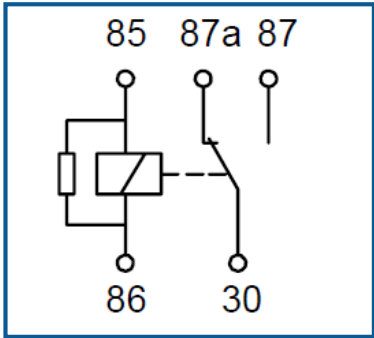
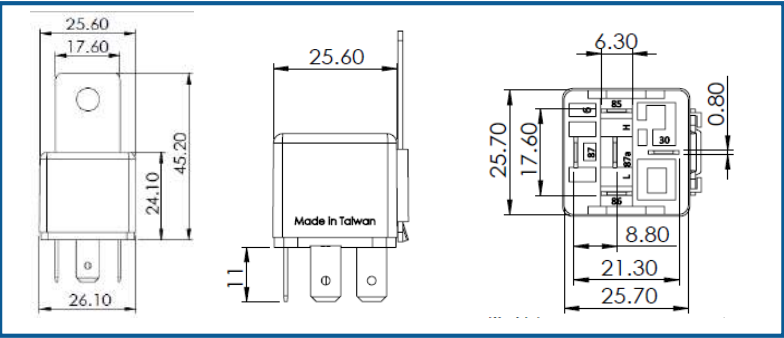
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Mini Relays 24 V, 20/10 A

0 986 AH0 617

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	✓	✗	100.000	20/10 A	24 V	5



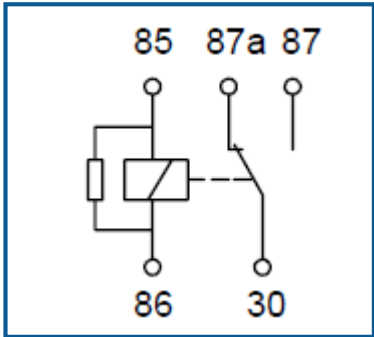
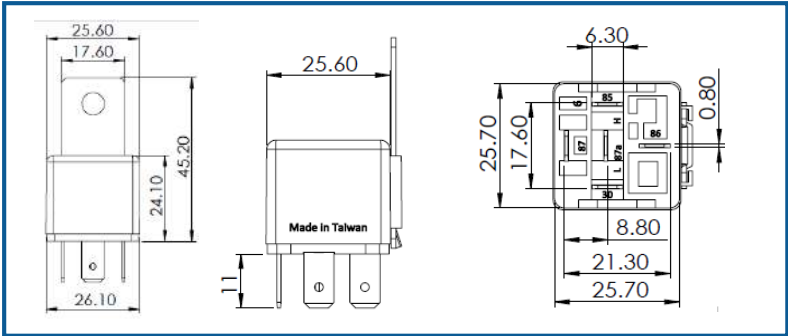
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Mini Relays 24 V, 30 A

0 986 AH0 622

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	✓	✗	100.000	30 A	24 V	5



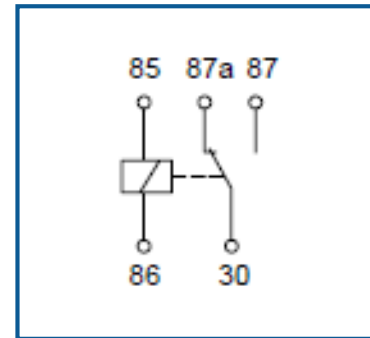
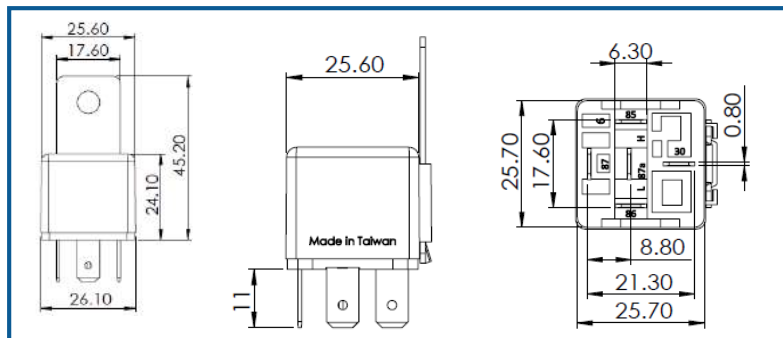
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Mini Relays 12 V, 30 A

0 986 AH0 625

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	100.000	30 A	12 V	5



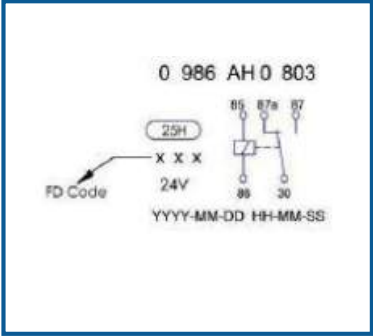
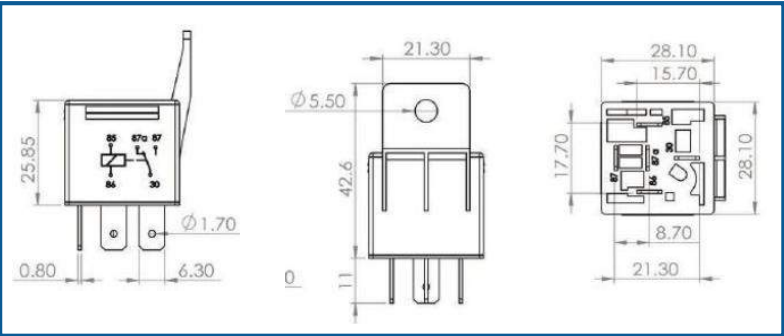
[Back to general overview](#)

Mini Relays 24 V, 20 A

0 986 AH0 803

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
✓	X	X	100.000	20 A	24 V	5



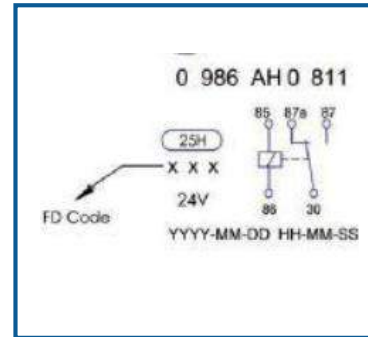
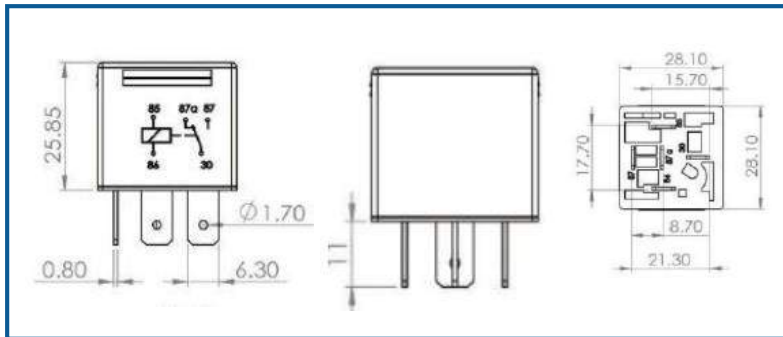
[Back to general overview](#)

Mini Relays 24 V, 20 A

0 986 AH0 811

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	X	100.000	20 A	24 V	5



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Starter Relays

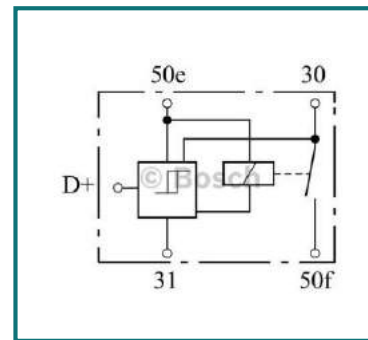
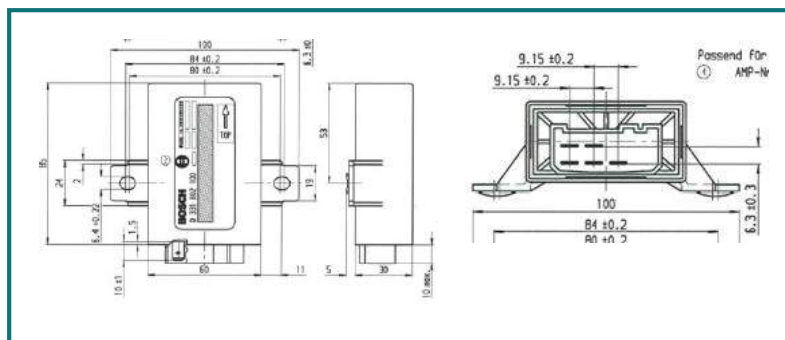
Slide 105 to 106

Overview

Starter Relays 12 V, 30 A

0 331 802 100

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	✗	✗	-	30 A	12 V

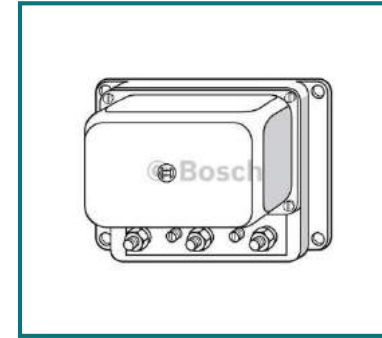
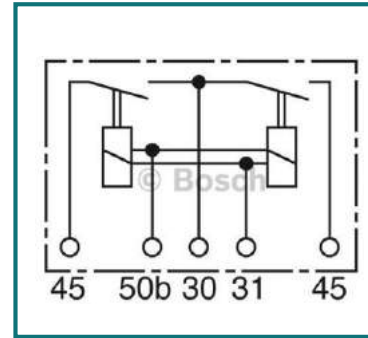
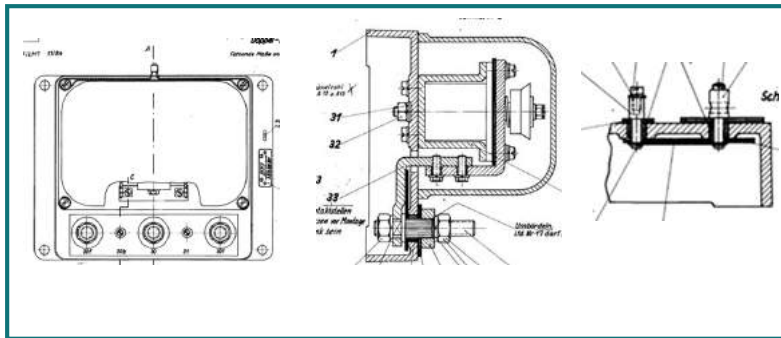


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Double-Starting Relay 24 V

0 333 500 001

Mounting bracket	Resistor	Diode	Life durability	Dimensions	Voltage
X	X	X	-	232 x 180 x 45	24 V



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Battery Relays

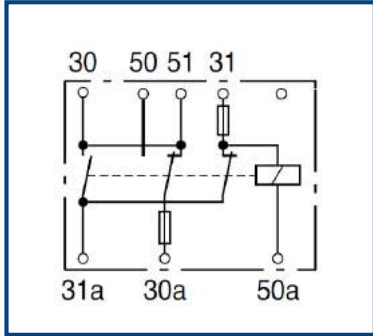
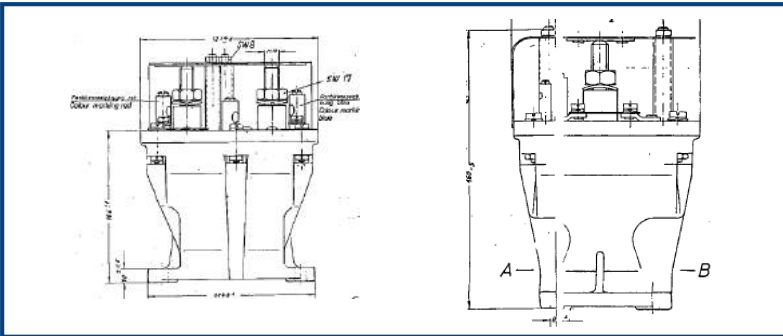
Slide 108 to 112

[Overview](#)

12V, 75 A

Change over	Normal close	Normal open
✓		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
X	X	X	20.000	75 A	12 V



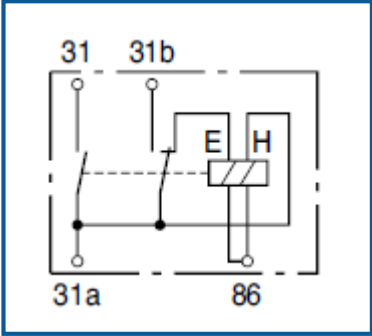
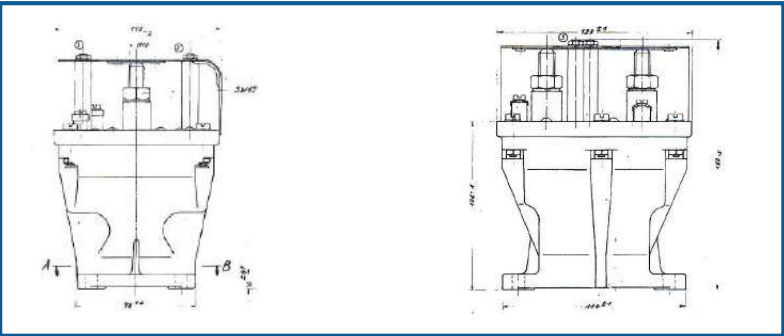
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Battery Relays 12V, 60 A

0 333 301 007

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
X	X	X	20.000	60 A	12 V



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24V, 200 A

Change over

**Normal
close**

**Normal
open**

Mounting bracket

Resistor

Diode

Life durability

Current

Voltage



20.000

200 A

24 V



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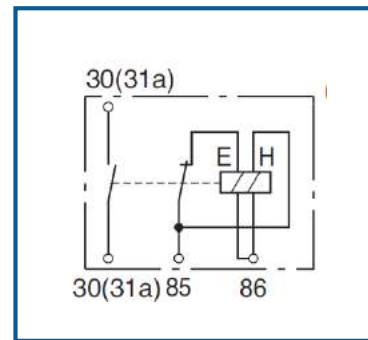
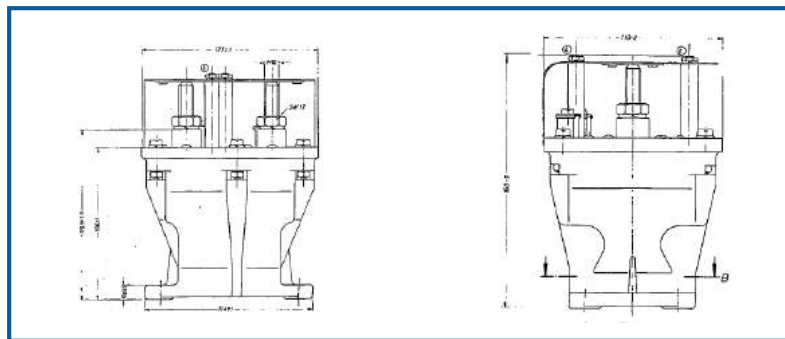


Battery Relays 24V, 300 A

0 333 301 010

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
X	X	X	20.000	300 A	24 V



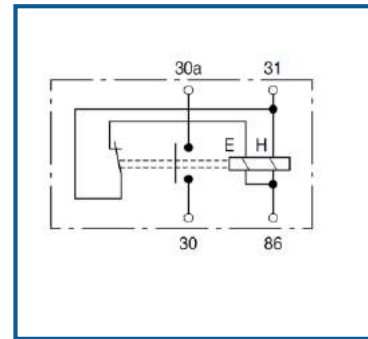
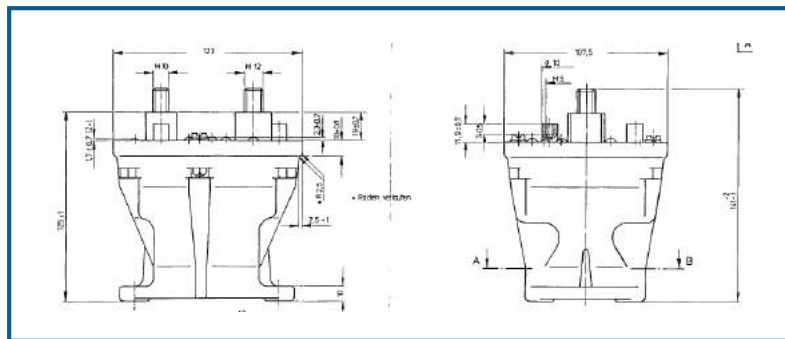
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Battery Relays 24V, 200 A

0 333 301 015

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
X	X	X	20.000	200 A	24 V



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Lamp Relays

Slide 114 to 116

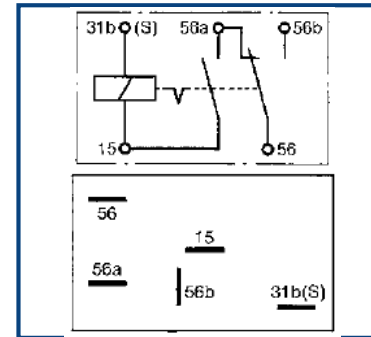
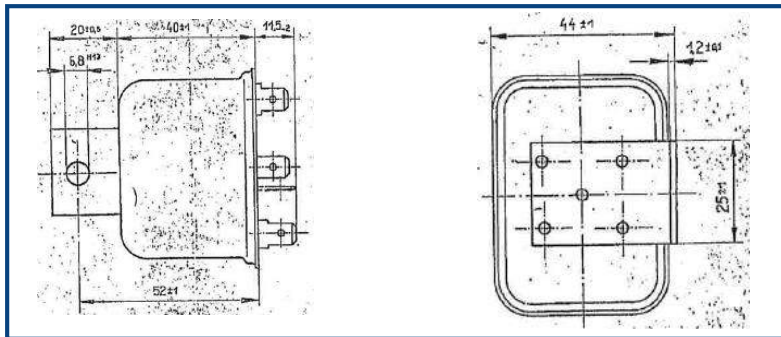
Overview

Headlamp Relays 12V

0 332 515 009

Change over	Normal close	Normal open
✓		✓

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	X	X	-	150 W	12 V



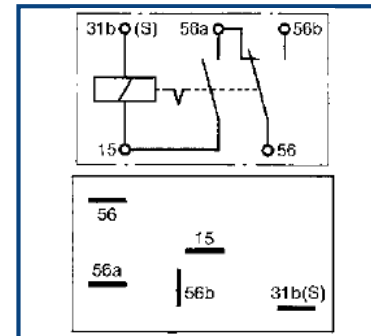
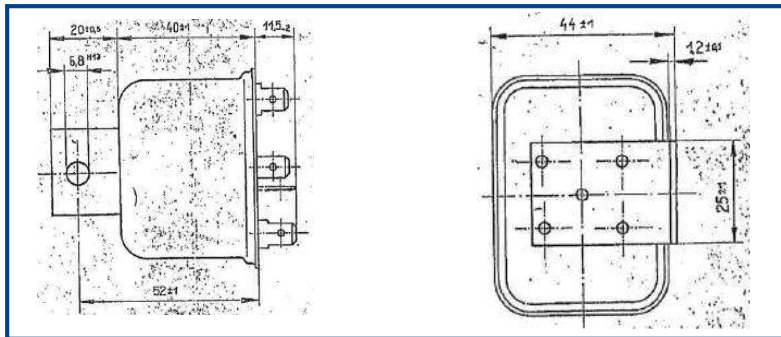
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Headlamp Relays 24V

0 332 515 012

Change over	Normal close	Normal open
✓		✓

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	X	X	-	150 W	24 V



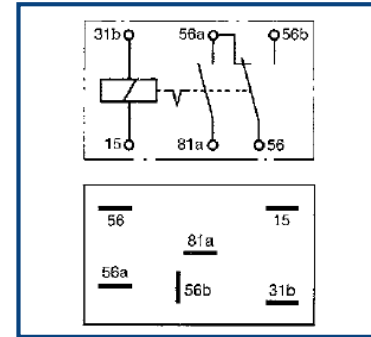
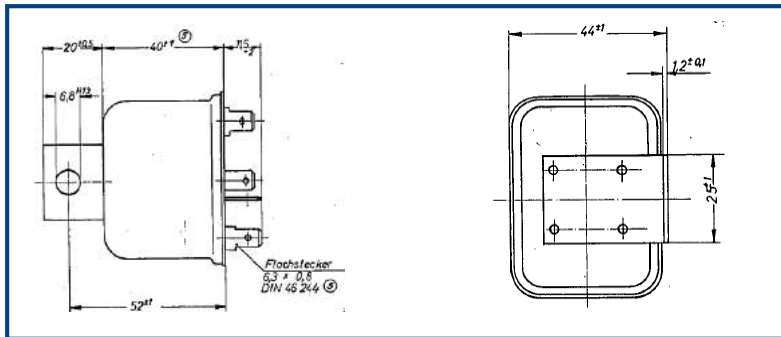
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Headlamp Relays 12V

0 332 515 022

Change over	Normal close	Normal open
✓		✓

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	X	X	-	150 W	12 V



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Power Relays

Slide 118 to 139

Overview

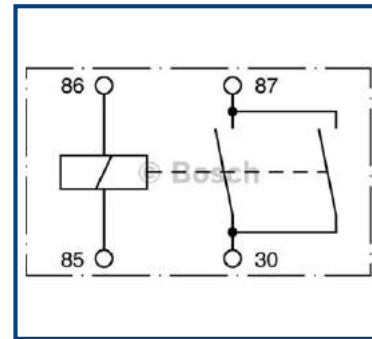
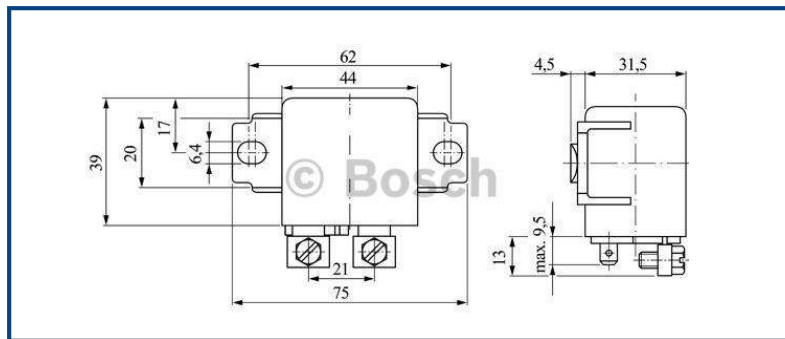
Power Relays 12 V, 75 A

0 332 002 150

Change over	Normal close	Normal open
		✓

Pre contact

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	✗	✗	125.000	75 A	12 V



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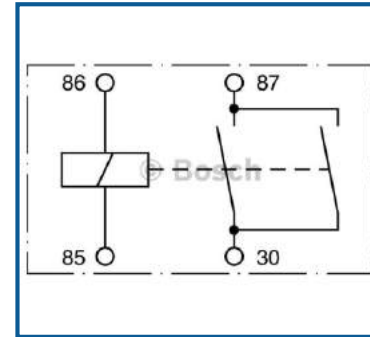
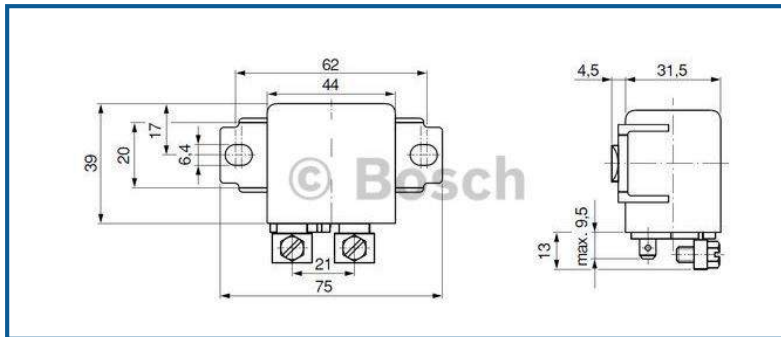
Power Relays 12 V, 75 A

0 332 002 155

Change over	Normal close	Normal open
		✓

Pre contact

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
X	X	X	100.000	75 A	12 V



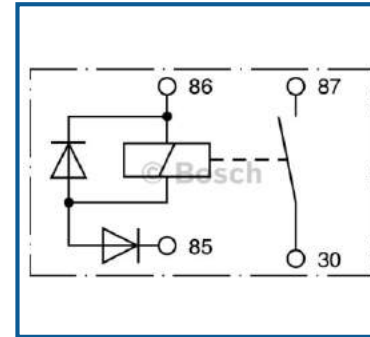
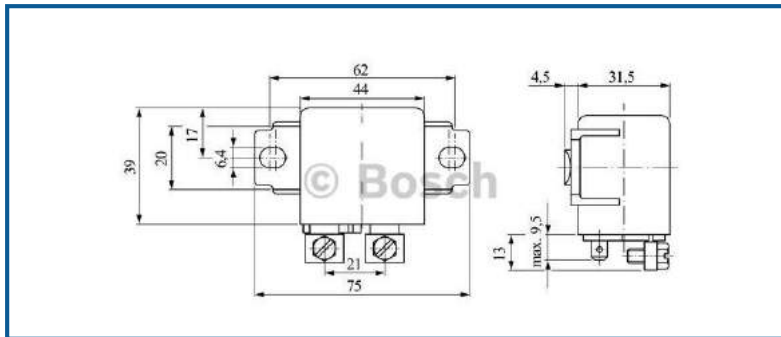
[Back to general overview](#)

Power Relays 12 V, 75 A

0 332 002 156

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	✗	✓	100.000	75 A	12 V



[Back to general overview](#)

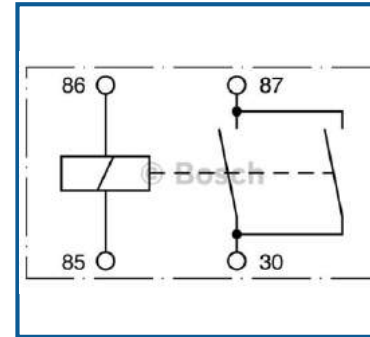
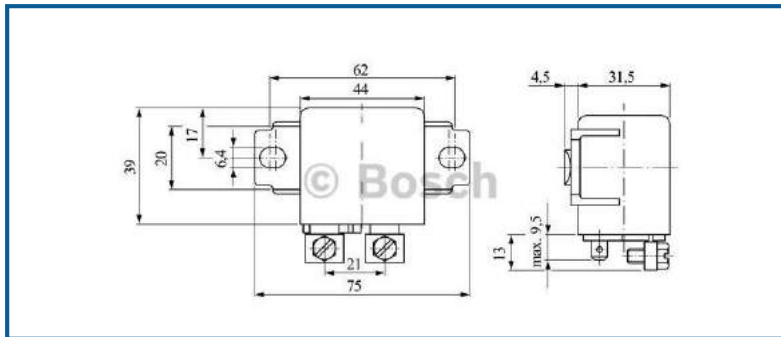
Power Relays 12 V, 75 A

0 332 002 160

Change over	Normal close	Normal open
		✓

Pre contact

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	✗	✗	100.000	75 A	12 V



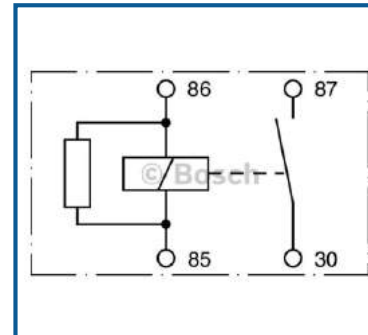
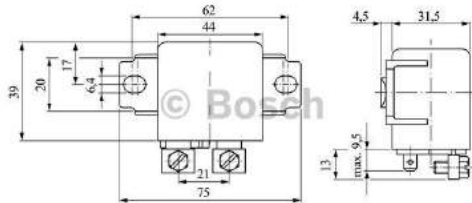
[Back to general overview](#)

Power Relays 12 V, 75 A

0 332 002 161

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
X	✓	X	125.000	75 A	12 V



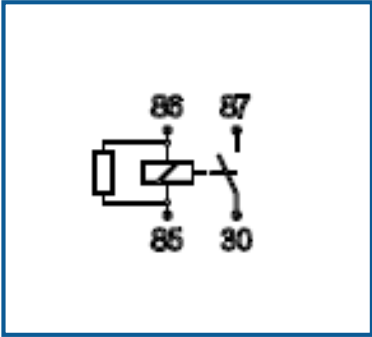
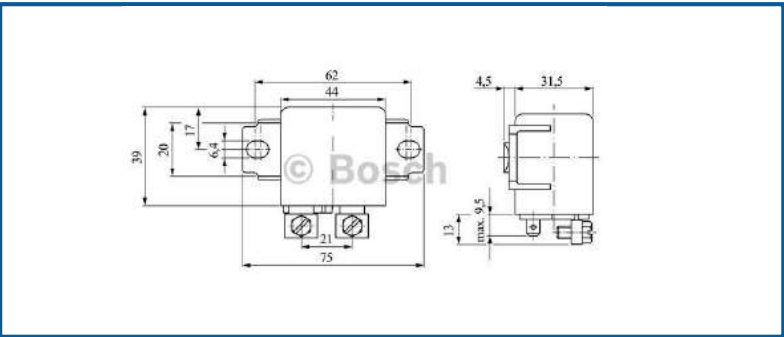
[Back to general overview](#)

Power Relays 12 V, 75 A

0 332 002 168

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	✓	X	75.000	75 A	12 V

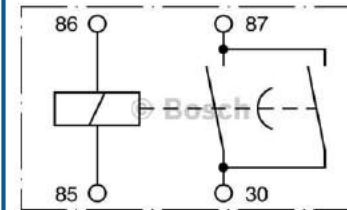
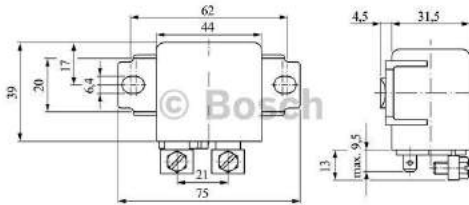


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Power Relays 24 V, 50 A

Pre contact

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	X	X	100.000	50 A	24 V



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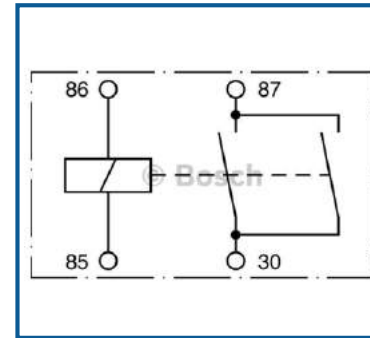
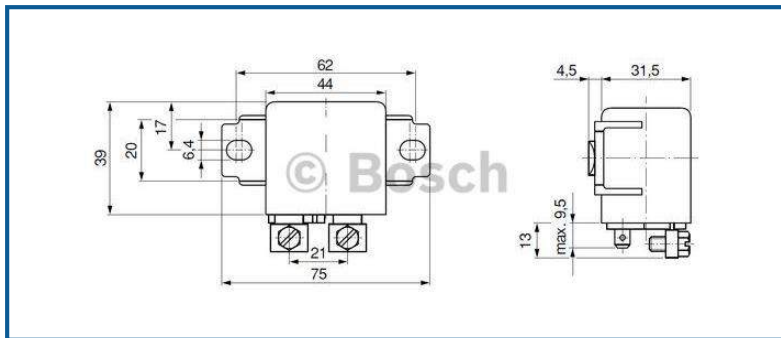
Power Relays 24 V, 50 A

0 332 002 255

Change over	Normal close	Normal open
		✓

Pre contact

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	✗	✗	100.000	50 A	24 V



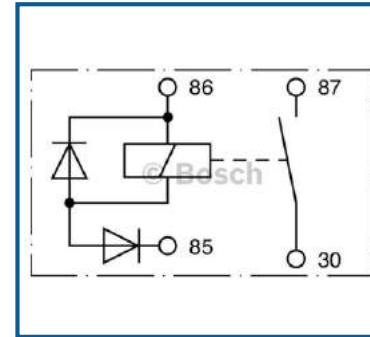
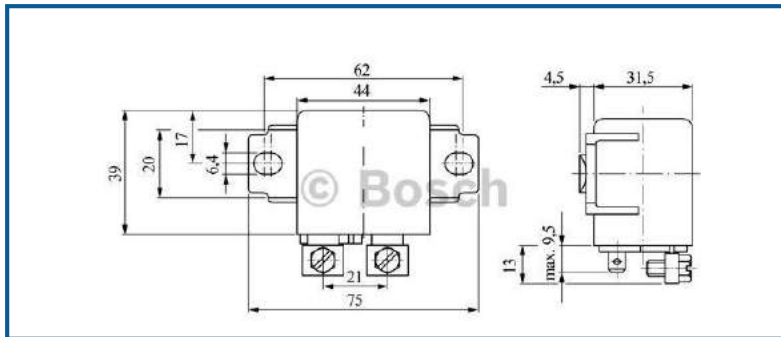
[Back to general overview](#)

Power Relays 24 V, 50 A

0 332 002 256

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	✗	✓	50.000	50 A	24 V



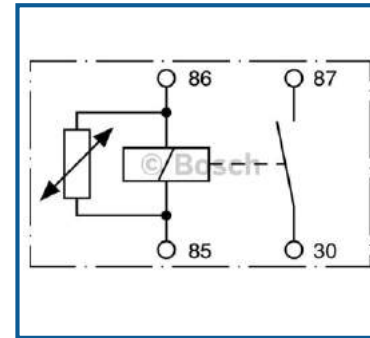
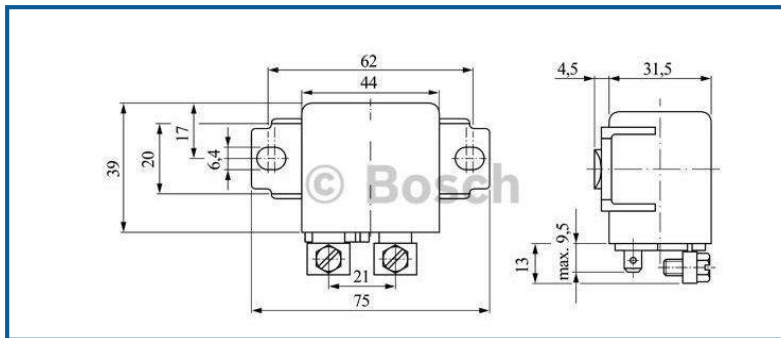
[Back to general overview](#)

Power Relays 24 V, 50 A

0 332 002 257

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	✓	✗	50.000	50 A	24 V



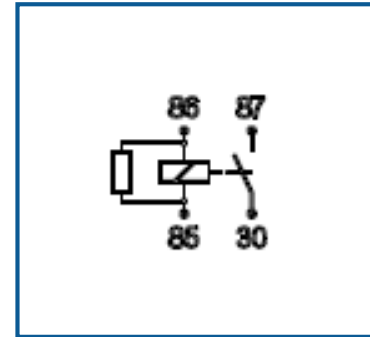
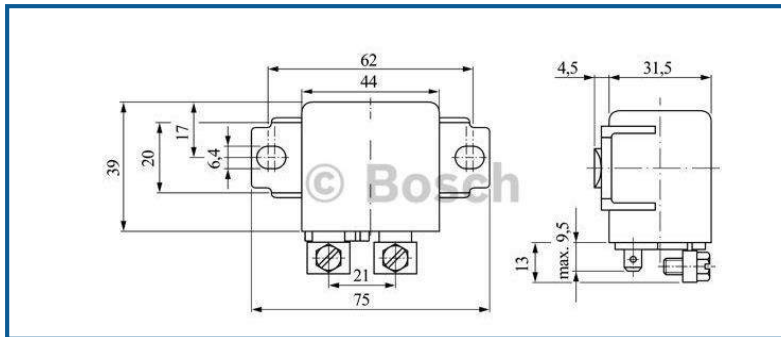
[Back to general overview](#)

Power Relays 24 V, 50 A

0 332 002 258

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	✓	✗	50.000	50 A	24 V



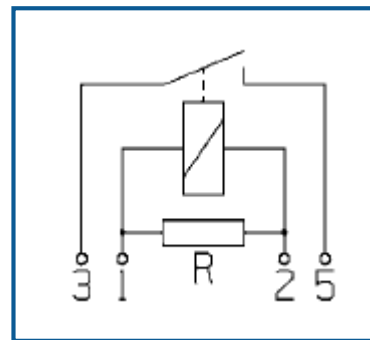
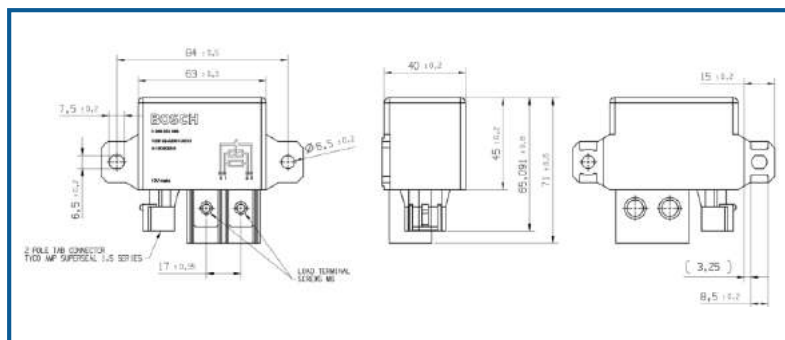
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Power Relays 12 V, 150 A

0 986 332 086

Change over	Normal close	Normal open
		✓

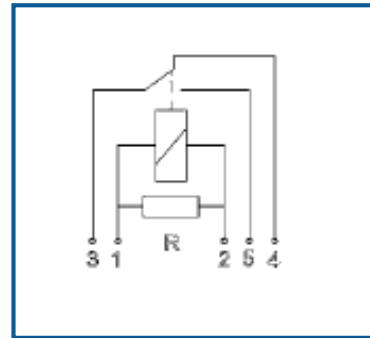
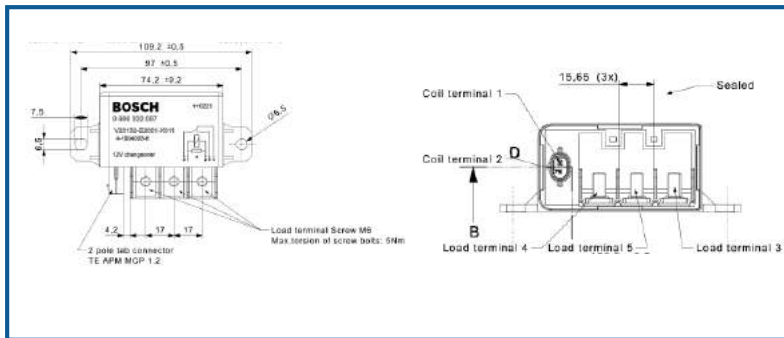
Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	✓	✗	100.000	150 A	12 V



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Power Relays 12 V, 150 A

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	✓	✗	100.000	150 A	12 V



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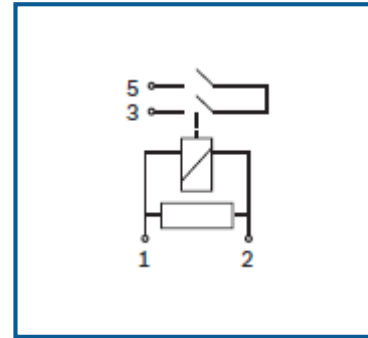
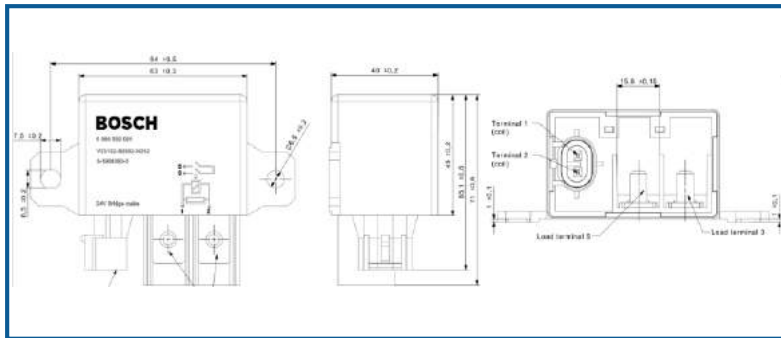
Power Relays 24 V, 150 A

0 986 332 091

Change over	Normal close	Normal open
		✓

2 x make contact

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	✓	X	100.000	150 A	24 V



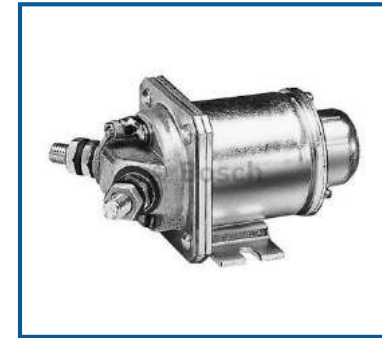
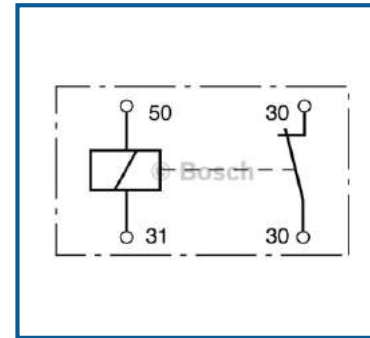
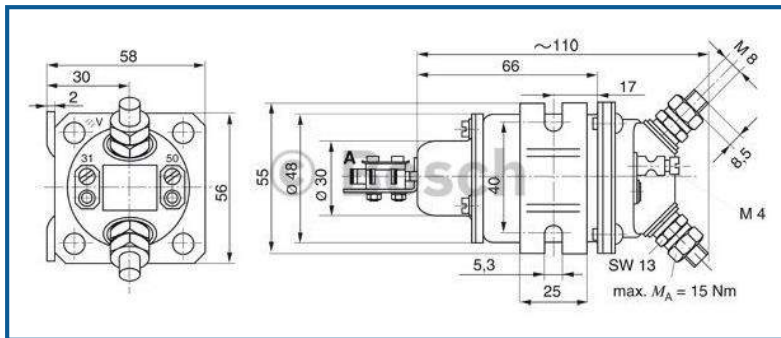
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Power Relay 12 V, 80 A

0 333 006 004

Change over	Normal close	Normal open
	✓	

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	-	-	100.000	12 V	80 A



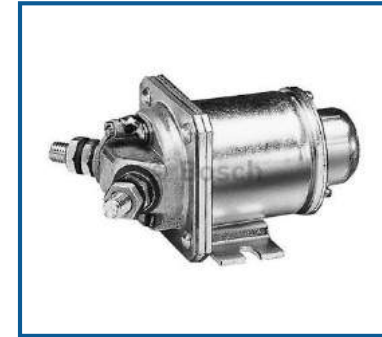
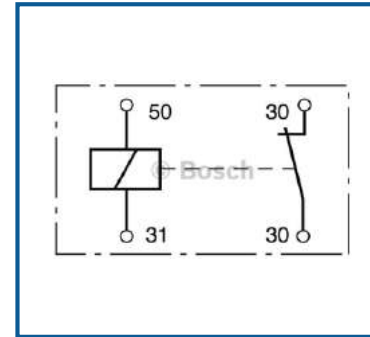
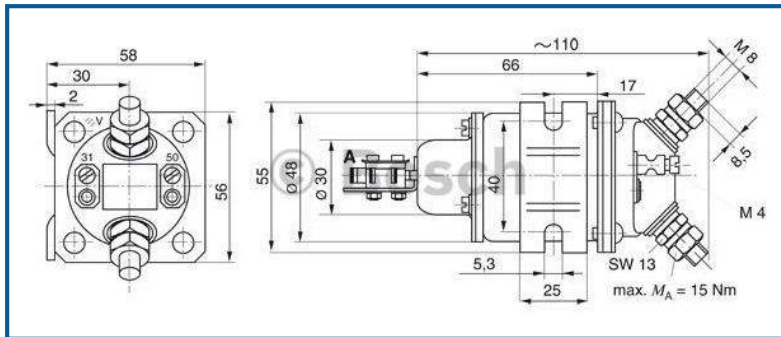
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Power Relay 24 V, 80 A

0 333 006 006

Change over	Normal close	Normal open
	✓	

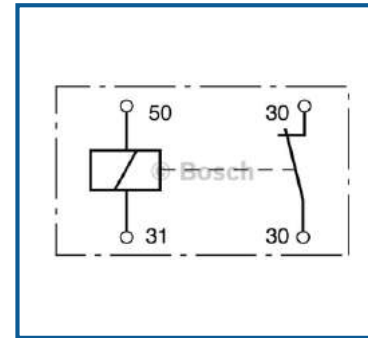
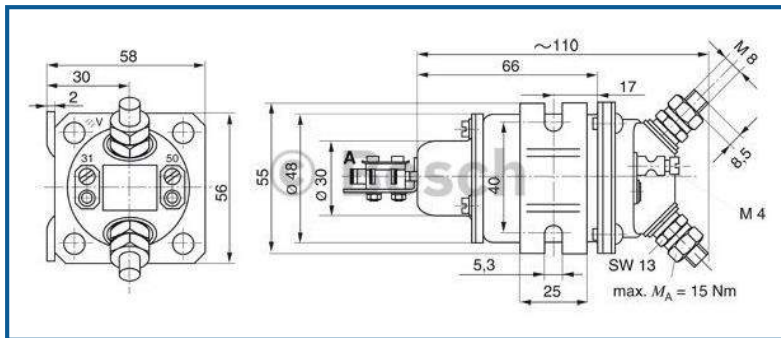
Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	-	-	100.000	24 V	80 A



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Power Relay 24 V, 100 A
0 333 006 008

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	-	-	100.000	24 V	100 A



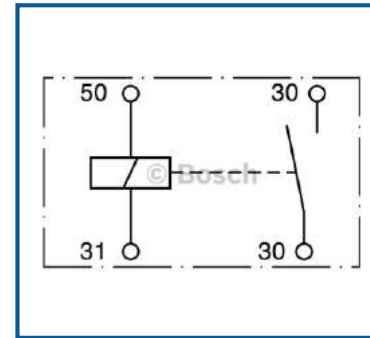
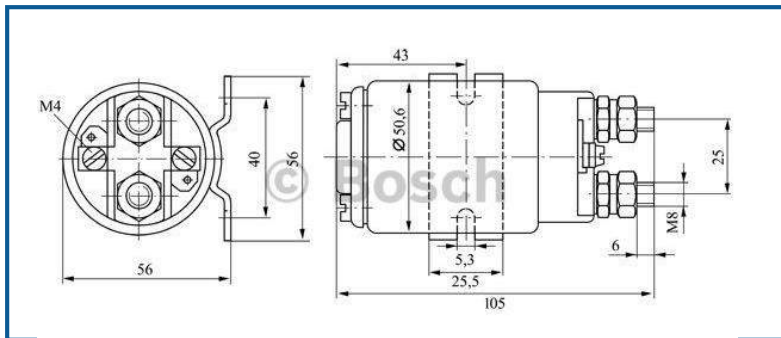
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Power Relay 24 V, 150 A

0 333 009 002

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	-	-	100.000	24 V	150 A



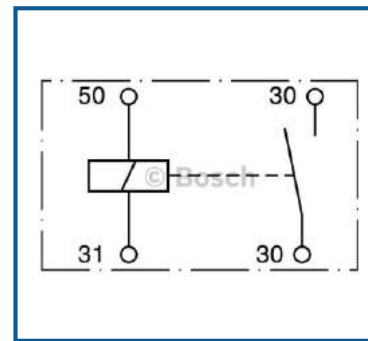
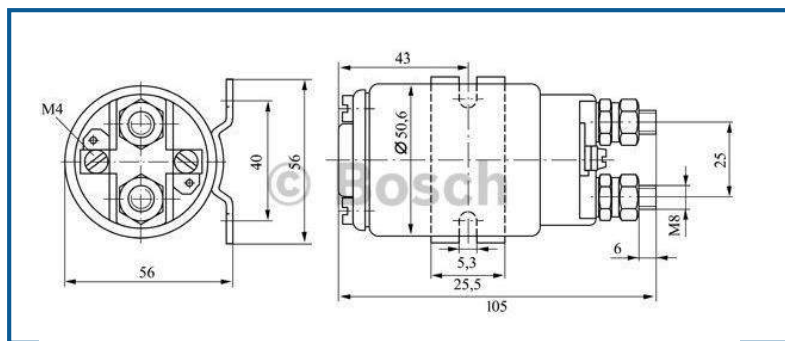
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Power Relay 12 V, 150 A

0 333 009 004

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	-	-	100.000	12 V	150 A



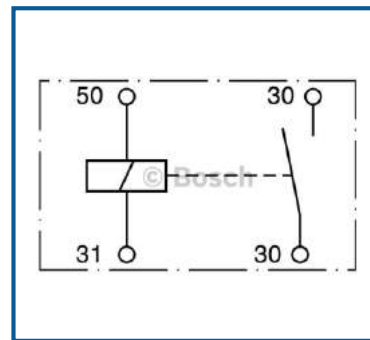
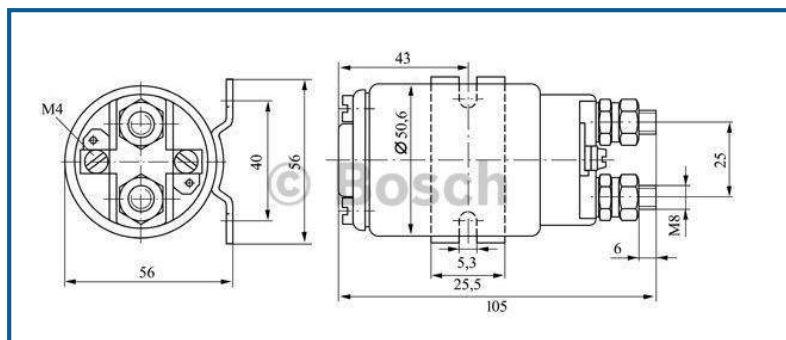
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Power Relay 24 V, 150 A

0 333 009 005

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	-	-	100.000	24 V	150 A



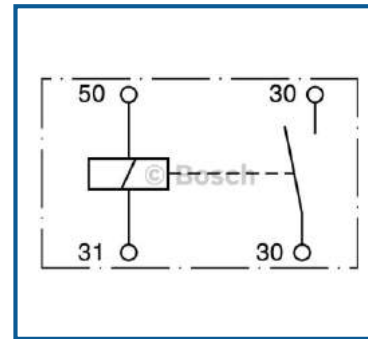
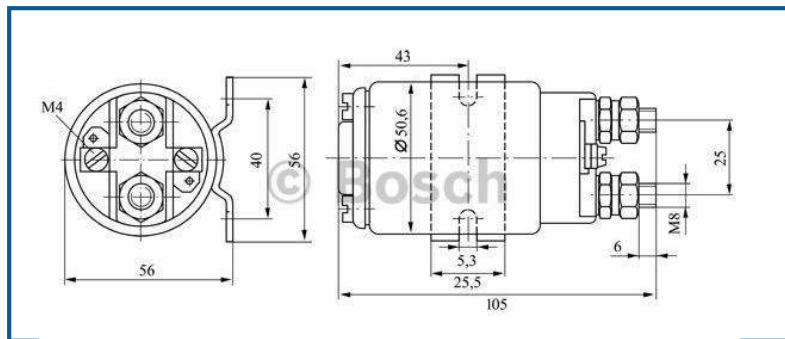
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Power Relay 24 V, 150 A

0 333 009 009

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	-	-	100.000	24 V	150 A



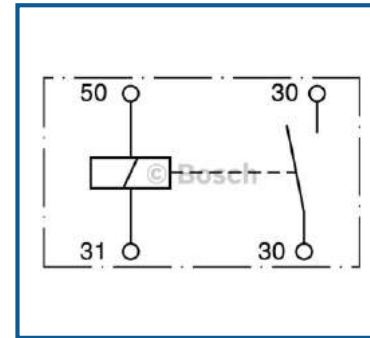
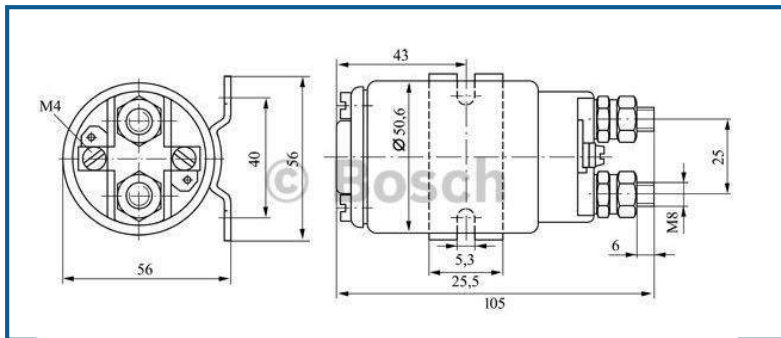
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Power Relay 12 V, 150 A

0 333 009 010

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	-	-	100.000	12 V	150 A



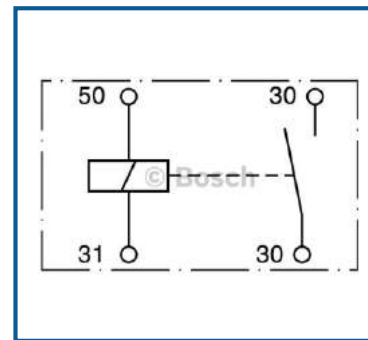
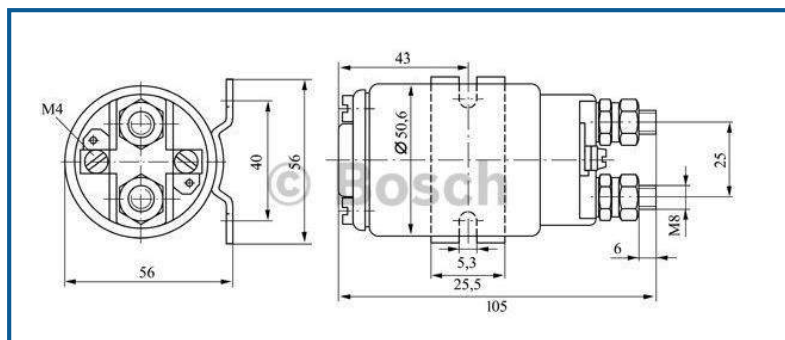
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Power Relay 24 V, 150 A

0 333 009 011

Change over	Normal close	Normal open
		✓

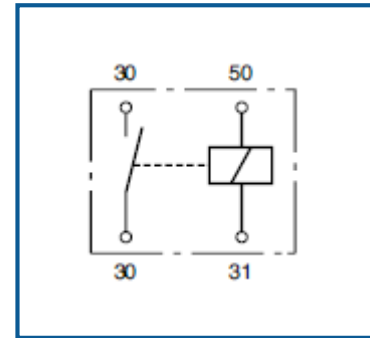
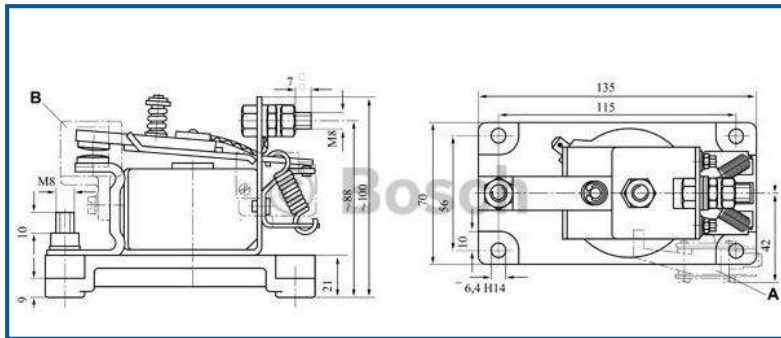
Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	-	-	100.000	24 V	150 A



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Power Relay 80 V, 230 A

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	-	-	100.000	230 A	80 V



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Sockets

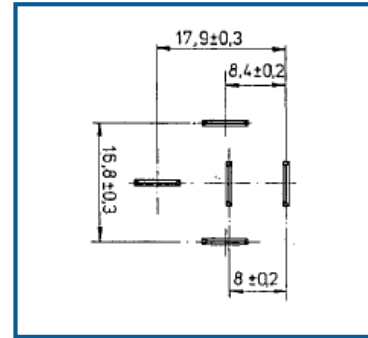
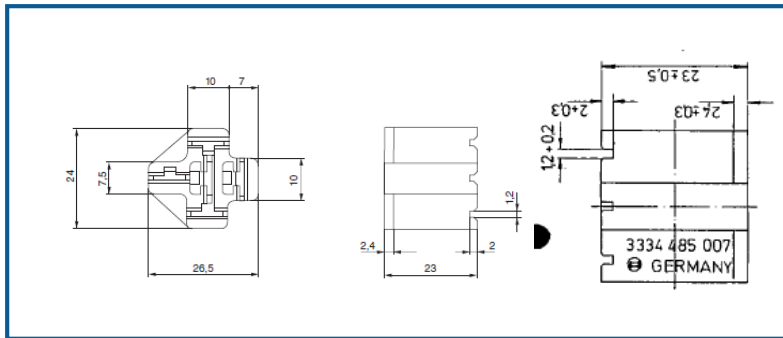
Slide 141 to 147

Overview

Socket

3 334 485 007

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
X	X	X	-	-	12 V/24 V

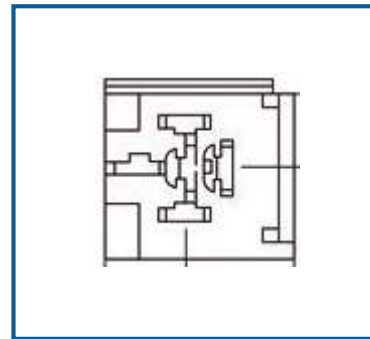
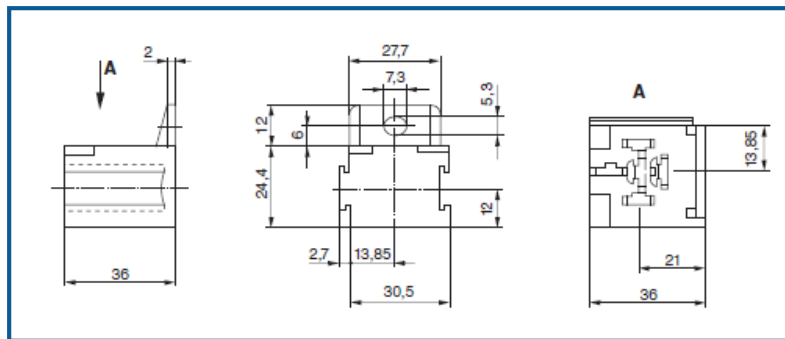


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Socket

3 334 485 008

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	✗	✗	-	-	12V/24V

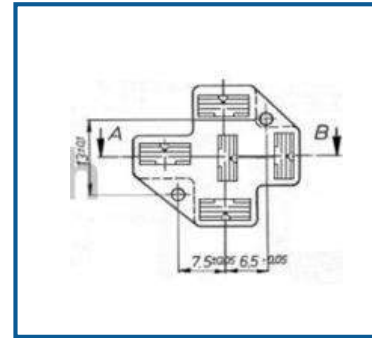
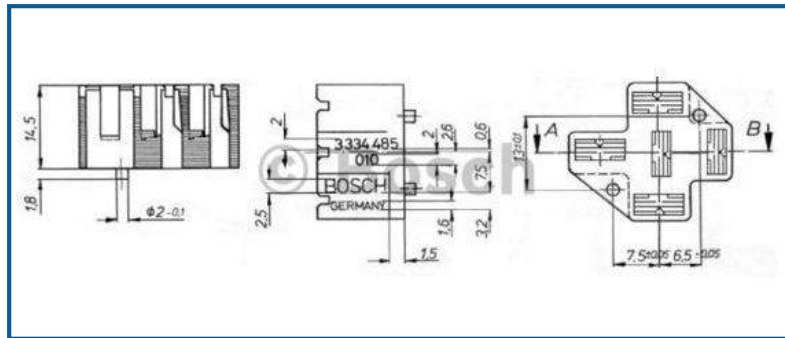


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Socket

3 334 485 010

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
X	X	X	-	-	12/24 V

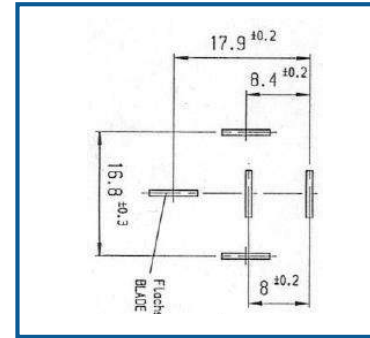
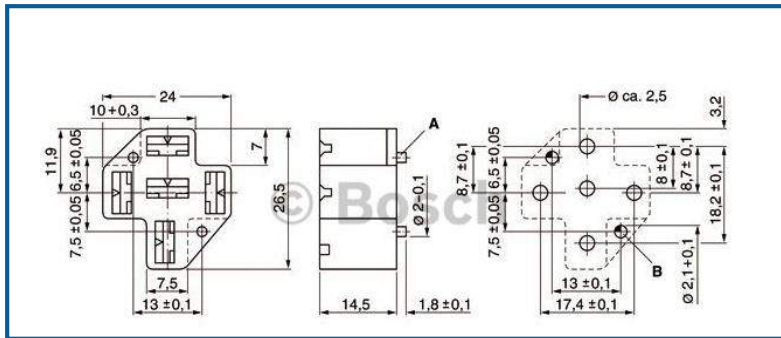


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Socket

3 334 485 041

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
X	X	X	-	-	12/24 V

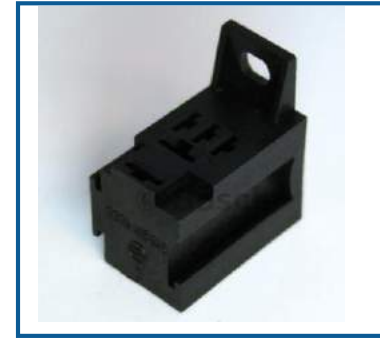
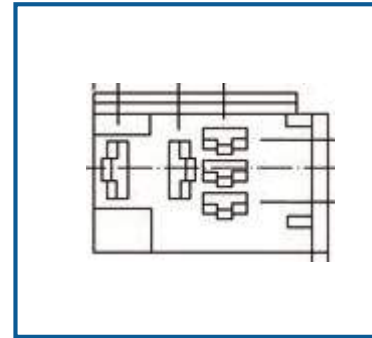
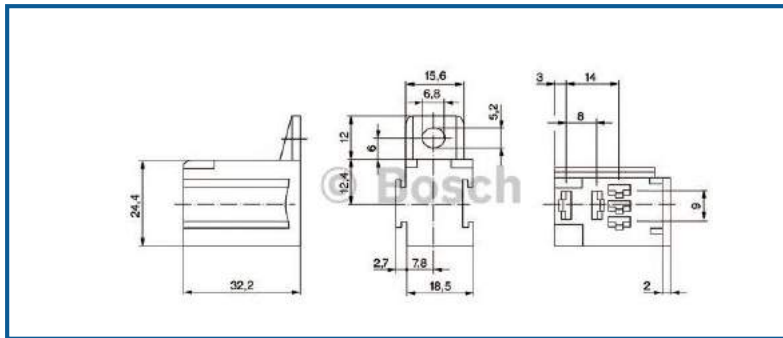


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Socket

3 334 485 045

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	✗	✗	-	-	12/24 V

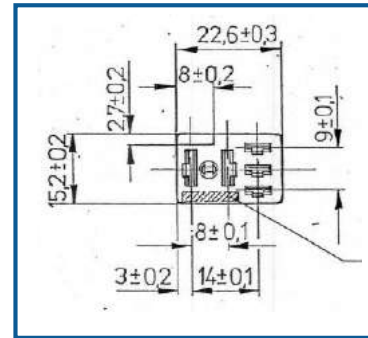
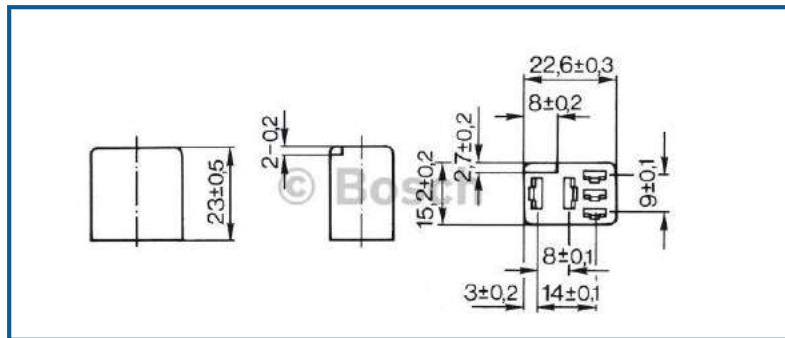


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Socket

3 334 485 046

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
X	X	X	-	-	12/24 V

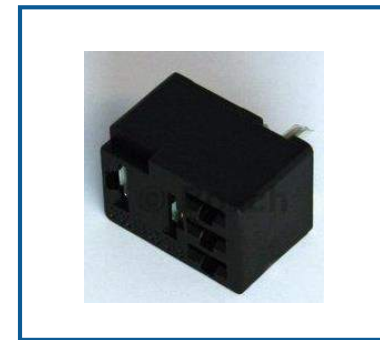
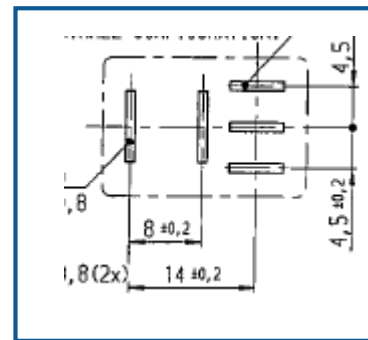
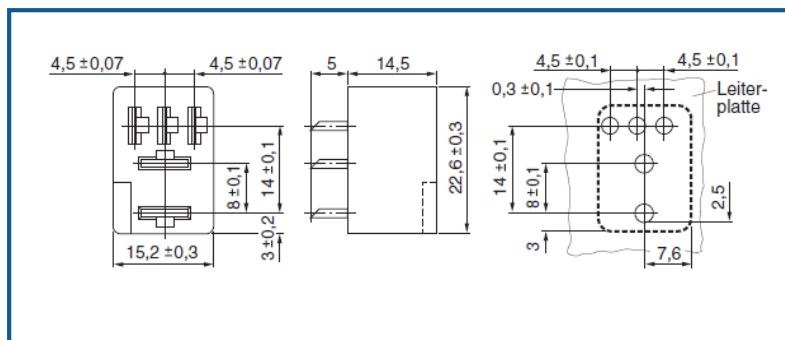


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Socket

3 334 485 049

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
X	X	X	-	-	12/24 V



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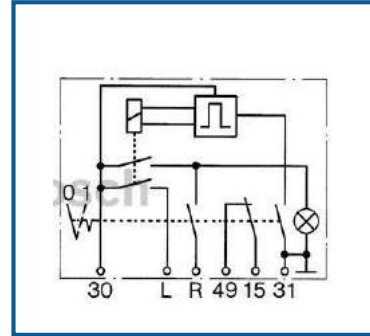
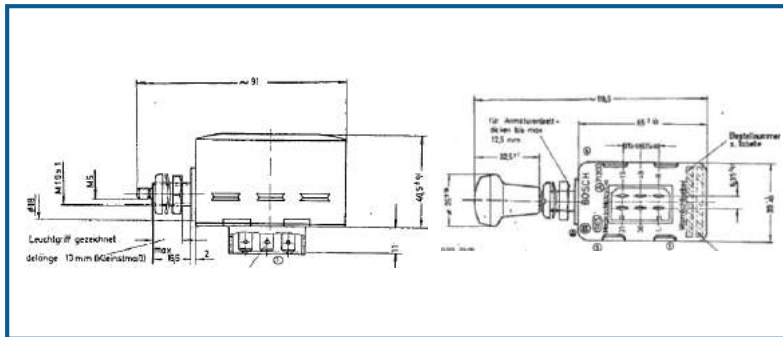
Hazard-warning- signal flasher

Slide 149 to 151

Overview

Hazard-warning-signal flasher 24V
0 336 900 000

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
X	X	X	-	8x 21 W	24 V

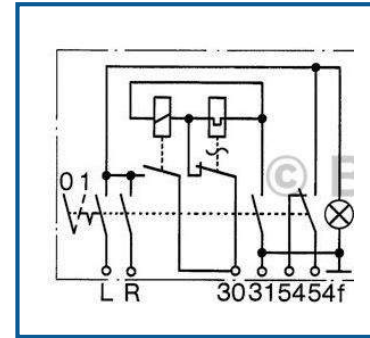
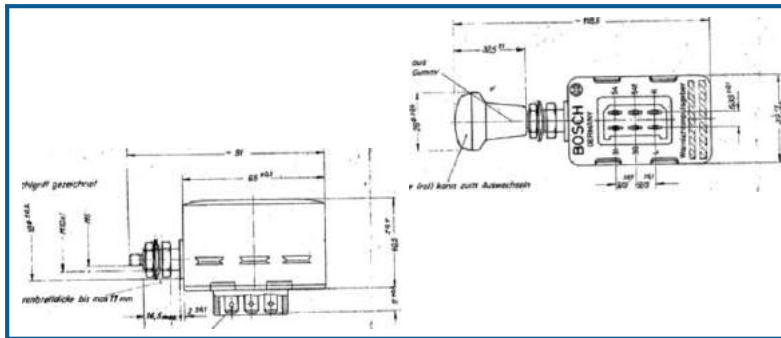


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Hazard-warning-signal flasher 12V

0 336 851 008

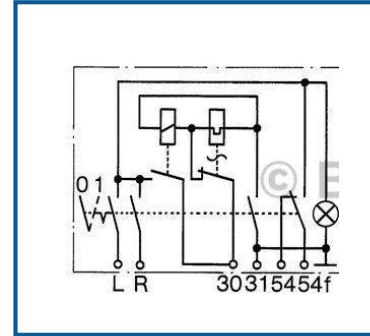
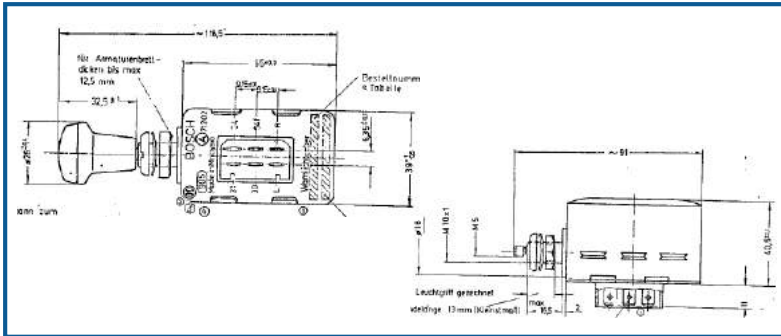
Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
X	X	X	-	8x 21 W	12 V



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Hazard-warning-signal flasher 12V
0 336 851 004

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
X	X	X	-	8x 21 W	12 V



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Hot-wire Flashers

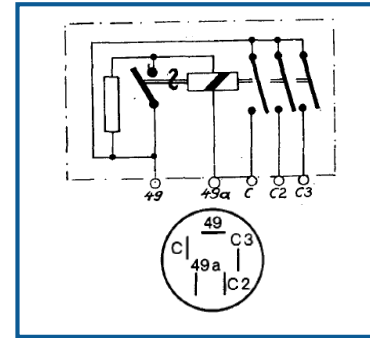
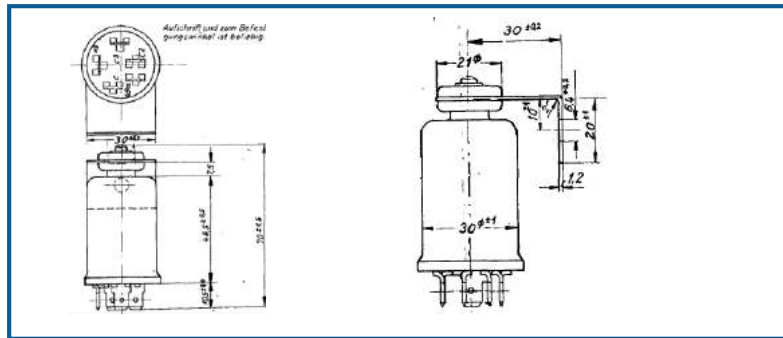
Slide 153 to 166

Overview

Turn-Signal Flasher 12 V

0 336 208 001

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	✓	✗	-	2+1+ 1x21 W	12 V

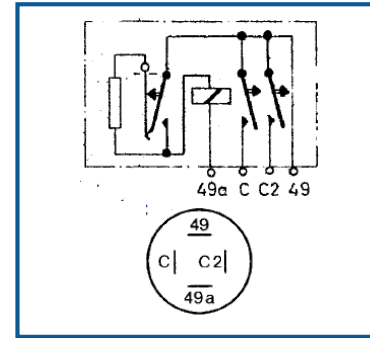
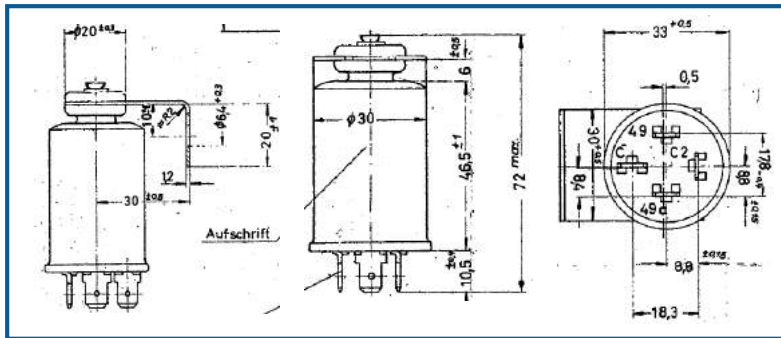


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Turn-Signal Flasher 12 V

0 336 207 006

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	✓	✗	-	2+ 1x21 W	12 V

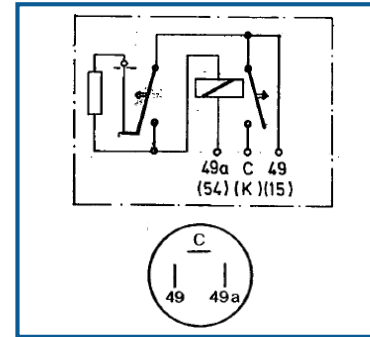
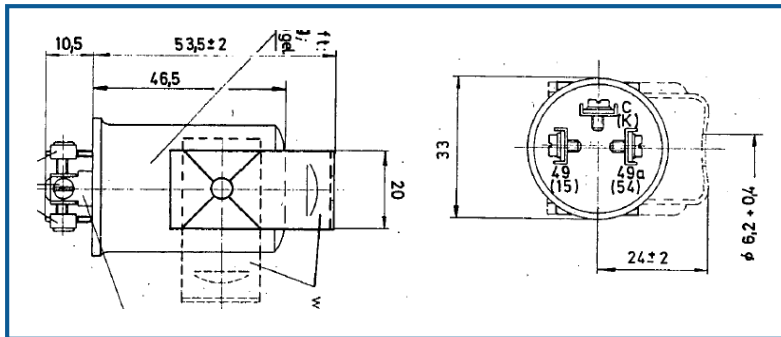


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Turn-Signal Flasher 6 V

0 336 206 004

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	✓	✗	-	2x 21 W	12 V

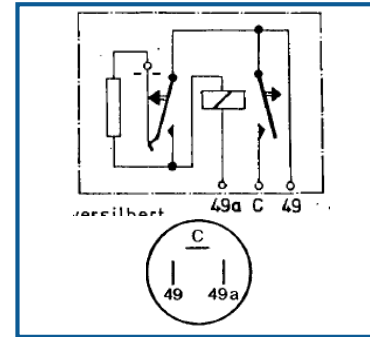
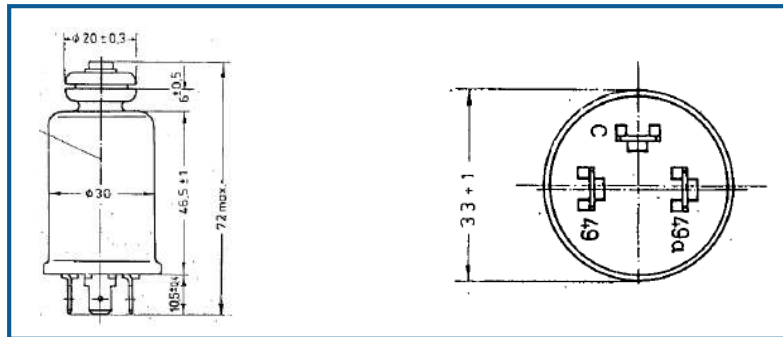


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Turn-Signal Flasher 6 V

0 336 206 003

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	✓	✗	-	2 x 21W	6 V

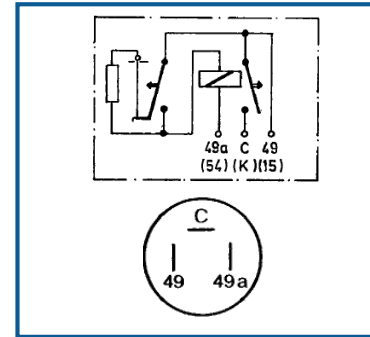
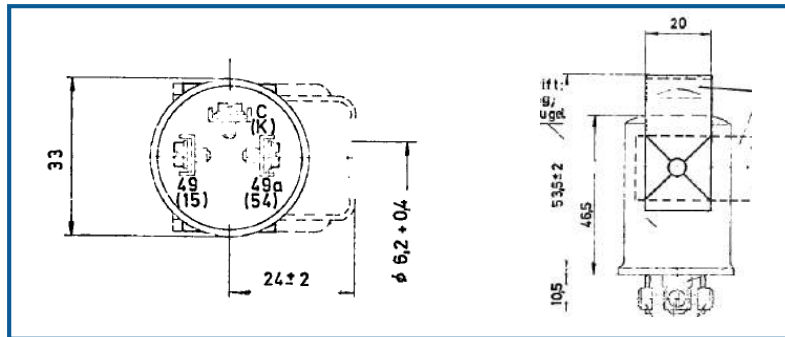


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Turn-Signal Flasher 6 V

0 336 203 006

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
X	✓	X	-	2 x 18W	6 V

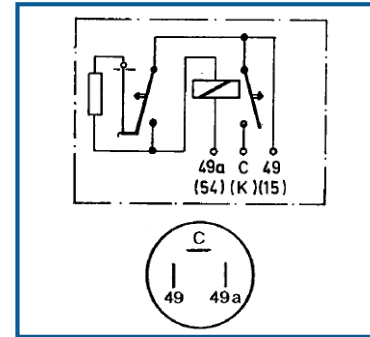
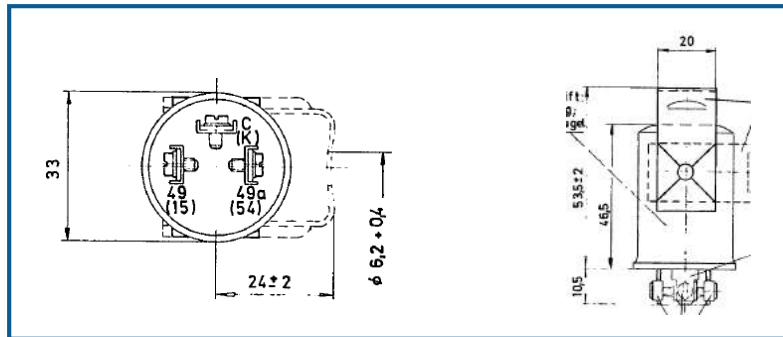


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Turn-Signal Flasher 12 V

0 336 203 005

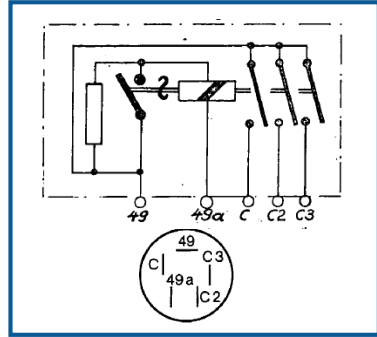
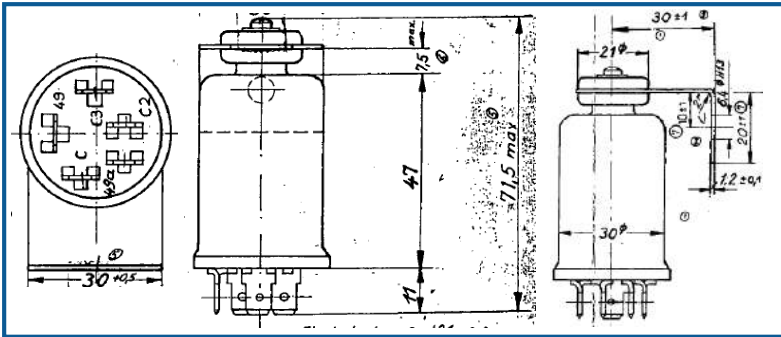
Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	✓	✗	-	2x 18W	12 V



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Turn-Signal Flasher 12 V
0 336 202 001

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	✓	X	-	2+1+ 1x 18W	12 V

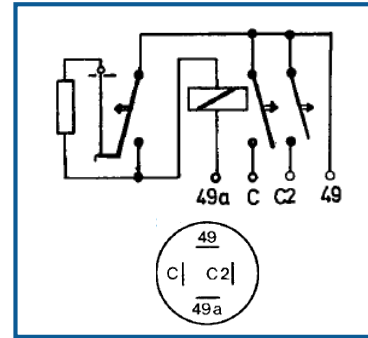
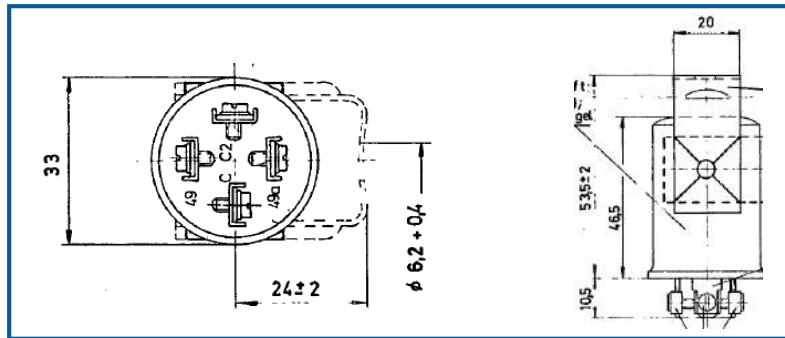


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Turn-Signal Flasher 24 V

0 336 200 051

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	✓	✗	-	2+ 1x 18W	24 V

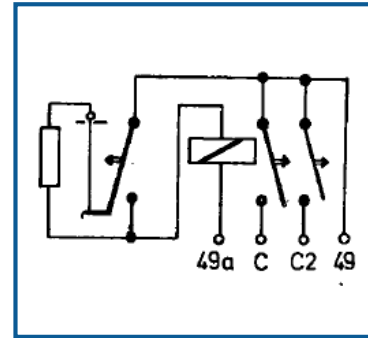
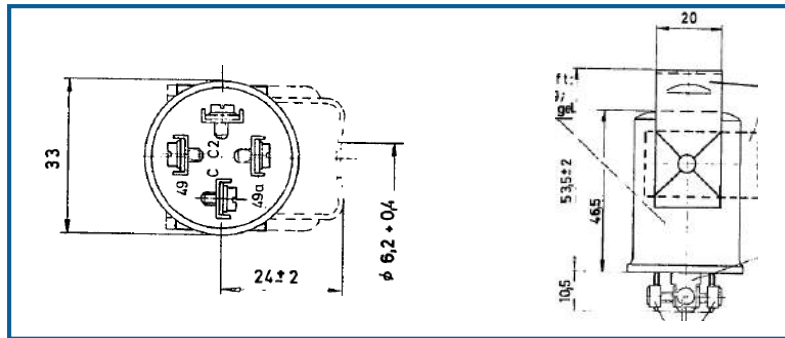


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Turn-Signal Flasher 12 V

0 336 200 049

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	✓	✗	-	2+ 1x 18 W	12 V

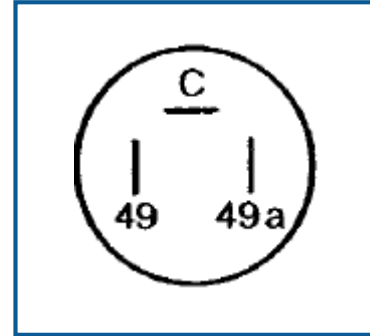
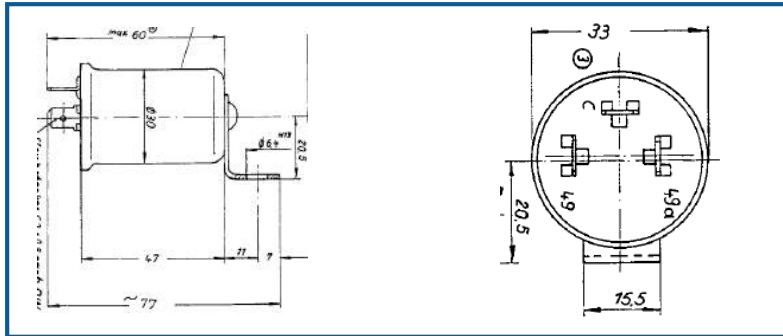


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Turn-Signal Flasher 24 V

0 336 200 047

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	✗	✗	-	3x 18 W	24 V

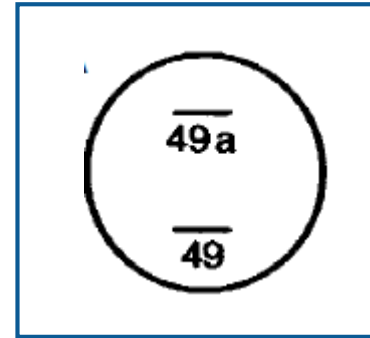
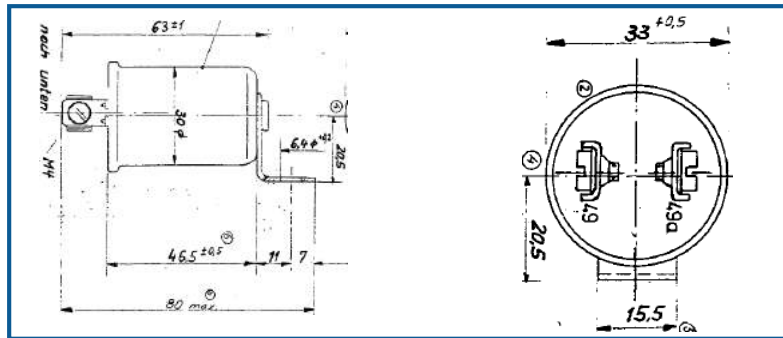


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Turn-Signal Flasher 6 V

0 336 101 004

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	✗	✗	-	1x 15W/18W	6 V

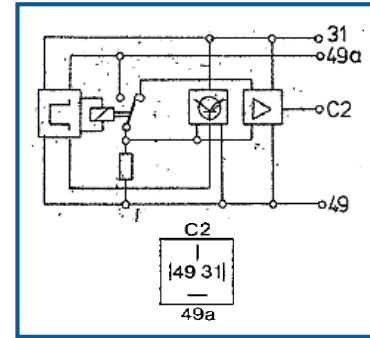
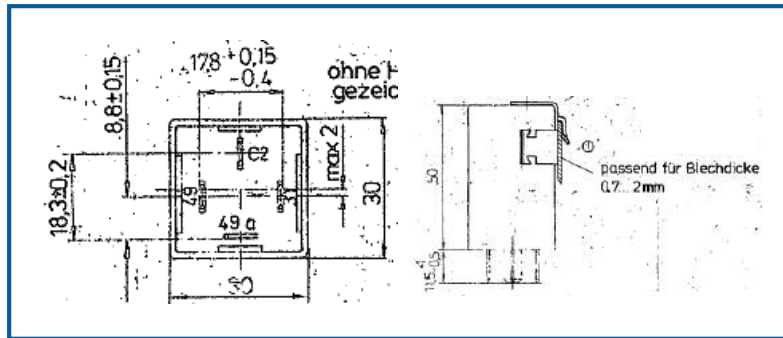


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Electronic hazard-warning and turn-signal flashers 12 V

0 335 200 041

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	✓	✓	-	2+ 1(6) x 21 W	12 V

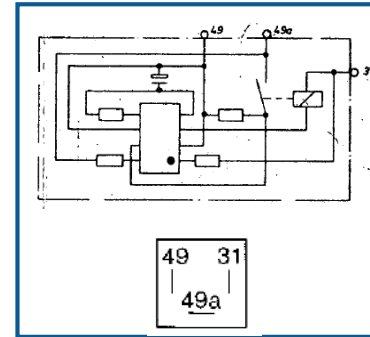
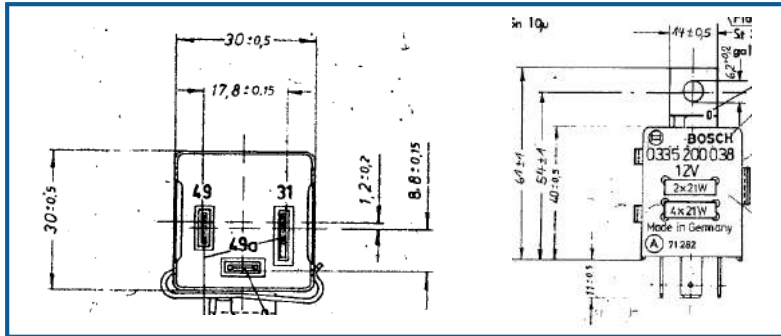


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Electronic hazard-warning and turn-signal flashers 12 V

0 335 200 038

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	✓	✗	-	2 (4) x 21 W + 0-4 W	12 V

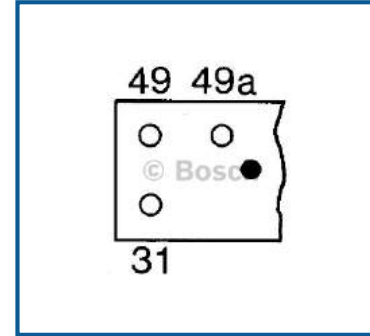
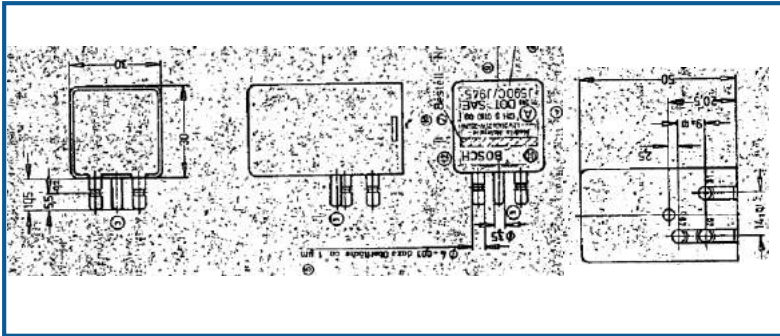


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Electronic hazard-warning and turn-signal flashers 12 V

0 335 200 007

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
X	w/w	w/w	-	2(4) x 21W + 2W	12 V



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Others

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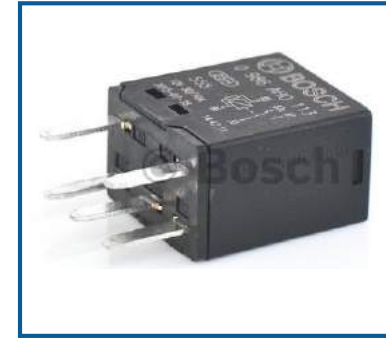
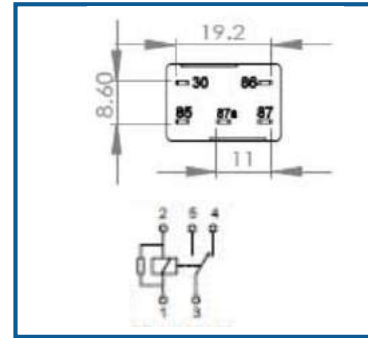
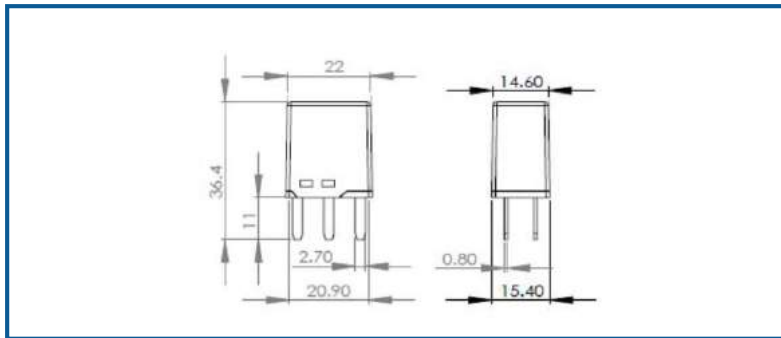
Overview

Micro Relay (GM Footprint) 12 V,30/10 A

0 986 AH0 113

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	30/10 A	12 V	5



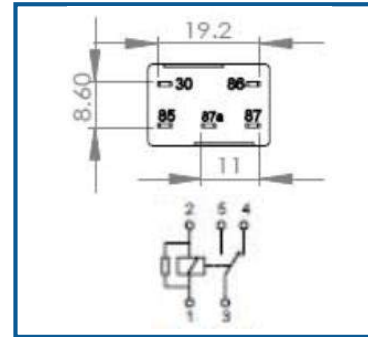
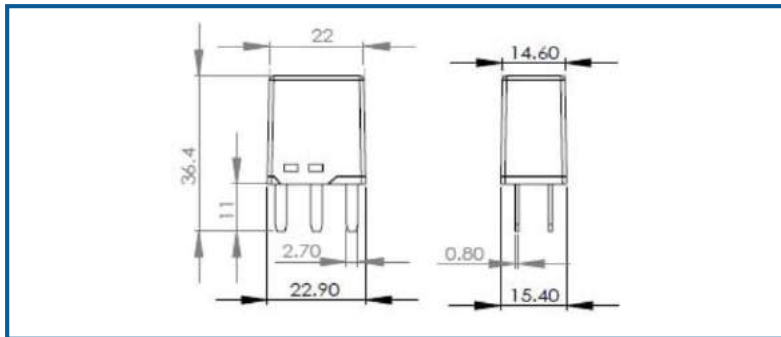
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Micro Relay (GM Footprint) 24 V, 10/5 A

0 986 AH0 114

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	10/5 A	24 V	5



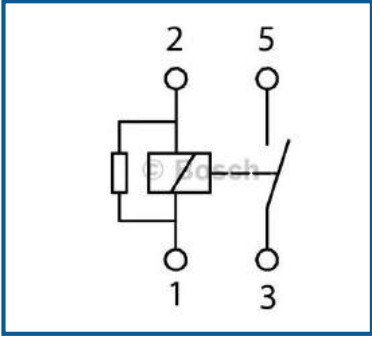
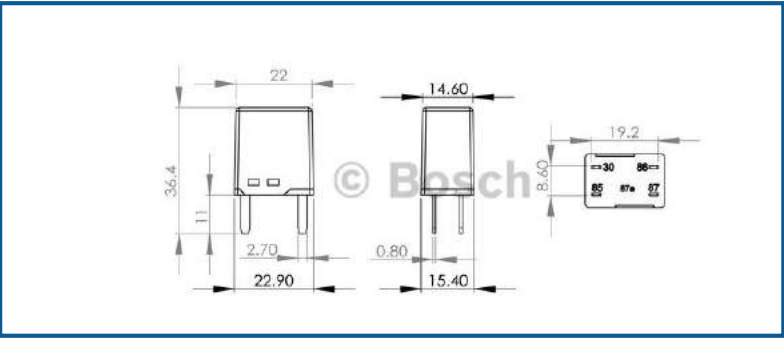
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Micro Relay (GM Footprint) 12 V, 30 A

0 986 AH0 115

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	30 A	12 V	4



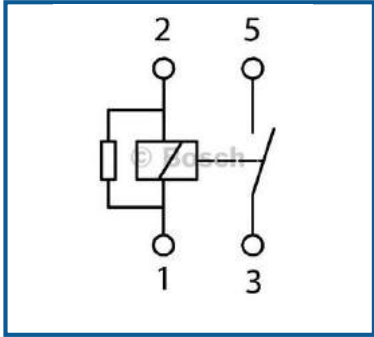
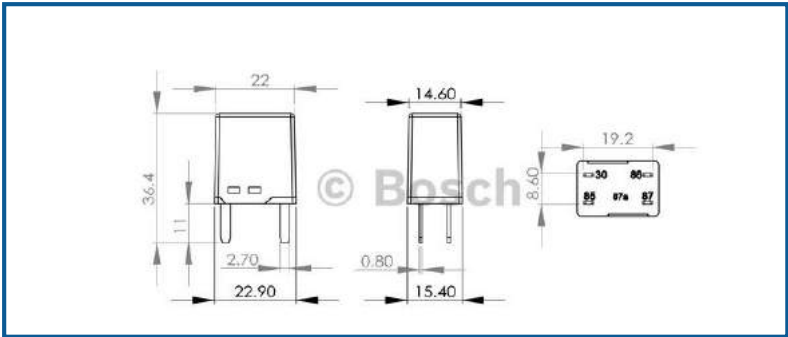
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Micro Relay (GM Footprint) 24 V, 10 A

0 986 AH0 116

Change over	Normal close	Normal open
		✓

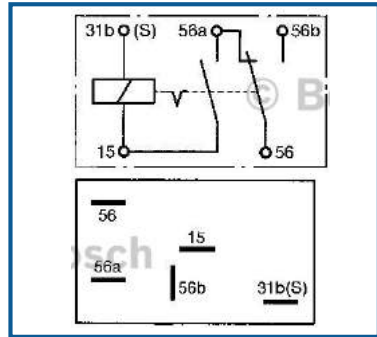
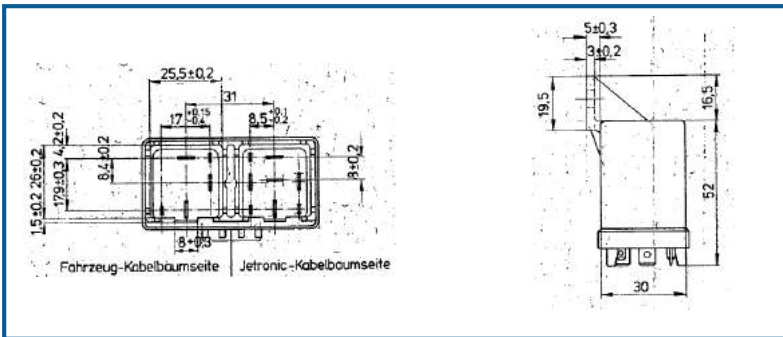
Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	✓	X	100.000	10 A	24 V	4



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Fuel pump Relays 12V, 15 A

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	-	-	-	15 A	12 V

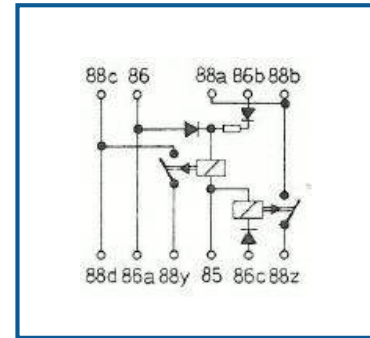
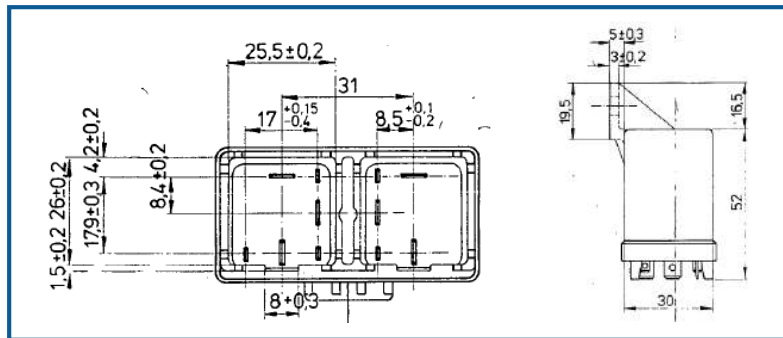


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Fuel pump Relays 12V, 15 A

0 332 514 120

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
✓	-	-	-	15 A	12 V



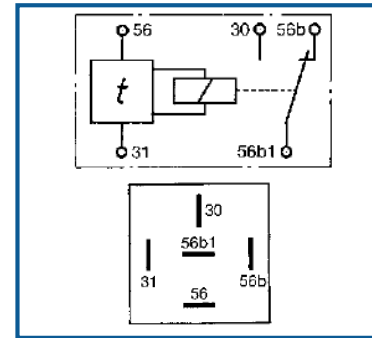
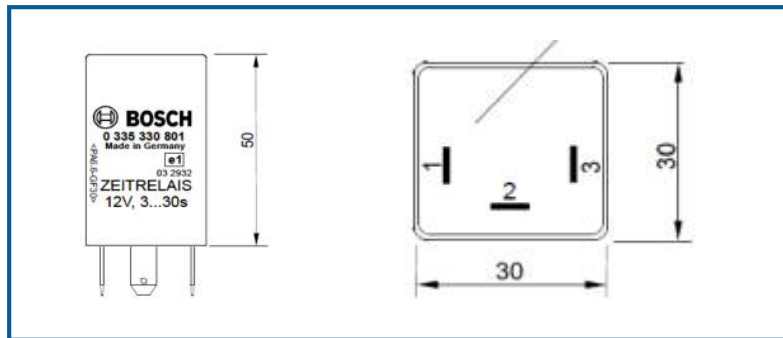
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Time-lag Relay 12 V, 10A / 15A

0 335 330 801

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
X	-	-	-	10 A / 15 A	12 V



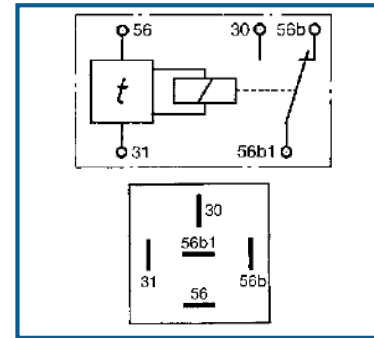
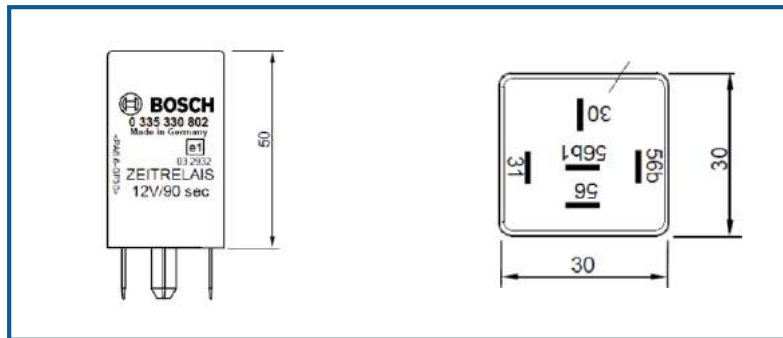
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Time-lag Relay 12 V, 20 A / 25 A

0 335 330 802

Change over	Normal close	Normal open
✓		

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage
X	-	-	-	20 A / 25 A	12 V

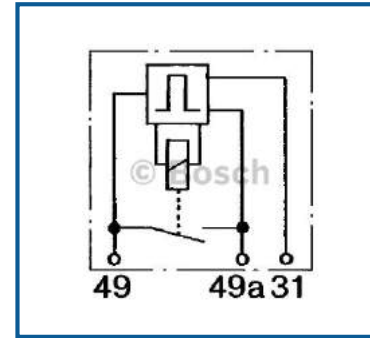
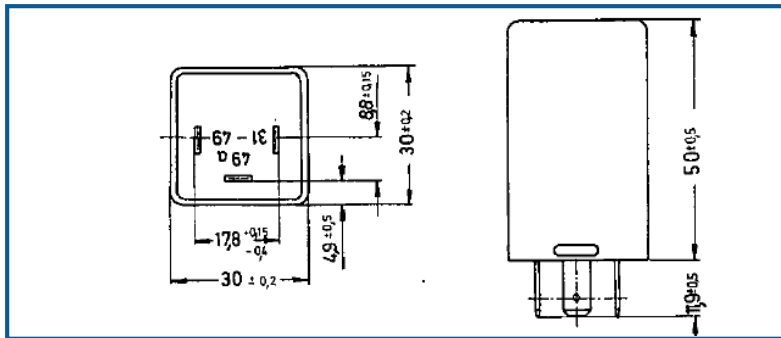


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Pulse Generator 24 V

0 335 323 003

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
X	-	-	-	50 W	24 V

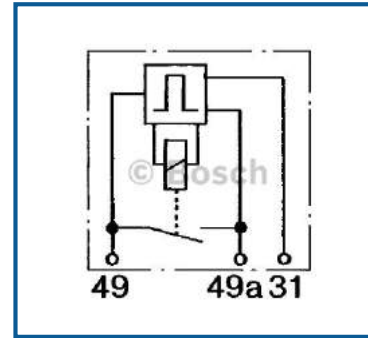
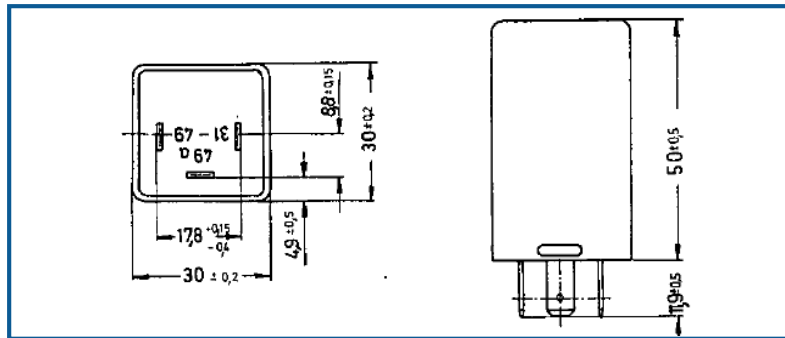


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Pulse Generator 24 V

0 335 323 001

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
X	-	-	-	50 W	24 V



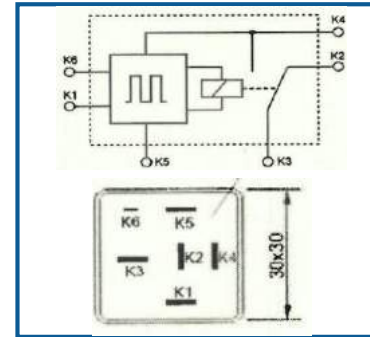
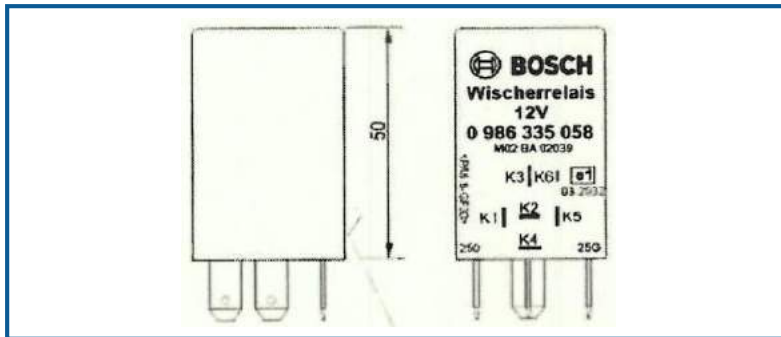
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Pulse Generator 12 V, 20 A

0 986 335 058

Change over	Normal close	Normal open
		✓

Mounting bracket	Resistor	Diode	Life durability	Current	Voltage	Number of Pins
X	X	X	75.000	20 A	12 V	6

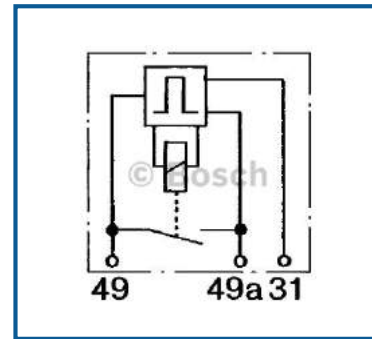
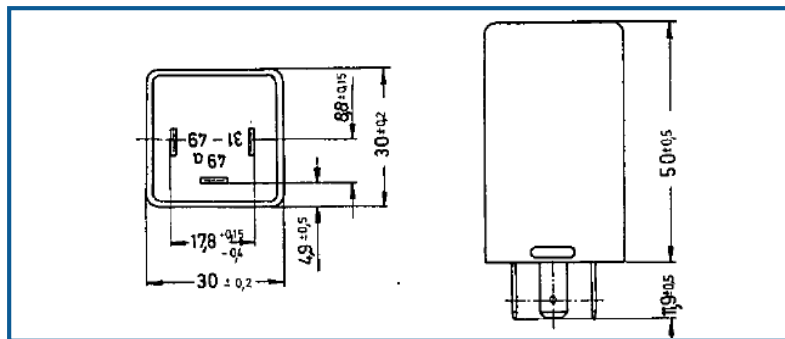


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Pulse Generator 12 V

0 335 322 001

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
X	-	-	-	50 W	12 V

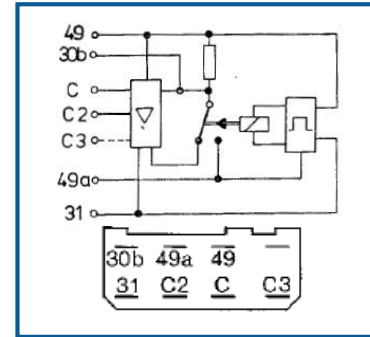
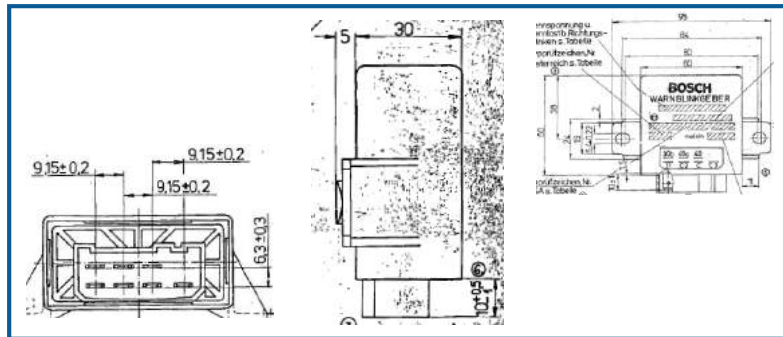


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Warning & Turn Signal Flasher 24 V

0 335 215 164

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	-	-	-	2+1+1(8)x 21 W	24 V

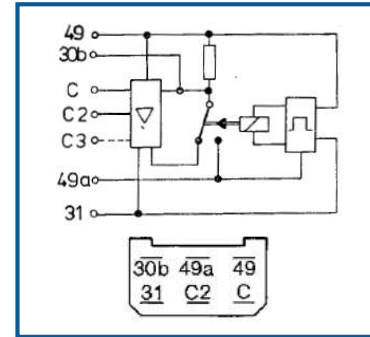
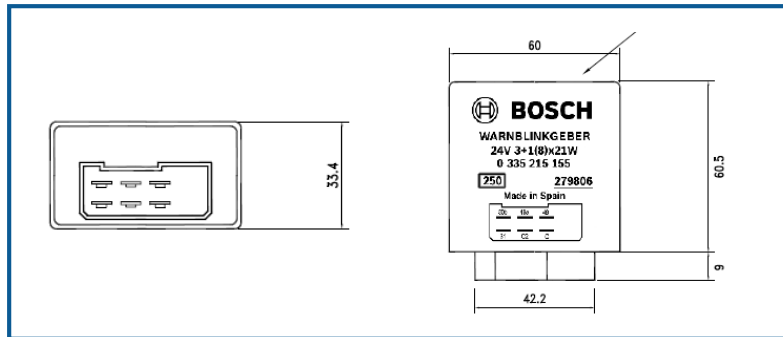


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Warning & Turn Signal Flasher 24 V

0 335 215 155

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
X	-	-	-	3+1(8)x 21 W + 2-4W	24 V

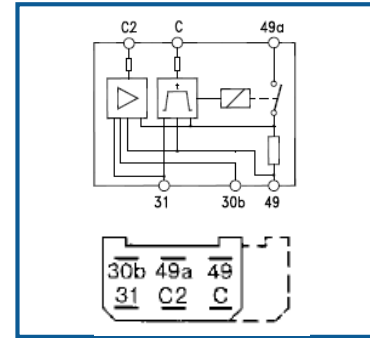
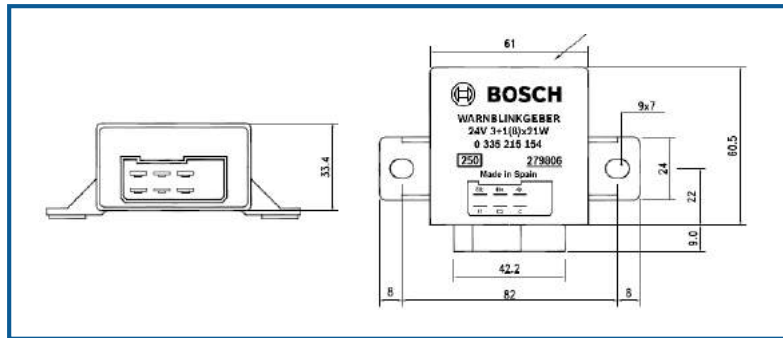


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Warning & Turn Signal Flasher 24 V

0 335 215 154

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	-	-	-	3 + 1(8) x 21 W	24 V

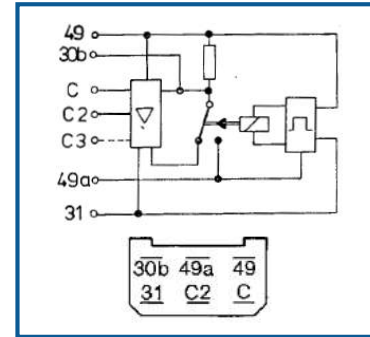
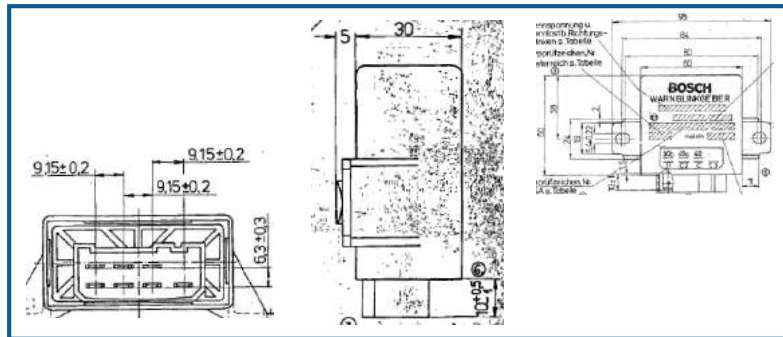


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Warning & Turn Signal Flasher 24 V

0 335 215 145

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	-	-	-	2+1(6)x 21 W + 1,2-2W	24 V

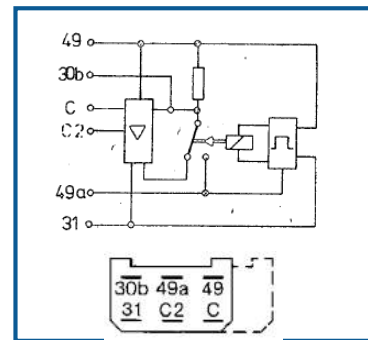
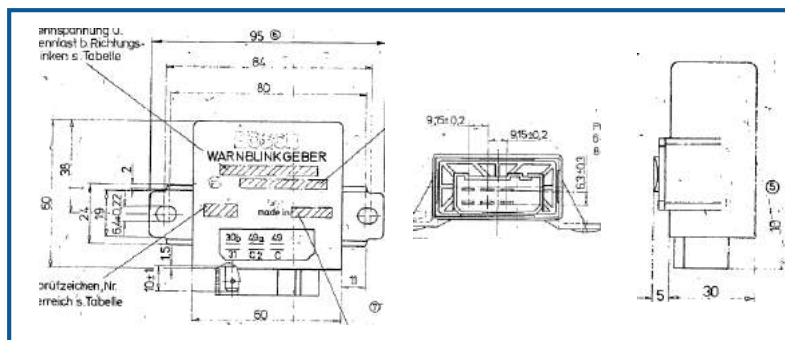


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Warning & Turn Signal Flasher 24 V

0 335 215 144

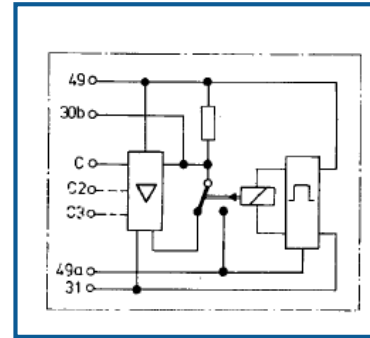
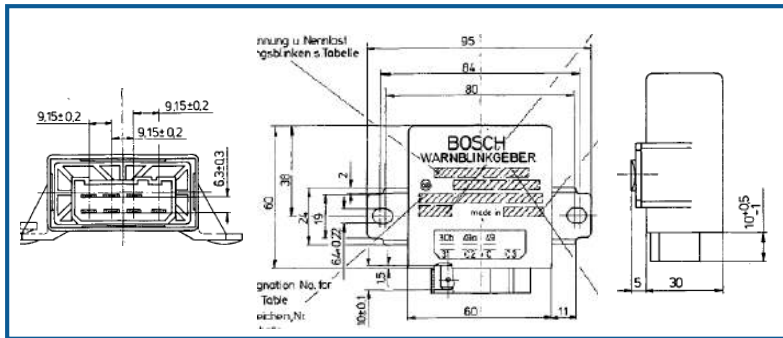
Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	-	-	-	2+1(6)x 21 W + 5 W (10W)	24 V



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Warning & Turn Signal Flasher 24 V

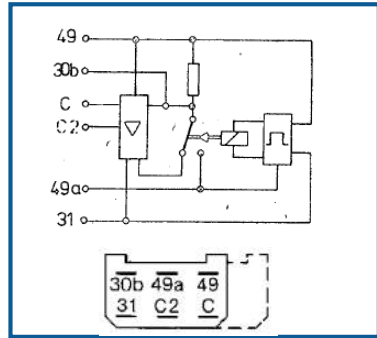
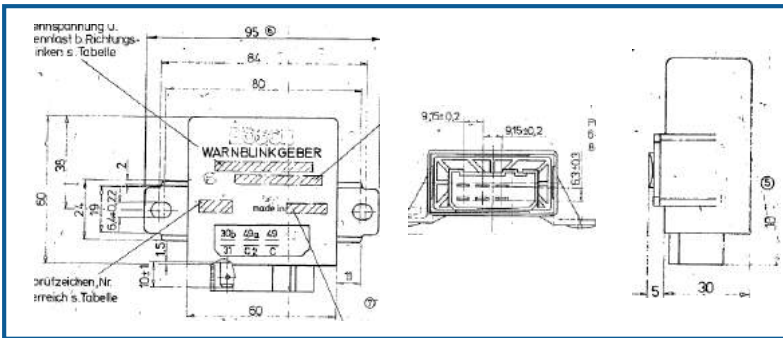
Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	-	-	-	2+1(6)x 21 W	24 V



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Warning & Turn Signal Flasher 24 V

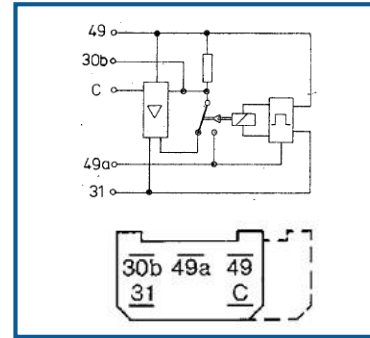
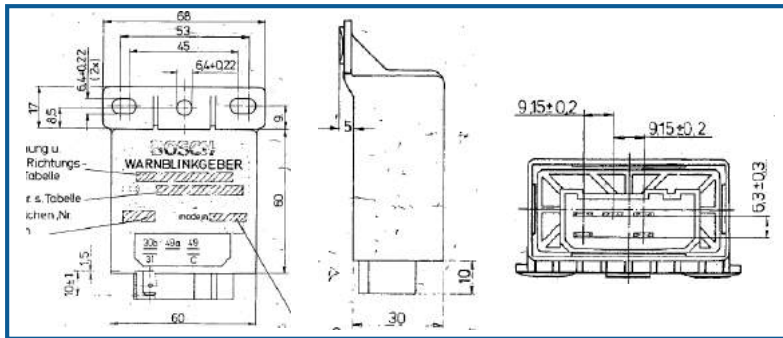
Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	-	-	-	4(8)x 21 W + 2-4 W	24 V



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Warning & Turn Signal Flasher 24 V

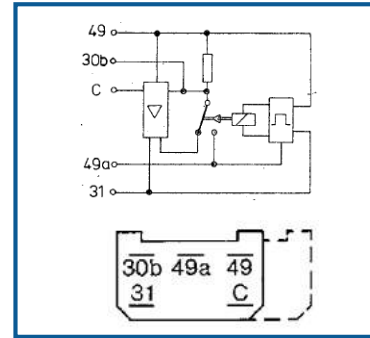
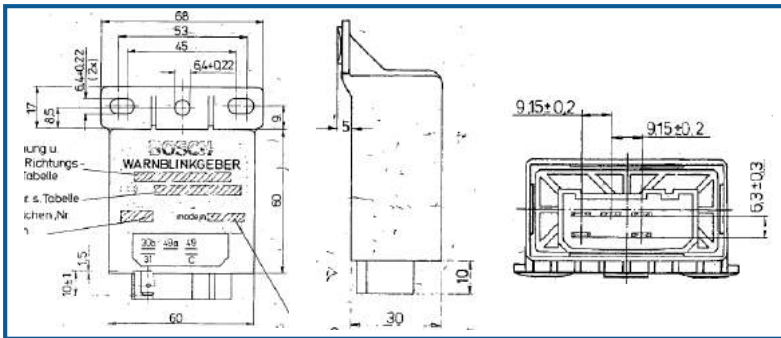
Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	-	-	-	3(6)x 21 W + 2-4W	24 V



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Warning & Turn Signal Flasher 24 V

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	-	-	-	2(4)x 21 W + 2-4W	24 V

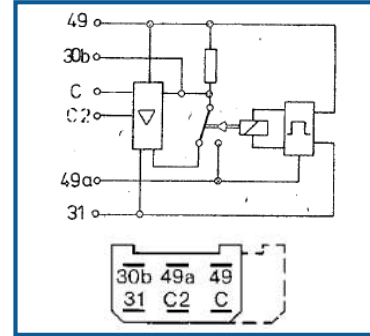
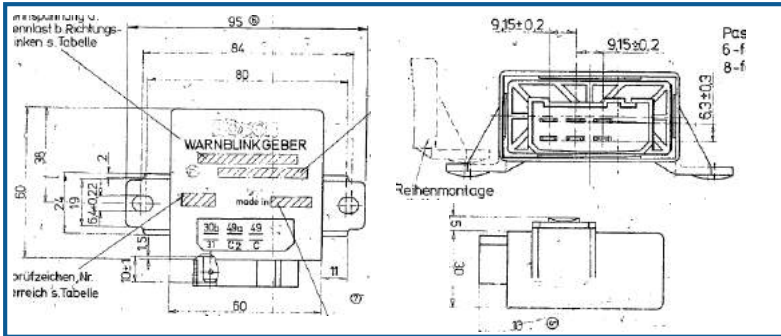


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Warning & Turn Signal Flasher 24 V

0 335 215 043

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	-	-	-	2 + 1(6)x 18 W	24 V

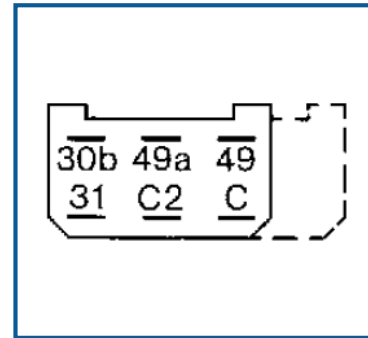
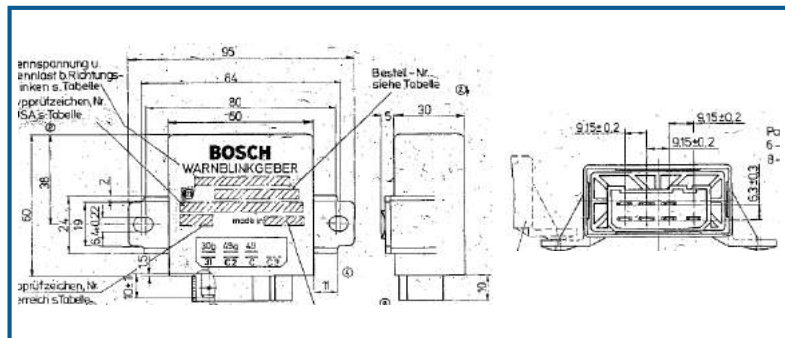


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Warning & Turn Signal Flasher 12 V

0 335 210 164

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	-	-	-	2+1+1(8)x 21 W	12 V

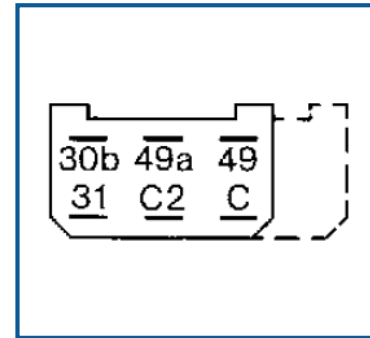
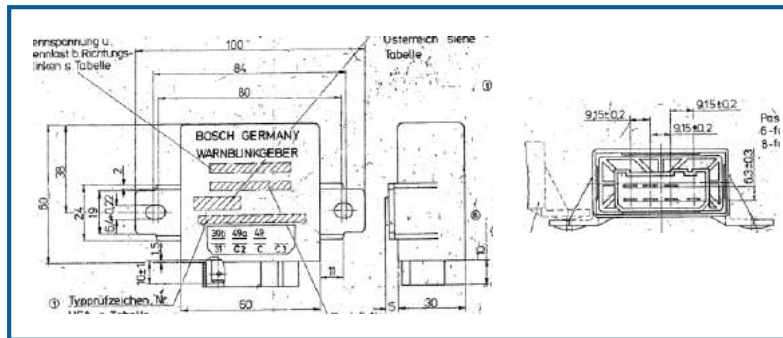


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Warning & Turn Signal Flasher 12 V

0 335 210 153

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	-	-	-	3+ 1(8)x 21 W	12 V

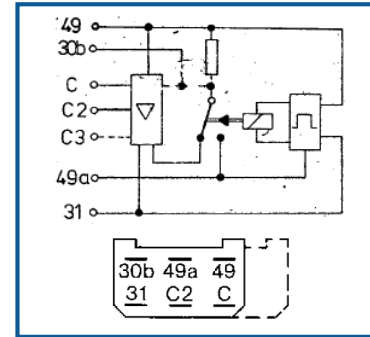
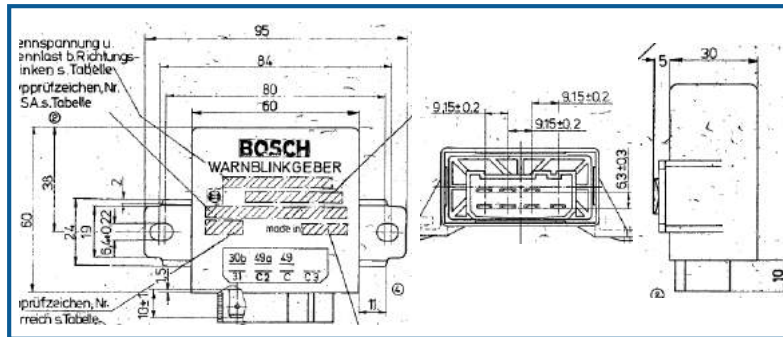


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Warning & Turn Signal Flasher 12 V

0 335 210 148

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	-	-	-	2+ 1(6)x 21 W	12 V



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0 335 210 143

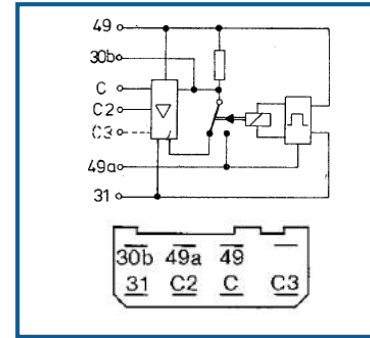
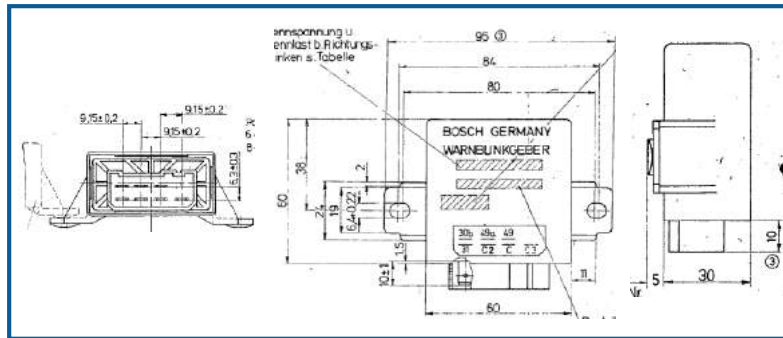


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Electronic hazard-warning and turn-signal flashers 12 V

0 335 210 063

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	-	-	-	2+1+1 (8)x18 W	12 V

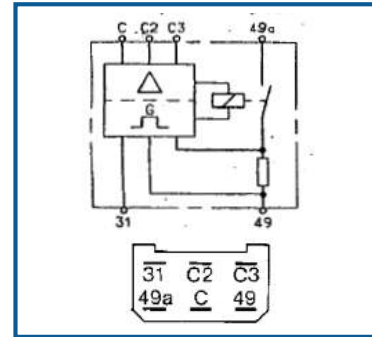
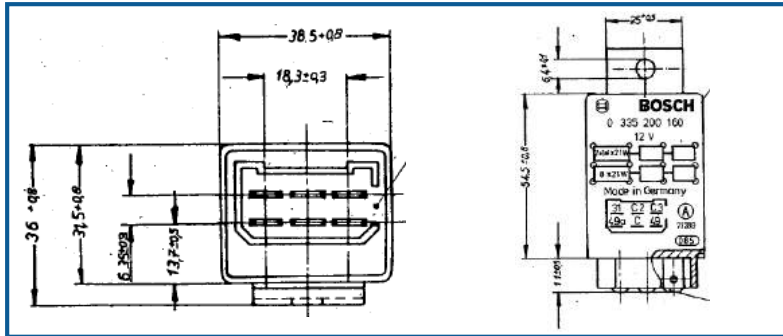


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Electronic hazard-warning and turn-signal flashers 12 V

0 335 200 160

Mounting bracket	Resistor	Diode	Life durability	Load	Voltage
✓	-	-	-	2+1 + 1(8)x 21W+ 1,2 – 2W	12 V



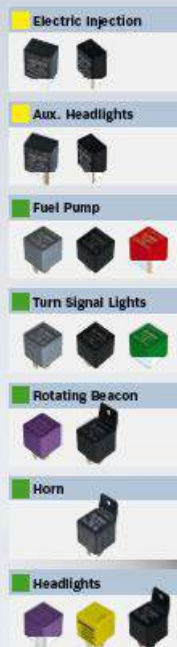
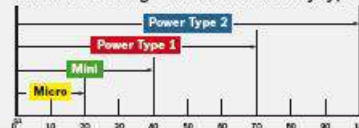
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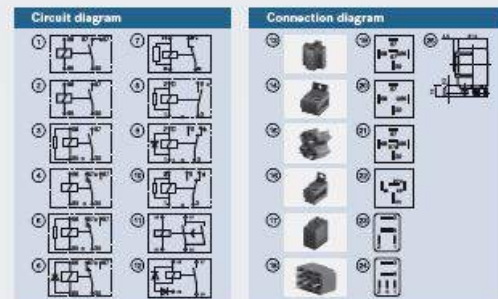
Nominal Load Range Of The Different Relay Types



Product Number	Voltage V	Current A	Brackets ¹⁾ L/O	Type ²⁾ S/W/O	Component ³⁾ R/D/C/V	Circuit Diagram Connection
0 332 011 007	12	30	O	S	R	8 / 23
0 332 201 107	12	30	O	W	R	10 / 24
0 332 207 402	24	10	O	W	D	9 / 24
0 332 207 405	24	10	O	W	D	10 / 24
0 332 019 150	12	50	L	S, 2x87	o	1 / 19
0 332 019 110	12	50	L	S	o	3 / 20
0 332 019 151	12	50	O	S, 2x87	o	1 / 19
0 332 019 157	12	40	L	S	o	2 / 20
0 332 019 203	24	40	L	S, 2x87	o	1 / 19
0 332 019 205	24	40	O	S	o	2 / 20
0 332 109 011	12	20	O	Ö	R	7 / 22
0 332 209 150	12	50	L	W	o	4 / 21
0 332 209 151	12	50	O	W	o	4 / 21
0 332 209 152	12	50	O	W	D	6 / 21
0 332 209 203	24	40	L	W	o	4 / 21
0 332 209 204	24	40	O	W	D	6 / 21
0 332 209 206	24	40	O	W	R	5 / 21
0 332 209 211	24	40	O	W	o	4 / 21
0 332 204 202	24	20	O	W, kl. B.	o	4 / 21
0 332 204 203	24	20	L	W, kl. B.	o	4 / 21
0 332 204 204	24	20	L	W, kl. B.	o	6 / 21
0 332 002 192	12	50	L	S	R	3 / 20
0 332 002 270	24	70	L	S	V	11 / 20
0 332 002 150	12	75	L	S	V	11 / 25
0 332 002 156	12	75	L	S	D	12 / 25
0 332 002 250	24	50	L	S	V	11 / 25
0 332 002 256	24	50	L	S	D	12 / 25

Socket for Mini Relays				
3 234 485 007	12/24	O		13
3 234 485 008	12/24	L		14
3 234 485 041	12/24	for solenoid		15
Socket for Micro Relays				
3 234 485 045	12/24	L		16
3 234 485 046	12/24	O		17
3 234 485 049	12/24	for solenoid		18

1) L = with mounting brackets, 0 = without mounting brackets
2) S = Make contact, W = Changeover contact, 0 = Break contact
3) R = Resistance parallel to the coil, 0 = none, a = without component V = mounted W, H, S = Changeover contact, contact device



Sample images.
Product may differ slightly
from the illustrations.



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