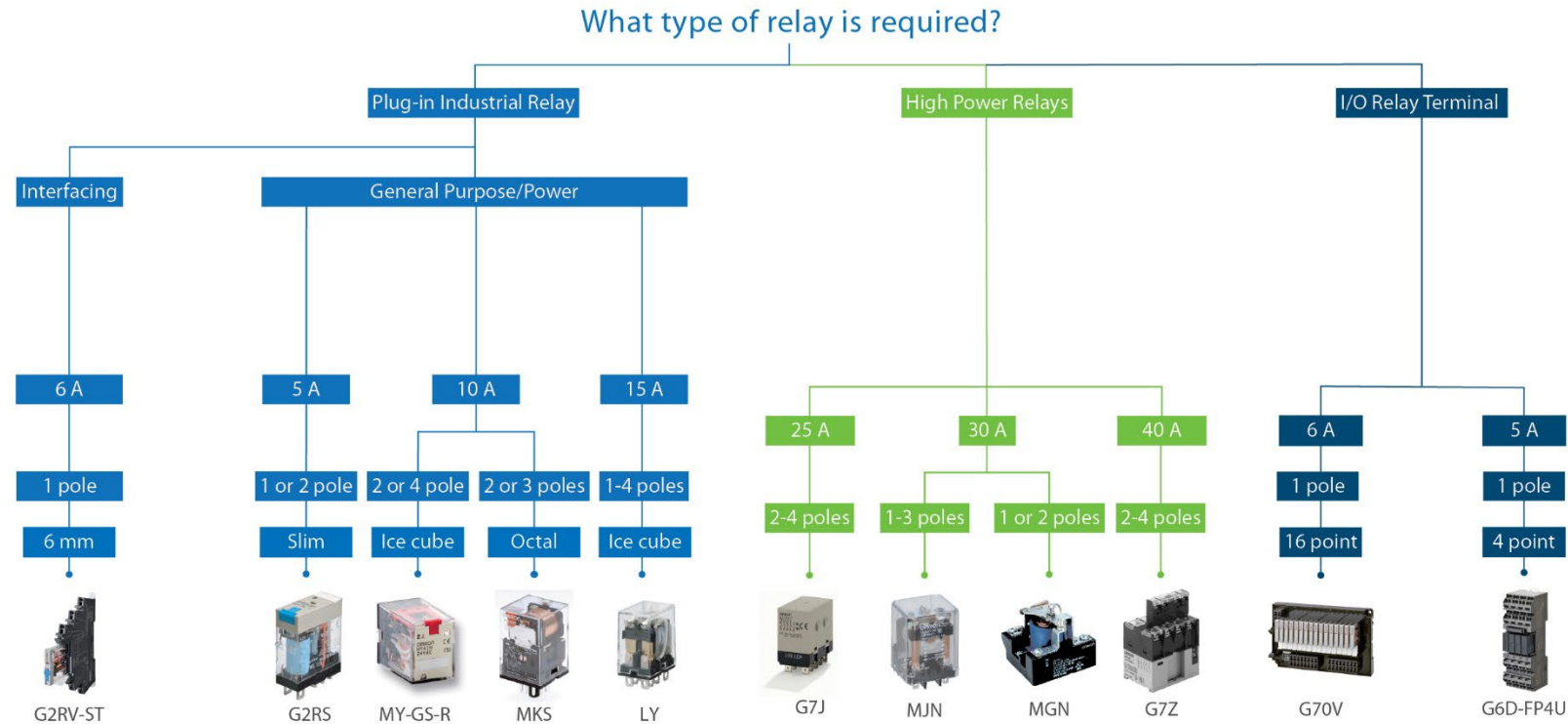


# Mechanical Relays

Omron relays are devices that switch electric circuits, driven by an operational signal which is triggered by electric input signal controlled by a switching device.



# Mechanical Relays | Omron is the world's largest relay manufacturer and has been manufacturing relays for over 50 years

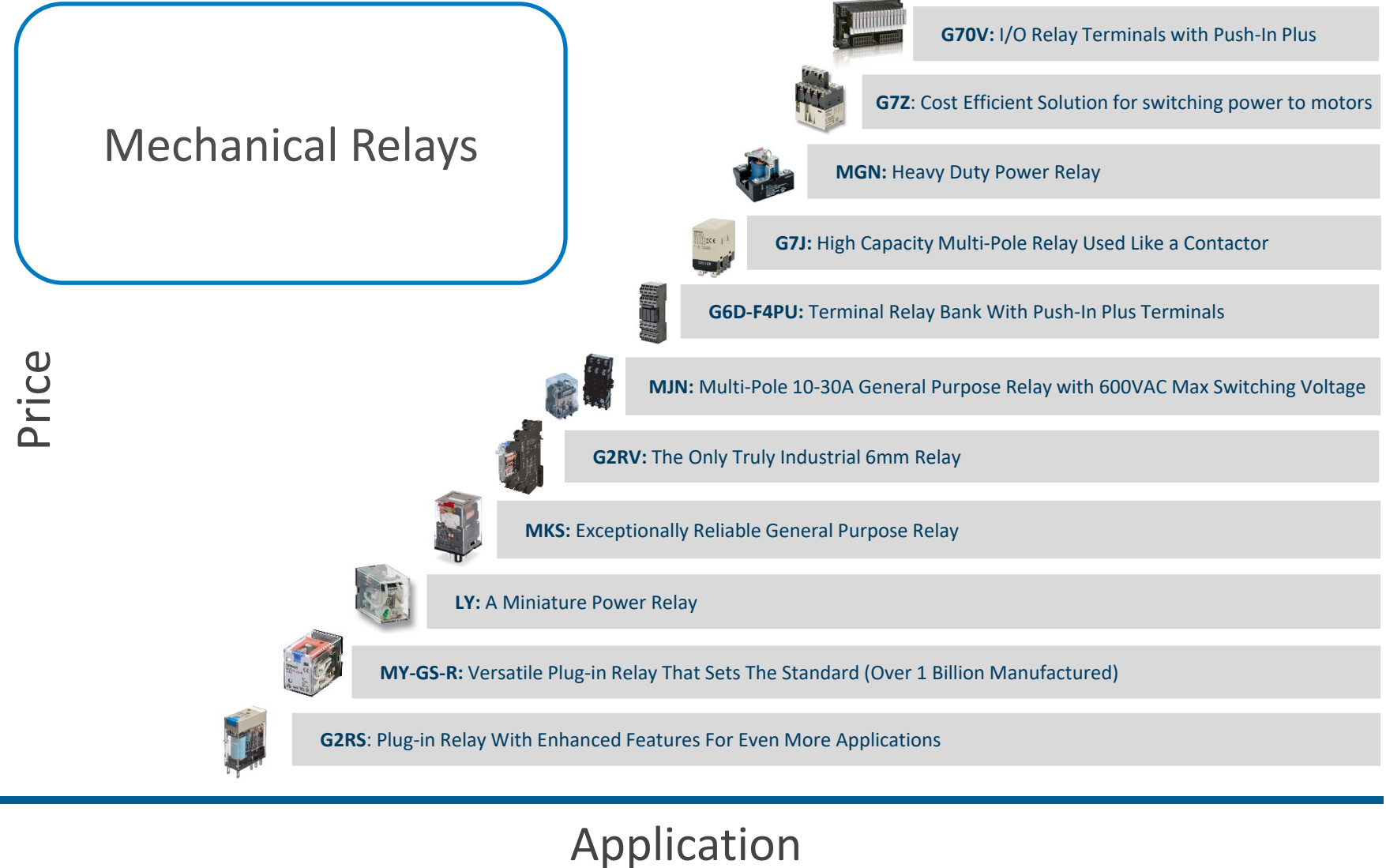


Associated Product Categories	Use Case	Product Families
Power Supplies	Powering the devices connected to your control panel	S8VK-G, S8VK-X, S8FS-G, S8VK-C
Timers/Counters	Counting or Timing based on an input signal	H5CC, H3CA, H3CR, H7CC, H7ET
Temperature Controllers	Used for process control involving temperature	E5AC, E5CC, E5DC, E5GC, E5EC
Limit Switches and Basic Switches	Mechanical switches used to detect motion or articulation	D4A, WL-N, D4C, Z, A, X, TZ, DZ
Pushbuttons & E-Stops	Pushbutton switches used to trigger an event or emergency stop function	A22NN, A30NN, A22NE, A2W

# Omron's Mechanical Relay Portfolio

Making  
relays for  
over 50  
years!

## Omron Relay Portfolio





[Click on picture to link to datasheet](#)

Plug-in Relay With  
Enhanced Features

## G2RS: Plug-in Relay With Enhanced Features For Even More Applications

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### Specifications:

- Space saving - 16mm with socket
- SPDT type 10A, DPDT type 5A
- LED indicator, color coded green for DC versions, red for AC versions
- Test button, momentary and lockable, blue for DC, red for AC versions
- Screw-less clamp terminal sockets available



[Click on picture to link to datasheet](#)

Versatile Plug-In Relay

## MY-GS-R: Versatile Plug-in Relay That Sets The Standard

### Specifications:

- DPDT type 10 A / 4PDT type 6 A
- Mechanical flag, LED indicator and momentary / lockable test button optional
- Transparent housing
- Low power switching (1 mA at 5 VDC) / Bifurcated 4PDT (0.1 mA at 1 VDC)
- Screw-less clamp terminal sockets available



[Click on picture to link to datasheet](#)

Miniature Power Relay

## LY: A Miniature Power Relay

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### Specifications:

- SPDT, DPDT, 3PDT and 4PDT contact types
- DIN-rail by socket, PCB & flange mounting types available
- 10A rated load
- Single, Double, Three & Four Pole Models Available
- UL, CSA, and SEV Certified



[Click on picture to link to datasheet](#)

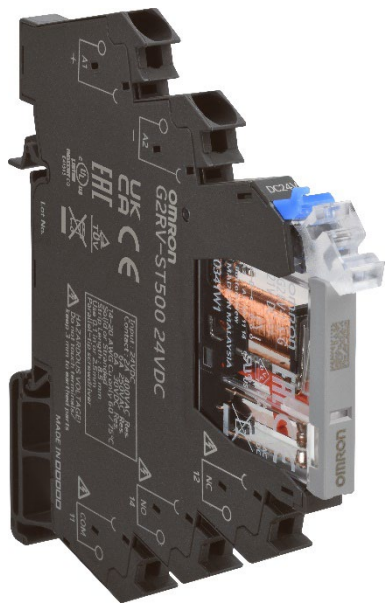
Reliable General  
Purpose Relay

## MKS: Exceptionally Reliable General Purpose Relay

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### Specifications:

- 8-pin DPDT and 11-pin 3PDT contact types
- Switching current up to 10 A
- Lockable test button for easy testing
- Temperature rating from -40C up to 60C
- UL, CSA and TUV approval



[Click on picture to link to datasheet](#)

Industrial 6mm Relay

## G2RV: The Only Truly Industrial 6mm Relay

### Specifications:

- Push-in plus Technology – easy wiring
- Lockable test switch models available
- Large plug-in pins – excellent connection
- LED/mechanical flag – check operation
- Transparent housing – check condition
- Slim outline – space saving
- Special input type with gold plated contacts
- G3RV compatible



[Click on picture to link to datasheet](#)

General Purpose Relay  
With 600VAC Switching

## MJN: Multi-Pole 10-30A General Purpose Relay with 600VAC Switching Voltage

### Specifications:

- SPDT, DPDT, and 3PDT GP relay ideal for motor applications
- 10A models have UL 1/3 HP @ 120VAC Rating
- Rugged power driver offers 3/16" clearance and 3/8" creepage
- 30A flange models have 15A @ 600VAC load rating
- UL and CSA Approved



[Click on picture to link to datasheet](#)

Terminal Relay with  
Push-In Plus

## G6D-F4PU: Terminal Relay Bank With Push-In Plus Terminals

### Specifications:

- Provides I/O flexibility with 4 mechanical relays built into 1 terminal
- 5A rating on each relay
- Each relay has independent coils and contacts for PLC output compatibility (NPN or PNP)
- Push-In Plus terminals
- LED operation indicator
- Tool installed for easy removal and replacement



[Click on picture to link to datasheet](#)

High Capacity Multi-  
Pole Relay

## G7J: High Capacity Multi-Pole Relay Used Like a Contactor

### Specifications:

- With a rated load current of 25A, the G7J can switch both motor loads as well as resistive and inductive loads
- G7J has no contact chattering for momentary voltage drops up to 50% of its rated voltage
- 4PST-NO, 3PST-NO / SPST-NC or DPST-NO / DPST-NC contact types
- Quick-connect, PCB or screw terminals
- 25A rated load
- Compatible with momentary voltage drops
- Can be used like a contactor



[Click on picture to link to datasheet](#)

Heavy Duty Power Relay

## MGN: Heavy Duty Power Relay

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### Specifications:

- Rugged GP Relay with high max operating temperature
- Great for heavy duty HVAC and motor loads
- UL Class F Coil Insulation great match for HVAC industry requirements
- 1.5 HP @ 120VAC UL Rating useful for motor load applications
- Short Circuit Current Rating of 5kA, 600VAC



[Click on picture to link to datasheet](#)

Efficient Solution to  
Switch Motors

## G7Z: Cost Efficient Solution for switching power to motors

### Specifications:

- Versatile, space-saving design, and cost-efficient solution for power switching in safety circuits for motors, industrial inverters and universal power supplies (UPS)
- Switching current 160 A (40 A rating / 4-pole / IEC-AC1)
- Switching voltage 440 VAC
- Safety function with mirror contacts in various configurations
- Power consumption less than 4 Watts
- Low Switching Noise (70 dB)



[Click on picture to link to datasheet](#)

I/O Relay Terminals with  
Push-In Plus

## G70V: I/O Relay Terminals with Push-In Plus

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### Specifications:

- I/O relay terminals with 16 points to mount G2RV slim I/O relays
- Push-In Plus technology used to save wiring work in comparison with traditional screw terminals
- Work is reduced ever further with one-step cable connection to the PLC
- Diode provided for coil surge absorption
- Operation indicators for immediate recognition of I/O signal status
- Accepts G3RV Slim I/O SSRs
- DIN Track or screw mounting

# Omron Relays

Omron is Your Trusted Partner for Industrial  
Automation Relays

[Click here to be taken to Omron's Relay Offerings](#)

