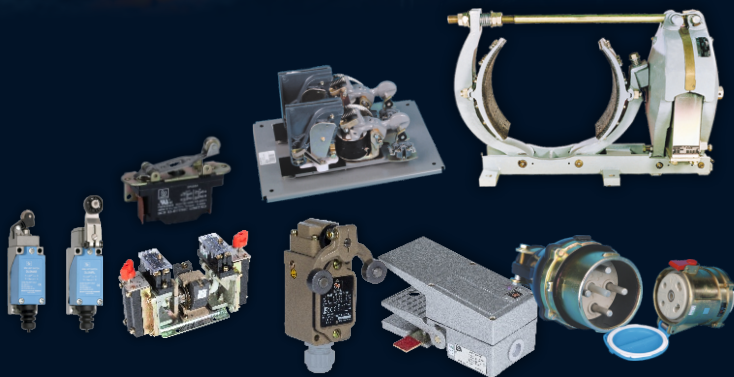


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## PRICE LIST

Effective : 11th June 2025

## Industrial Core Products

(Plugs & Sockets, Foot Switches, DC Contactors, Limit Switches, AC Solenoid & Brakes,  
DC Brakes, Pneumatic Timers & Punched Grid Resistors)



BCH

BCH  
ELECTRIC  
LIMITED

# Modern facilities at Faridabad & Rudrapur



## Our Strengths

- ◆ State-of-the-art product development and R&D
- ◆ Modern manufacturing facilities
- ◆ Tool room with latest facilities
- ◆ Serving customers for five decades
- ◆ Presence in ~50 locations
- ◆ 650 channel partners
- ◆ ISO 9001:2015 & ISO 14001:2015, ISO 45001: 2018 certified company

## Core Values

- ◆ Integrity
- ◆ Nurturing People
- ◆ Commitment to Customers
- ◆ Striving for Excellence
- ◆ Long Term Thinking

## Quality Policy

We as a member of BCH Electric Limited manufacturer of Low Voltage Switchgear & Controlgear products, are fully committed to provide Quality products and service in compliance with applicable Statutory and Regulatory requirements, to meet or exceed the customer need and expectations through -

- ◆ Continual improvement
- ◆ Involvement of employees
- ◆ Setting Quality objectives
- ◆ Training and development of employees

## Health & Safety Policy

We as a member of BCH Electric Limited manufacturer of Low Voltage Switchgear & Controlgear products, are fully committed to conduct Business in compliance to applicable Health & Safety legislation and regulation.

We shall continually improve through -

- ◆ Provide Safe & Healthy working conditions for the prevention of work related injury and ill health.
- ◆ Develop & maintain the Health & Safety objectives & targets and conduct health & safety programs for achieving the objectives and target.
- ◆ The prevention of accidents through the identification, assessment and elimination of workplace hazards and the promotion of health & safety awareness among its employees and contractors.
- ◆ Encourage employee's participation and consultation in matters affecting the health, safety and well being of our people and seek suggestions from our employees of ways in which health, safety & well being can be furthered.

The Health & safety policy is publicly available on request.

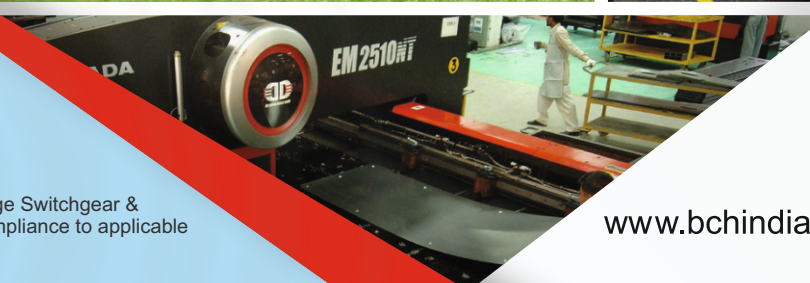
## Environmental Policy

We as a member of BCH Electric Limited manufacturer of Low Voltage Switchgear & Controlgear products, are fully committed to conduct Business in compliance to applicable Environmental legislation and regulation.

We shall continually improve through -

- ◆ Provide a framework for setting and reviewing environmental objectives and targets.
- ◆ Regularly review the impact of our activities on environment and strive to reduce the pollution/waste.
- ◆ Involve employees in our environmental program and provide necessary training to enable them to discharge their responsibilities towards environment management.
- ◆ Sustain the program of continual improvement in environment in environmental performance incorporating suitable metrics and monitoring.

The Environment policy is publicly available on request.

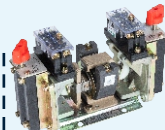
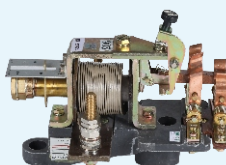
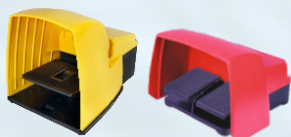
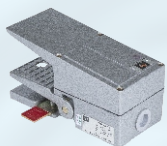
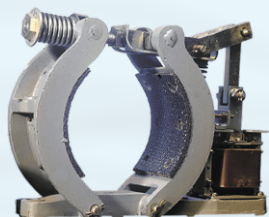
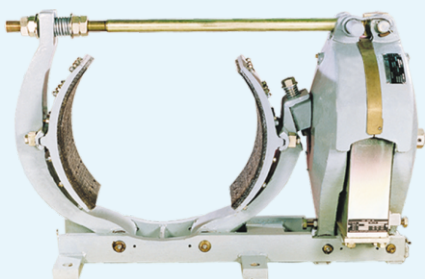


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# Industrial Core Products

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# Polycarbonate Plug & Socket BPX Series=



## BPX Range of Plugs/Socket/Connector- 16A to 125A:

Conform to International standards EN/IEC 60309-1 & 2

HSN Code : 8536

HSN Code : 8536

| Panel Mounted Straight Socket - IP44 |       |                  |                   |                  |                   |                   |
|--------------------------------------|-------|------------------|-------------------|------------------|-------------------|-------------------|
| Amp                                  | Poles | 230V~<br>50-60Hz |                   | 415V~<br>50-60Hz |                   | MRP (₹)<br>/ Unit |
|                                      |       | Lot size         | MRP (₹)<br>/ Unit | Lot size         | MRP (₹)<br>/ Unit |                   |
| 16                                   | 3     | BPX1PSS341       |                   | 10               | 700               |                   |
|                                      | 4     |                  |                   | 10               | 1125              |                   |
|                                      | 5     |                  |                   | 10               | 1140              |                   |
| 32                                   | 3     | BPX2PSS341       |                   | 10               | 1210              |                   |
|                                      | 4     |                  |                   | 10               | 1380              |                   |
|                                      | 5     |                  |                   | 10               | 1395              |                   |
| 63                                   | 3     | BPX3PSS341       |                   | 5                | 4815              |                   |
|                                      | 4     |                  |                   | 5                | 4920              |                   |
|                                      | 5     |                  |                   | 5                | 4955              |                   |

| Panel Mounted Straight Socket - IP67 |       |                  |                   |                  |                   |                   |
|--------------------------------------|-------|------------------|-------------------|------------------|-------------------|-------------------|
| Amp                                  | Poles | 230V~<br>50-60Hz |                   | 415V~<br>50-60Hz |                   | MRP (₹)<br>/ Unit |
|                                      |       | Lot size         | MRP (₹)<br>/ Unit | Lot size         | MRP (₹)<br>/ Unit |                   |
| 16                                   | 3     | BPX1PSS371       |                   | 10               | 1460              |                   |
|                                      | 4     |                  |                   | 10               | 1585              |                   |
|                                      | 5     |                  |                   | 10               | 1595              |                   |
| 32                                   | 3     | BPX2PSS371       |                   | 10               | 1825              |                   |
|                                      | 4     |                  |                   | 10               | 2080              |                   |
|                                      | 5     |                  |                   | 10               | 2100              |                   |
| 63                                   | 3     | BPX3PSS371       |                   | 5                | 5390              |                   |
|                                      | 4     |                  |                   | 5                | 5410              |                   |
|                                      | 5     |                  |                   | 5                | 5435              |                   |
| 125                                  | 3     | BPX4PSS371       |                   | 2                | 18385             |                   |
|                                      | 4     |                  |                   | 2                | 18475             |                   |
|                                      | 5     |                  |                   | 2                | 18580             |                   |

| Panel Mounted Angled Socket - IP44 |       |                  |                   |                  |                   |                   |
|------------------------------------|-------|------------------|-------------------|------------------|-------------------|-------------------|
| Amp                                | Poles | 230V~<br>50-60Hz |                   | 415V~<br>50-60Hz |                   | MRP (₹)<br>/ Unit |
|                                    |       | Lot size         | MRP (₹)<br>/ Unit | Lot size         | MRP (₹)<br>/ Unit |                   |
| 16                                 | 3     | BPX1PAS341       |                   | 10               | 700               |                   |
|                                    | 4     |                  |                   | 10               | 1135              |                   |
|                                    | 5     |                  |                   | 10               | 1150              |                   |
| 32                                 | 3     | BPX2PAS341       |                   | 10               | 1210              |                   |
|                                    | 4     |                  |                   | 10               | 1400              |                   |
|                                    | 5     |                  |                   | 10               | 1415              |                   |
| 63                                 | 3     | BPX3PAS341       |                   | 5                | 4815              |                   |
|                                    | 4     |                  |                   | 5                | 4955              |                   |
|                                    | 5     |                  |                   | 5                | 4980              |                   |

| Panel Mounted Angled Socket - IP67 |       |                  |                   |                  |                   |                   |
|------------------------------------|-------|------------------|-------------------|------------------|-------------------|-------------------|
| Amp                                | Poles | 230V~<br>50-60Hz |                   | 415V~<br>50-60Hz |                   | MRP (₹)<br>/ Unit |
|                                    |       | Lot size         | MRP (₹)<br>/ Unit | Lot size         | MRP (₹)<br>/ Unit |                   |
| 16                                 | 3     | BPX1PAS371       |                   | 10               | 1460              |                   |
|                                    | 4     |                  |                   | 10               | 1585              |                   |
|                                    | 5     |                  |                   | 10               | 1600              |                   |
| 32                                 | 3     | BPX2PAS371       |                   | 10               | 1825              |                   |
|                                    | 4     |                  |                   | 10               | 2080              |                   |
|                                    | 5     |                  |                   | 10               | 2095              |                   |
| 63                                 | 3     | BPX3PAS371       |                   | 5                | 5390              |                   |
|                                    | 4     |                  |                   | 5                | 5410              |                   |
|                                    | 5     |                  |                   | 5                | 5435              |                   |
| 125                                | 3     | BPX4PAS371       |                   | 2                | 18385             |                   |
|                                    | 4     |                  |                   | 2                | 18475             |                   |
|                                    | 5     |                  |                   | 2                | 18580             |                   |

| Surface Mounted Socket - IP44 |       |                  |                   |                  |                   |                   |
|-------------------------------|-------|------------------|-------------------|------------------|-------------------|-------------------|
| Amp                           | Poles | 230V~<br>50-60Hz |                   | 415V~<br>50-60Hz |                   | MRP (₹)<br>/ Unit |
|                               |       | Lot size         | MRP (₹)<br>/ Unit | Lot size         | MRP (₹)<br>/ Unit |                   |
| 16                            | 3     | BPX1WS341        |                   | 10               | 1125              |                   |
|                               | 4     |                  |                   | 10               | 1240              |                   |
|                               | 5     |                  |                   | 10               | 1255              |                   |
| 32                            | 3     | BPX2WS341        |                   | 10               | 1400              |                   |
|                               | 4     |                  |                   | 10               | 1525              |                   |
|                               | 5     |                  |                   | 10               | 1545              |                   |
| 63                            | 3     | BPX3WS341        |                   | 3                | 5505              |                   |
|                               | 4     |                  |                   | 3                | 5515              |                   |
|                               | 5     |                  |                   | 3                | 5540              |                   |

| Surface Mounted Socket - IP67 |       |                  |                   |                  |                   |                   |
|-------------------------------|-------|------------------|-------------------|------------------|-------------------|-------------------|
| Amp                           | Poles | 230V~<br>50-60Hz |                   | 415V~<br>50-60Hz |                   | MRP (₹)<br>/ Unit |
|                               |       | Lot size         | MRP (₹)<br>/ Unit | Lot size         | MRP (₹)<br>/ Unit |                   |
| 16                            | 3     | BPX1WS371        |                   | 10               | 1900              |                   |
|                               | 4     |                  |                   | 10               | 2405              |                   |
|                               | 5     |                  |                   | 10               | 2425              |                   |
| 32                            | 3     | BPX2WS371        |                   | 10               | 2355              |                   |
|                               | 4     |                  |                   | 10               | 2905              |                   |
|                               | 5     |                  |                   | 10               | 2930              |                   |
| 63                            | 3     | BPX3WS371        |                   | 3                | 6920              |                   |
|                               | 4     |                  |                   | 3                | 6950              |                   |
|                               | 5     |                  |                   | 3                | 7000              |                   |
| 125                           | 3     | BPX4WS371        |                   | 1                | 22605             |                   |
|                               | 4     |                  |                   | 1                | 24800             |                   |
|                               | 5     |                  |                   | 1                | 24905             |                   |

| Standard Connector - IP44 |       |                  |                   |                  |                   |                   |
|---------------------------|-------|------------------|-------------------|------------------|-------------------|-------------------|
| Amp                       | Poles | 230V~<br>50-60Hz |                   | 415V~<br>50-60Hz |                   | MRP (₹)<br>/ Unit |
|                           |       | Lot size         | MRP (₹)<br>/ Unit | Lot size         | MRP (₹)<br>/ Unit |                   |
| 16                        | 3     | BPX1SC341        |                   | 10               | 870               |                   |
|                           | 4     |                  |                   | 10               | 1025              |                   |
|                           | 5     |                  |                   | 10               | 1035              |                   |
| 32                        | 3     | BPX2SC341        |                   | 10               | 1125              |                   |
|                           | 4     |                  |                   | 10               | 1410              |                   |
|                           | 5     |                  |                   | 10               | 1420              |                   |
| 63                        | 3     | BPX3SC341        |                   | 5                | 5905              |                   |
|                           | 4     |                  |                   | 5                | 5920              |                   |
|                           | 5     |                  |                   | 5                | 5945              |                   |

| Standard Connector - IP67 |       |                  |                   |                  |                   |                   |
|---------------------------|-------|------------------|-------------------|------------------|-------------------|-------------------|
| Amp                       | Poles | 230V~<br>50-60Hz |                   | 415V~<br>50-60Hz |                   | MRP (₹)<br>/ Unit |
|                           |       | Lot size         | MRP (₹)<br>/ Unit | Lot size         | MRP (₹)<br>/ Unit |                   |
| 16                        | 3     | BPX1SC371        |                   | 10               | 1835              |                   |
|                           | 4     |                  |                   | 10               | 2185              |                   |
|                           | 5     |                  |                   | 10               | 2205              |                   |
| 32                        | 3     | BPX2SC371        |                   | 10               | 2535              |                   |
|                           | 4     |                  |                   | 10               | 2845              |                   |
|                           | 5     |                  |                   | 10               | 2860              |                   |
| 63                        | 3     | BPX3SC371        |                   | 5                | 6005              |                   |
|                           | 4     |                  |                   | 5                | 6025              |                   |
|                           | 5     |                  |                   | 5                | 6050              |                   |
| 125                       | 3     | BPX4SC371        |                   | 1                | 19285             |                   |
|                           | 4     |                  |                   | 1                | 19665             |                   |
|                           | 5     |                  |                   | 1                | 19770             |                   |

# Polycarbonate Plug & Socket BPX Series=



## BPX Range of Plugs/Socket/Connector- 16A to 125A:

Conform to International standards EN/IEC 60309-1 & 2

HSN Code : 8536

HSN Code : 8536

| Standard Plug - IP44 |       |           |           |          |         |        |
|----------------------|-------|-----------|-----------|----------|---------|--------|
| Amp                  | Poles | 230V~     | 415V~     | Lot size | MRP (₹) | / Unit |
|                      |       | 50-60Hz   | 50-60Hz   |          |         |        |
| 16                   | 3     | BPX1SP341 |           | 10       | 575     |        |
|                      | 4     |           | BPX1SP442 | 10       | 805     |        |
|                      | 5     |           | BPX1SP542 | 10       | 815     |        |
| 32                   | 3     | BPX2SP341 |           | 10       | 975     |        |
|                      | 4     |           | BPX2SP442 | 10       | 1180    |        |
|                      | 5     |           | BPX2SP542 | 10       | 1190    |        |
| 63                   | 3     | BPX3SP341 |           | 5        | 4590    |        |
|                      | 4     |           | BPX3SP442 | 5        | 4620    |        |
|                      | 5     |           | BPX3SP542 | 5        | 4650    |        |



| Standard Plug - IP67 |       |           |           |          |         |        |
|----------------------|-------|-----------|-----------|----------|---------|--------|
| Amp                  | Poles | 230V~     | 415V~     | Lot size | MRP (₹) | / Unit |
|                      |       | 50-60Hz   | 50-60Hz   |          |         |        |
| 16                   | 3     | BPX1SP371 |           | 10       | 1275    |        |
|                      | 4     |           | BPX1SP472 | 10       | 1720    |        |
|                      | 5     |           | BPX1SP572 | 10       | 1735    |        |
| 32                   | 3     | BPX2SP371 |           | 10       | 1960    |        |
|                      | 4     |           | BPX2SP472 | 10       | 2080    |        |
|                      | 5     |           | BPX2SP572 | 10       | 2110    |        |
| 63                   | 3     | BPX3SP371 |           | 5        | 5275    |        |
|                      | 4     |           | BPX3SP472 | 5        | 5305    |        |
|                      | 5     |           | BPX3SP572 | 5        | 5330    |        |
| 125A                 | 3     | BPX4SP371 |           | 1        | 16585   |        |
|                      | 4     |           | BPX4SP472 | 1        | 16620   |        |
|                      | 5     |           | BPX4SP572 | 1        | 16725   |        |



| Phase Inverter Plug - IP44 |       |            |         |          |         |
|----------------------------|-------|------------|---------|----------|---------|
| Amp                        | Poles | 415V~      |         | Lot size | MRP (₹) |
|                            |       | 50-60Hz    | 50-60Hz |          |         |
| 16                         | 5     | BPX1PIP542 |         | 10       | 1345    |
| 32                         | 5     | BPX2PIP542 |         | 10       | 1905    |



| Phase Inverter Plug - IP67 |       |            |         |          |         |
|----------------------------|-------|------------|---------|----------|---------|
| Amp                        | Poles | 415V~      |         | Lot size | MRP (₹) |
|                            |       | 50-60Hz    | 50-60Hz |          |         |
| 16                         | 5     | BPX1PIP572 |         | 10       | 2680    |
| 32                         | 5     | BPX2PIP572 |         | 10       | 3185    |



| Panel Mounted Plug - IP44 |       |           |           |          |         |        |
|---------------------------|-------|-----------|-----------|----------|---------|--------|
| Amp                       | Poles | 230V~     | 415V~     | Lot size | MRP (₹) | / Unit |
|                           |       | 50-60Hz   | 50-60Hz   |          |         |        |
| 16                        | 3     | BPX1PP341 |           | 10       | 910     |        |
|                           | 4     |           | BPX1PP442 | 10       | 1245    |        |
|                           | 5     |           | BPX1PP542 | 10       | 1280    |        |
| 32                        | 3     | BPX2PP341 |           | 10       | 1320    |        |
|                           | 4     |           | BPX2PP442 | 10       | 1540    |        |
|                           | 5     |           | BPX2PP542 | 10       | 1575    |        |
| 63                        | 3     | BPX3PP341 |           | 5        | 4805    |        |
|                           | 4     |           | BPX3PP442 | 5        | 4840    |        |
|                           | 5     |           | BPX3PP542 | 5        | 4915    |        |



| Panel Mounted Plug - IP67 |       |           |           |          |         |        |
|---------------------------|-------|-----------|-----------|----------|---------|--------|
| Amp                       | Poles | 230V~     | 415V~     | Lot size | MRP (₹) | / Unit |
|                           |       | 50-60Hz   | 50-60Hz   |          |         |        |
| 16                        | 3     | BPX1PP371 |           | 10       | 1930    |        |
|                           | 4     |           | BPX1PP472 | 10       | 2560    |        |
|                           | 5     |           | BPX1PP572 | 10       | 2605    |        |
| 32                        | 3     | BPX2PP371 |           | 10       | 2495    |        |
|                           | 4     |           | BPX2PP472 | 10       | 2675    |        |
|                           | 5     |           | BPX2PP572 | 10       | 2725    |        |
| 63                        | 3     | BPX3PP371 |           | 5        | 5335    |        |
|                           | 4     |           | BPX3PP472 | 5        | 5370    |        |
|                           | 5     |           | BPX3PP572 | 5        | 5390    |        |
| 125A                      | 3     | BPX4PP371 |           | 2        | 17950   |        |
|                           | 4     |           | BPX4PP472 | 2        | 19165   |        |
|                           | 5     |           | BPX4PP572 | 2        | 19435   |        |



| Surface Mounted Plug - IP44 |       |           |           |          |         |        |
|-----------------------------|-------|-----------|-----------|----------|---------|--------|
| Amp                         | Poles | 230V~     | 415V~     | Lot size | MRP (₹) | / Unit |
|                             |       | 50-60Hz   | 50-60Hz   |          |         |        |
| 16                          | 3     | BPX1WP341 |           | 10       | 1690    |        |
|                             | 4     |           | BPX1WP442 | 8        | 2270    |        |
|                             | 5     |           | BPX1WP542 | 10       | 2300    |        |
| 32                          | 3     | BPX2WP341 |           | 10       | 2800    |        |
|                             | 4     |           | BPX2WP442 | 10       | 3250    |        |
|                             | 5     |           | BPX2WP542 | 10       | 3310    |        |
| 63                          | 3     | BPX3WP341 |           | 2        | 6445    |        |
|                             | 4     |           | BPX3WP442 | 2        | 6495    |        |
|                             | 5     |           | BPX3WP542 | 2        | 6590    |        |



| Surface Mounted Plug - IP67 |       |           |           |          |         |        |
|-----------------------------|-------|-----------|-----------|----------|---------|--------|
| Amp                         | Poles | 230V~     | 415V~     | Lot size | MRP (₹) | / Unit |
|                             |       | 50-60Hz   | 50-60Hz   |          |         |        |
| 16                          | 3     | BPX1WP371 |           | 10       | 2390    |        |
|                             | 4     |           | BPX1WP472 | 8        | 3070    |        |
|                             | 5     |           | BPX1WP572 | 10       | 3120    |        |
| 32                          | 3     | BPX2WP371 |           | 10       | 5340    |        |
|                             | 4     |           | BPX2WP472 | 10       | 5490    |        |
|                             | 5     |           | BPX2WP572 | 10       | 5575    |        |
| 63                          | 3     | BPX3WP371 |           | 2        | 7235    |        |
|                             | 4     |           | BPX3WP472 | 2        | 7270    |        |
|                             | 5     |           | BPX3WP572 | 2        | 7375    |        |






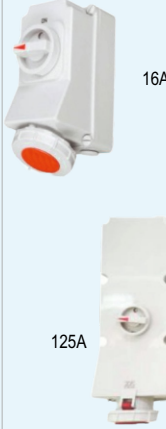
# Polycarbonate Plug & Socket BPX Series=





## BPX Range of Socket Outlet with Switch and Mechanical Interlock

Conform to International standards EN/IEC 60309-1 & 2

HSN Code : 8536

| Socket Outlet with Switch and Mechanical Interlock                                  |                      |       |                  |                  |            |                   |        |
|---|----------------------|-------|------------------|------------------|------------|-------------------|--------|
| Horizontal Type - IP44  |                      |       |                  |                  |            |                   |        |
|    | Amp                  | Poles | 230V~<br>50-60Hz | 415V~<br>50-60Hz | Lot size   | MRP (₹)<br>/ Unit |        |
|   | 16                   | 3     |                  | BPX1MIH341       |            | 4                 | 8105   |
|   |                      | 4     |                  |                  | BPX1MIH442 | 4                 | 11405  |
|   |                      | 5     |                  |                  | BPX1MIH542 | 4                 | 11460  |
| Horizontal Type - IP67  |                      |       |                  |                  |            |                   |        |
|   | Amp                  | Poles | 230V~<br>50-60Hz | 415V~<br>50-60Hz | Lot size   | MRP (₹)<br>/ Unit |        |
|   | 16                   | 3     |                  | BPX1MIH371       |            | 4                 | 8245   |
|   |                      | 4     |                  |                  | BPX1MIH472 | 4                 | 11615  |
|   |                      | 5     |                  |                  | BPX1MIH572 | 4                 | 11655  |
| Vertical Type - IP44  |                      |       |                  |                  |            |                   |        |
|   | Amp                  | Poles | 230V~<br>50-60Hz | 415V~<br>50-60Hz | Lot size   | MRP (₹)<br>/ Unit |        |
|   | 16                   | 3     |                  | BPX1MIV341       |            | 1                 | 9935   |
|   |                      | 4     |                  |                  | BPX1MIV442 | 1                 | 13910  |
|   |                      | 5     |                  |                  | BPX1MIV542 | 1                 | 13960  |
|   | 32                   | 3     |                  | BPX2MIV341       |            | 1                 | 12975  |
|   |                      | 4     |                  |                  | BPX2MIV442 | 1                 | 15785  |
|   |                      | 5     |                  |                  | BPX2MIV542 | 1                 | 15835  |
|   | 63                   | 3     |                  | BPX3MIV341       |            | 1                 | 28265  |
|   |                      | 4     |                  |                  | BPX3MIV442 | 1                 | 29560  |
|   |                      | 5     |                  |                  | BPX3MIV542 | 1                 | 29610  |
|   | -                    |       |                  |                  |            |                   |        |
|   | Vertical Type - IP67 |       |                  |                  |            |                   |        |
|  | Amp                  | Poles | 230V~<br>50-60Hz | 415V~<br>50-60Hz | Lot size   | MRP (₹)<br>/ Unit |        |
|   | 16                   | 3     |                  | BPX1MIV371       |            | 1                 | 9935   |
|   |                      | 4     |                  |                  | BPX1MIV472 | 1                 | 14120  |
|   |                      | 5     |                  |                  | BPX1MIV572 | 1                 | 14170  |
|   | 32                   | 3     |                  | BPX2MIV371       |            | 1                 | 13185  |
|   |                      | 4     |                  |                  | BPX2MIV472 | 1                 | 15995  |
|   |                      | 5     |                  |                  | BPX2MIV572 | 1                 | 16045  |
|   | 63                   | 3     |                  | BPX3MIV371       |            | 1                 | 28525  |
|   |                      | 4     |                  |                  | BPX3MIV472 | 1                 | 29820  |
|   |                      | 5     |                  |                  | BPX3MIV572 | 1                 | 29875  |
|   | 125A                 | 3     |                  | BPX4MIV371       |            | 1                 | 94125  |
|   |                      | 4     |                  |                  | BPX4MIV472 | 1                 | 102585 |
| 5   |                      |       |                  | BPX4MIV572       | 1          | 102640            |        |

HSN Code : 8536

| Socket Outlet with Duo Interlock and DIN Rail  |                      |       |                  |                  |            |                   |        |
|--|----------------------|-------|------------------|------------------|------------|-------------------|--------|
| Vertical Type - IP44   |                      |       |                  |                  |            |                   |        |
|   | Amp                  | Poles | 230V~<br>50-60Hz | 415V~<br>50-60Hz | Lot size   | MRP (₹)<br>/ Unit |        |
|  | 16                   | 3     |                  | BPX1MID341       |            | 1                 | 10850  |
|  |                      | 4     |                  |                  | BPX1MID442 | 1                 | 16050  |
|  |                      | 5     |                  |                  | BPX1MID542 | 1                 | 16585  |
|  | 32                   | 3     |                  | BPX2MID341       |            | 1                 | 12845  |
|  |                      | 4     |                  |                  | BPX2MID442 | 1                 | 18470  |
|  |                      | 5     |                  |                  | BPX2MID542 | 1                 | 18480  |
|  | 63                   | 3     |                  | BPX3MID341       |            | 1                 | 26170  |
|  |                      | 4     |                  |                  | BPX3MID442 | 1                 | 28605  |
|  |                      | 5     |                  |                  | BPX3MID542 | 1                 | 30335  |
|  | -                    |       |                  |                  |            |                   |        |
|  | Vertical Type - IP67 |       |                  |                  |            |                   |        |
|  | Amp                  | Poles | 230V~<br>50-60Hz | 415V~<br>50-60Hz | Lot size   | MRP (₹)<br>/ Unit |        |
|  | 16                   | 3     |                  | BPX1MID371       |            | 1                 | 11070  |
|  |                      | 4     |                  |                  | BPX1MID472 | 1                 | 16365  |
|  |                      | 5     |                  |                  | BPX1MID572 | 1                 | 16900  |
|  | 32                   | 3     |                  | BPX2MID371       |            | 1                 | 13075  |
|  |                      | 4     |                  |                  | BPX2MID472 | 1                 | 18690  |
|  |                      | 5     |                  |                  | BPX2MID572 | 1                 | 18745  |
|  | 63                   | 3     |                  | BPX3MID371       |            | 1                 | 26450  |
|  |                      | 4     |                  |                  | BPX3MID472 | 1                 | 28920  |
|  |                      | 5     |                  |                  | BPX3MID572 | 1                 | 30610  |
|  | 125A                 | 3     |                  | BPX4MID371       |            | 1                 | 97565  |
|  |                      | 4     |                  |                  | BPX4MID472 | 1                 | 105280 |
| 5  |                      |       |                  | BPX4MID572       | 1          | 105325            |        |



## Metal Clad - Plugs & Sockets Type 'MP' & 'MS'

HSN Code : 8536

| Rating    | Pins   | Type   | Cat No. | MRP [₹] |
|-----------|--------|--------|---------|---------|
| 20A, 250V | 2P + E | Plug   | MP20    | 325     |
|           |        | Socket | MS20    | 360     |
| 30A, 440V | 3P + E | Plug   | MP30    | 745     |
|           |        | Socket | MS30    | 785     |



## Plastic Plugs & Socket Type 'PS'

HSN Code : 8536

| Rating    | Pins | Type                          | Cat No. | MRP [₹] |
|-----------|------|-------------------------------|---------|---------|
| 20A, 250V | 3    | Plug                          | PS16AA7 | 355     |
|           |      | Flush Mounting Socket         | PS16BA7 | 500     |
|           |      | Socket with Wall Mounting Box | PS16DA7 | 620     |
| 20A, 415V | 4    | Plug                          | PS16AA1 | 435     |
|           |      | Flush Mounting Socket         | PS16BA1 | 655     |
|           |      | Socket with Wall Mounting Box | PS16DA1 | 765     |
| 32A, 415V | 3    | Plug                          | PS32AA7 | 750     |
|           |      | Socket                        | PS32BA7 | 750     |
|           | 4    | Plug                          | PS32AA1 | 785     |
|           |      | Socket                        | PS32BA1 | 785     |
|           | 5    | Plug                          | PS32AA5 | 835     |
|           |      | Socket                        | PS32BA5 | 835     |

- Self Locking design : Extremely safe
- Plug cannot be pulled out in fully engaged position
- Auto closing socket shutter
- Reliable Earthing
- Shrouded Terminals for safety

## Heavy duty Metal-Control 'SS'



## Heavy Duty Metal - Control Plugs & Sockets Type 'SS'

HSN Code : 8536

| Rating              | Pins | Type                      | Cat No. | MRP [₹] |
|---------------------|------|---------------------------|---------|---------|
| 12A, 415V (Control) | 12   | Panel Mounting Socket     | 2499/12 | 2695    |
|                     |      | Plug with inclined Handle | 299/12B | 1945    |

## Heavy duty Metal-Power 'SS'



## Heavy Duty Metal - Power Plugs & Sockets Type 'SS'

HSN Code : 8536

| Rating    | Pins | Type                      | Cat No. | MRP [₹] |
|-----------|------|---------------------------|---------|---------|
| 30A, 415V | 3    | Panel Mounting Socket     | 2415B   | 1075    |
|           |      | Plug with inclined Handle | 215B    | 1055    |
| 30A, 415V | 4    | Panel Mounting Socket     | 2413B   | 1125    |
|           |      | Plug with inclined Handle | 213B    | 1100    |
| 30A, 415V | 5    | Panel Mounting Socket     | 2417B   | 1175    |
|           |      | Plug with inclined Handle | 217B    | 1145    |

Note : \*Loose Conduit Box Straight (Cat. No. 9J101) MRP - Rs. 445/- each  
 \*Spare Handle Inclined (Cat. No. 9J108) MRP -Rs. 210/- each.

HSN Code : 8536

## Heavy Duty Metal Plug & Sockets Type 'DS' - 5 Pin (with Integral Switching Device)

HSN Code : 8536

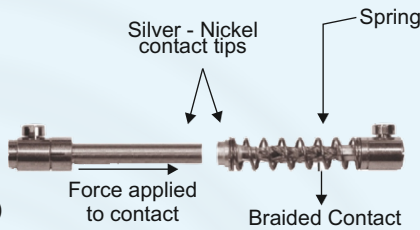
| Rating     | Pins | Type            | Cat No. | MRP[₹] |
|------------|------|-----------------|---------|--------|
| 16A, 415V  | 5    | Plug            | DS1A7A1 | 1745   |
|            |      | Socket          | DS1B7A1 | 2165   |
|            |      | Handle Assembly | SP91PH  | 340    |
| 32A, 415V  | 5    | Plug            | DS3A7A1 | 2850   |
|            |      | Socket          | DS3B7A1 | 3465   |
|            |      | Handle Assembly | SP93PH  | 355    |
| 63A, 415V  | 5    | Plug            | DS6A7A1 | 4540   |
|            |      | Socket          | DS6B7A1 | 6260   |
|            |      | Handle Assembly | SP96PH  | 495    |
| 125A, 415V | 5    | Plug            | DS9A7A1 | 13080  |
|            |      | Socket          | DS9B7A1 | 18695  |
|            |      | Handle Assembly | SP99PH  | 1215   |

Note : Power Receptacles with or without SFU/SDFU/MCB/MCCB having loop-in / loop-out facility is available on request.

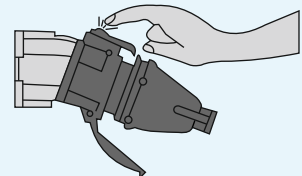


- Range from 16A to 125 A
- 5 Pin configuration ( 3P+N+E)
- Plug cannot come out in ON condition ( Integral Interlocking)

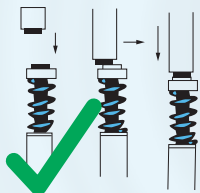
- Spring loaded Butt type contacts  
- Self aligning and self wiping



Quick Disconnect

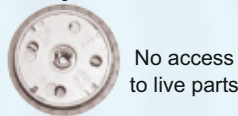


*Sparkless  
Butt type contact*

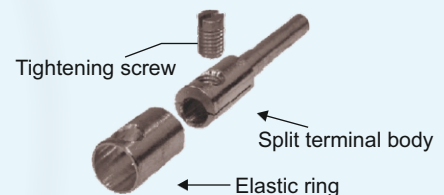


- Self aligning self wiping
- Spring loaded for consistent pressure
- Silver nickle material for extremely low temperature rise

Safety Disk



Vibration proof termination



## Metal Clad - Plug & Socket Box Type 'MPSEU'

HSN Code : 8536

| Rating    | Pins   | Mounting  | Type                               | Cat No.  | MRP [₹] |
|-----------|--------|-----------|------------------------------------|----------|---------|
| 20A, 250V | 2P + E | Universal | Plug & Socket Box - SP-MCB Cutout  | MPSEU201 | 1435    |
| 20A, 250V | 2P + E | Universal | Plug & Socket Box - DP-MCB Cutout  | MPSEU202 | 1435    |
| 30A, 440V | 3P + E | Universal | Plug & Socket Box - TPN-MCB Cutout | MPSEU301 | 3600    |



20A

20A

30A

## Plastic - Plug & Socket Box Type 'PSEU / PSEF'

HSN Code : 8536



| Rating    | Pins | Mounting  | Type                                 | Cat No. | MRP [₹] |
|-----------|------|-----------|--------------------------------------|---------|---------|
| 20A, 250V | 3    | Universal | Plug & Socket Box with SP MCB Cutout | PSEU201 | 1725    |
|           |      |           | Plug & Socket Box with DP-MCB Cutout | PSEU202 | 1770    |
|           |      | Flush     | Plug & Socket Box with SP MCB Cutout | PSEF201 | 1725    |
|           |      |           | Plug & Socket Box with DP-MCB Cutout | PSEF202 | 1770    |
| 32A, 415V | 4    | Universal | Plug & Socket Box with 4P MCB Cutout | PSEU324 | 3735    |
|           |      |           | 5                                    | PSEU325 | 3810    |
|           | 4    | Flush     | Plug & Socket Box with 4P MCB Cutout | PSEF324 | 3735    |
|           |      |           | 5                                    | PSEF325 | 3810    |

## Heavy Duty Metal - Plug & Socket Box Type 'SSEU'

HSN Code : 8536

| Rating    | Pins | Mounting  | Type                                 | Cat No.       | MRP [₹] |
|-----------|------|-----------|--------------------------------------|---------------|---------|
| 30A, 415V | 3    | Universal | Plug & Socket Box with SP MCB Cutout | SSEU303-MCB1P | 4220    |
|           |      |           | Plug & Socket Box with DP MCB Cutout | SSEU303       | 4220    |
|           | 4    | Universal | Plug & Socket Box with 4P MCB Cutout | SSEU304       | 4330    |
|           |      |           | 5                                    | SSEU305       | 4425    |

## Stainless Steel Cover Plug & Socket Box Type 'PSEU-SSC'/SSEU-SSC'

HSN Code : 8536



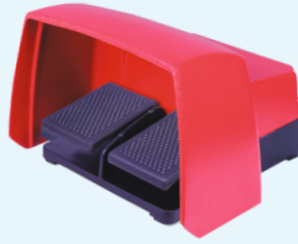
| Rating                 | Pins | Mounting  | Type                                    | Cat No.           | MRP [₹] |
|------------------------|------|-----------|---|-------------------|---------|
| 20A, 250V<br>32A, 415V | 3    | Universal | P&S Box with 'PS' P&S and SP MCB Cutout | PSEU201-SSC       | 2160    |
|                        |      |           | P&S Box with 'PS' P&S and 4P MCB Cutout | PSEU325-SSC       | 4360    |
| 30A, 415V              | 3    | Universal | Plug & Socket Box with SP MCB Cutout    | SSEU303-SSC-MCB1P | 4845    |
|                        |      |           | Plug & Socket Box with DP MCB Cutout    | SSEU303-SSC       | 4845    |
|                        | 4    | Universal | Plug & Socket Box with 4P MCB Cutout    | SSEU304-SSC       | 4960    |
|                        | 5    | Universal | Plug & Socket Box with 3P MCB Cutout    | SSEU305-SSC-MCB3P | 5170    |
|                        |      |           | Plug & Socket Box with 4P MCB Cutout    | SSEU305-SSC       | 5055    |

# BSG Foot Switch



**BSG2M**

- Full Metal Body with Shielded Guard for Pedal
- 2 Positions
- Yellow Colour Shielded Guard for better visibility



**BSG2C**

- Full Metal Body with Shielded Guard for Pedal
- Glass Filled Nylon Pedal
- 2 Positions
- Red Colour Shielded Guard for better visibility



**BSG2P**

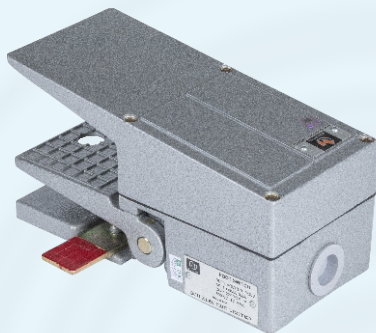
- Full Plastic Body with Shielded Guard for Pedal
- 2 Positions
- Yellow Colour Shielded Guard for better visibility

**HSN Code : 8538**

| BSG Range of Foot switches |  |         |
|----------------------------|--|---------|
| Cat code                   | Description                              | MRP [₹] |
| BSG2MX1                    | FOOT SWITCH METAL GUARD & SHIELD 1NO+1NC | 5660    |
| BSG2MX2                    | FOOT SWITCH METAL GUARD & SHIELD 2NO+2NC | 6070    |
| BSG2CY1                    | FOOT SWITCH DOUBLE PEDAL 2 X 1NO+1NC     | 8705    |
| BSG2PX1                    | FOOT SWITCH PLASTIC GUARD&SHIELD 1NO+1NC | 2720    |
| BSG2PX2                    | FOOT SWITCH PLASTIC GUARD&SHIELD 2NO+2NC | 3130    |

# FSG Foot Switch

**HSN Code : 8536**



| Number of Contact Blocks | Total contacts available | No. of position | Description | Cat. No. | MRP [₹] | Lot Size |
|--------------------------|--------------------------|-----------------|-------------|----------|---------|----------|
| One                      | 1NO+1NC                  | 2               | With Guard  | FSGX1    | 5740    | 1        |
| One                      | 1NO+1NC                  | 2               | With Latch  | FSGX1L   | 6040    |          |
| One                      | 2NO+2NC                  | 2               | With Guard  | FSGX2    | 6225    |          |
| One                      | 2NO+2NC                  | 2               | With Latch  | FSGX2L   | 6500    |          |
| Two                      | 2NO+2NC                  | 2               | With Guard  | FSGY1    | 7030    |          |
| Two                      | 2NO+2NC                  | 2               | With Latch  | FSGY1L   | 7480    |          |
| Two                      | 4NO+4NC                  | 2               | With Guard  | FSGY2    | 8205    |          |
| Two                      | 4NO+4NC                  | 2               | With Latch  | FSGY2L   | 8355    |          |
| Two                      | 2NO+2NC                  | 3               | With Guard  | FSGZ1M   | 7140    |          |
| Two                      | 4NO+4NC                  | 3               | With Guard  | FSGZ2M   | 8180    |          |

Note : Latching unit (with suffix L) is provided with X & Y versions only.

## Spares for Foot Switch

**HSN Code : 8538**

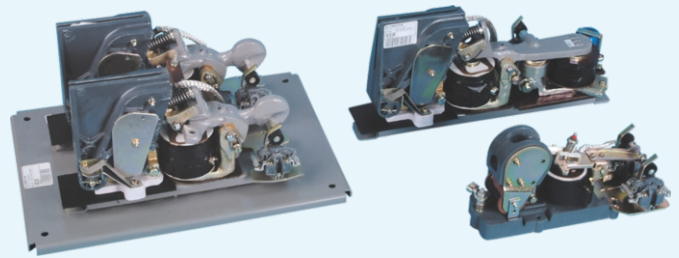


| Description                 | Suitable For | Cat No. | MRP [₹] |
|-----------------------------|--------------|---------|---------|
| Spare Contact Block 1NO+1NC | FSG & BSG    | SP20S1  | 1040    |
| Spare Contact Block 2NO+2NC | FSG & BSG    | SP20S2  | 1330    |
| Spare Cover with Guard      | FSG          | SP20CG  | 2305    |

- 2 Position and 3 Position
- 1NO+1NC/2NO+2NC/4NO+4NC contact blocks
- With Guard
- Oil tight and water tight enclosure for contact block
- Mechanical and electrical life : 10 million operation
- Suited for heavy duty applications such as :
  - Machine Tools
  - Rubber and Tyre making machines
  - SPMs
  - Welding Machines
- Suffix X1 = One Block of 1NO+1NC
- X2 = One Block of 2NO+2NC
- Y1 = Two Blocks of 1NO+1NC
- Y2 = Two Blocks of 2NO+2NC

## DC Mill Duty Contactor HSN Code : 8536

| No. of poles   | (A)               | Auxilliary Contacts           | Cat. No.                            | MRP [₹]                            |
|--|-------------------|-------------------------------|-------------------------------------|------------------------------------|
| <b>50 Amperes</b>  |                   |                               |                                     |                                    |
| Single pole<br>Normally<br>Open                          | 15A<br>25A<br>50A | 2NO+2NC<br>2NO+2NC<br>2NO+2NC | 912x1522<br>912x2522<br>912x5022    | On request<br>On request<br>46340  |
| Double pole<br>Normally<br>Open                          | 15A<br>25A<br>50A | 2NO+2NC<br>2NO+2NC<br>2NO+2NC | D912x1522<br>D912x2522<br>D912x5022 | On request<br>On request<br>99595  |
| Mechanically<br>Interlocked<br>2 Nos. SP NO              | 15A<br>25A<br>50A | 2NO+2NC<br>2NO+2NC<br>2NO+2NC | M912x1522<br>M912x2522<br>M912x5022 | On request<br>On request<br>110455 |
| <b>150 Amperes</b>                                       |                   |                               |                                     |                                    |
| Single pole<br>Normally<br>Open                          | 150A              | 2NO+2NC                       | 914x22                              | 79110                              |
| Double pole<br>Normally<br>Open                          | 150A              | 2NO+2NC                       | D914x22                             | 169605                             |
| Mechanically<br>Interlocked<br>2 Nos. SP NO              | 150A              | 2NO+2NC                       | M914x22                             | 178985                             |
| Single pole<br>Normally<br>Closed                        | 150A              | 1NO+1NC                       | 924x11                              | 81495                              |
| Double Pole<br>Normally<br>Closed                        | 150A              | 2NO+2NC                       | D924x22                             | 172875                             |
| Single pole<br>Normally Open<br>with Holdout<br>Coil #   | 150A              | 1NO+1NC                       | 934x11/#                            | 85765                              |
| Single pole<br>Normally<br>Open with AC<br>Blow out Coil | 150A              | 2NO+2NC                       | 974x22                              | 100295                             |
| <b>300 Amperes</b>                                       |                   |                               |                                     |                                    |
| Single pole<br>Normally<br>Open                          | 300A              | 2NO+2NC                       | 915x22                              | 114880                             |
| Double pole<br>Normally<br>Open                          | 300A              | 2NO+2NC                       | D915x22                             | 244635                             |
| Mechanically<br>Interlocked<br>2 Nos. SP NO              | 300A              | 2NO+2NC                       | M915x22                             | 254335                             |
| Single pole<br>Normally Closed                           | 300A              | 1NO+1NC                       | 925x11                              | 115455                             |
| Double Pole<br>Normally<br>Closed                        | 300A              | 2NO+2NC                       | D925x22                             | 249380                             |
| Single pole<br>Normally Open<br>with Holdout<br>Coil #   | 300A              | 1NO+1NC                       | 935x11/#                            | 124655                             |
| Single pole<br>Normally<br>Open with AC<br>Blow out Coil | 300A              | 2NO+2NC                       | 975x22                              | 145250                             |



- From 50 A to 600 A
- Conforms to NEMA Standards
- Ready to use mechanically interlocked version
- Normally closed version
- Hold on coil for time delay
- Mechanical life : 20 million operation
- Electrical life : 1 million operation

Unique Arc quenching system with blow out coils for switching heavy duty loads

## DC Mill Duty Contactor HSN Code : 8536

| No. of poles   | (A)  | Auxilliary Contacts | Cat. No  | MRP [₹] |
|--|------|---------------------|----------|---------|
| <b>600 Amperes</b>                                       |      |                     |          |         |
| Single pole<br>Normally<br>Open                          | 600A | 2NO+2NC             | 916x22   | 256000  |
| Double pole<br>Normally<br>Open                          | 600A | 2NO+2NC             | D916x22  | 531545  |
| Mechanically<br>Interlocked<br>2 Nos. SP NO              | 600A | 2NO+2NC             | M916x22  | 540160  |
| Single pole<br>Normally<br>Closed                        | 600A | 1NO+1NC             | 926x11   | 263140  |
| Single pole<br>Normally<br>Open with<br>Holdout Coil#    | 600A | 1NO+1NC             | 936x11/# | 325230  |
| Single pole<br>Normally<br>Open with AC<br>Blow out Coil | 600A | 2NO+2NC             | 976x22   | 334735  |

# For 934 / 935 / 936 with holdout coil use hold out suffix code from table on page no.10

\* For coil voltage refer table on page no.10

\* 150, 300 & 600 Amps replace 'x' by 'y' for surface mounting rear connection, 'z' for elevated mounting rear connection

\* Add Rs. 5385/- for AC Control

## Double Pole DC Mill Duty Contactor HSN Code : 8536

| A    | Auxilliary Contacts | Cat. No. | Unit Price [₹] |
|------|---------------------|----------|----------------|
| 150A | 2NO+2NC             | 954x22   | 242085         |
| 300A | 2NO+2NC             | 955x22   | 282455         |

## DC Mill Duty Contactors - Spares

HSN Code : 8538

| Description  | Qty. Reqd. | 50A      |         | 150A     |            | 300A     |            | 600A     |            |
|--|------------|----------|---------|----------|------------|----------|------------|----------|------------|
|  |            | Cat. No. | MRP [₹] | Cat. No. | MRP [₹]    | Cat. No. | MRP [₹]    | Cat. No. | MRP [₹]    |
| DC Arc Chute Assy. Consisting of<br>a. LH Arc Shield<br>b. RH Arc Shield<br>c. DC Blow Out Arc Horn<br>d. DC Blow Out Arc Piece<br>e. DC Blow Out Spacer Assy.<br>f. Polarity Wire<br>g. Latch Strips (Top & Bottom)<br>h. Hardware for Polarity Wire & Latch    | 1 Set      | 9C9J101* | 22975   | 9C9P101  | 39340      | 9C9T101  | 57025      | 9C9V101  | 124110     |
| AC Arc Chute Assy. Consisting of<br>a. LH Arc Shield<br>b. RH Arc Shield<br>c. AC Blow Out Pole Piece<br>d. AC Blow Out Spacer Assy.<br>e. Polarity Wire<br>f. Latch Strips (Top & Bottom)<br>g. Hardware for Polarity Wire & Latch                              | 1Set       | -        | -       | 9C9P102  | On request | 9C9T102  | On request | 9C9V102  | On request |
| Fixed & Moving Contacts  | 1 Set      | 9C9J105  | 5220    | 9C9P105  | 7185       | 9C9T105  | 11650      | 9C9V105  | 31665      |
| Contact Lever with Braid (for Single Pole)   | 1 No.      | 9C9J106  | 6350    | 9C9P106  | 10350      | 9C9T106  | 13695      | 9C9V106  | 23750      |
| Contact Lever with Braid (for Double Pole) <sup>†</sup>  | 1 No.      | 9C9J106  | 6350    | 9C9P106  | 10350      | 9C9T106  | 13695      | 9C9V103  | 23750      |
| Set of Armature Spares Consisting of<br>a. Adjusting Pin<br>b. Contact lever spring<br>c. Contact lever spring pin with circlip<br>d. Armature hinge pin<br>e. Armature Securing pin   | 1 Set      | 9C9J107  | 2170    | 9C9P107  | 3005       | 9C9T107  | 4330       | 9C9V107  | 6285       |
| Set of Armature Spares for 924, 925, 926 Consisting of<br>a. Adjusting Pin<br>b. Contact lever spring<br>c. Contact lever spring pin with circlip<br>d. Armature hinge pin<br>e. Armature Securing pin<br>f. Armature spring<br>g. Spring retaining washer       | 1 Set      | -        | -       | 9C9P108  | 3665       | 9C9T108  | 6455       | 9C9V108  | 7785       |
| Set of Armature Spares for 934/935/936 Consisting of<br>a. Adjusting pin<br>b. Contact lever spring<br>c. Contact lever hinge pin<br>d. Armature hinge pin<br>e. Armature securing pin<br>f. Armature spring<br>g. Spring retaining washer<br>h. Adjusting screw | 1 Set      | -        | -       | 9C9P109  | 4375       | 9C9T109  | 6455       | 9C9V109  | 8265       |
| Terminal Block   | 1          | 9C9J110  | 2930    | 9C9P110  | 3830       | 9C9T110  | 5355       | 9C9V110  | 6685       |
| No Volt Coil for 912, 914, 915, 916, 934, 935 & 936<br>**Suffix voltage code   | 1          | 9C9J111■ | 11725   | 9C9P111■ | 17925      | 9C9T111■ | 23585      | 9C9V111■ | 40625      |
| No Volt Coil for 924, 925, 926<br>**Suffix voltage code  | 1          | -        | -       | 9C9P112■ | 23585      | 9C9T112■ | 36625      | 9C9V112■ | 59160      |
| Coil clamp for 914 & 934   | 1          | -        | -       | 9C9P118  | 415        | -        | -          | -        | -          |
| Coil clamp for 924, 915, 935, 916 & 936  | 1          | -        | -       | 9C9P118  | 415        | 9C9T118  | 415        | 9C9V118  | On request |

- Suffix coil voltage code from table on page 10
- Please add Rs. 5385 for AC control

- \* Only item a to e is supplied in this set
- † For two Poles, need to order for 2 Nos.



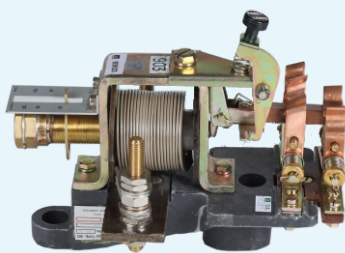
## DC Mill Duty Contactors - Spares & Accessories HSN Code : 8538

| Description                                       | Cat. No.      | MRP [₹] |
|---|---------------|---------|
| 1NO+1NC Auxilliary Contact Block                  | AC10E11       | 9155    |
| 2NO Auxilliary Contact Block                      | AC10E20       | 9155    |
| 2NC Auxilliary Contact Block                      | AC10E02       | 9155    |
| Single unit driver with mounting plate (50A)      | 9C9J115       | 1455    |
| Double unit driver with mounting plate (50A)      | 9C9J116       | 2100    |
| Single unit driver with mounting plate (150-600A) | 9C9P116       | 1575    |
| Double unit driver with mounting plate (150-600A) | 9C9P117       | 2305    |
| Hold out coil for 934, 935 & 936                  | 9C9P113-#     | 28460   |
| Condenser 50 + 50uF for 934, 935 & 936            | 9C9P114       | 1575    |
| Mechanical interlock for 150/300/600A             | AC10M4/M8/M12 | 10200   |
| Rectifier 110/240 V                               | SP30R         | 5385    |

# Suffix hold out coil code from table

## Hold Out Coil Suffix table - 934/935/936

| Hold out coil type | Voltage           | Suffix code |
|--------------------|-------------------|-------------|
| 494-2              | 100/125           | 2           |
| 494-7              | 400/450           | 7           |
| 492-12             | 100/125           | 12          |
| 494-43             | 200/250 & 400/550 | 43          |



- Magnetic Operated Overload relay for heavy duty applications
- From 1.5A to 600A
- Instantaneous and Time delay tripping
- Manual and automatic resetting
- 1NO + 1NC Contacts

## DC Magnetic Overload Relays \*

HSN Code : 8536

| Cat. No. | Coil No. | Continuous Rating | Range Amps  | MRP [₹] |
|----------|----------|-------------------|-------------|---------|
| B3A23    | 159-10   | 2.8               | 1.5 to 3.5  | 27765   |
| B3B23    | 159-5    | 3.9               | 3 to 7      |         |
| B3C23    | 159-4    | 5.4               | 5 to 13     |         |
| B3E23    | 159-3    | 10.9              | 8 to 24     |         |
| B3F23    | 159-2    | 16.9              | 10 to 30    |         |
| B3G23    | 159-1    | 21.9              | 20 to 40    |         |
| B3H23    | 159-8    | 34.9              | 25 to 65    |         |
| B3J23    | 159-6    | 50.0              | 35 to 75    |         |
| B3K23    | 179-39   | 69.0              | 40 to 120   | 32530   |
| B3L23    | 179-38   | 109.0             | 70 to 190   |         |
| B3M23    | 179-37   | 179.0             | 100 to 300  |         |
| B3N23    | 179-36   | 299.0             | 200 to 600  | 35470   |
| B3Y23    | 179-36.2 | 199.0             | 200 to 600  |         |
| B3P23    |          | 549.0             | 300 to 900  | 43145   |
| B3R23    |          | 500.0             | 500 to 1500 |         |

\* With 1NO + 1NC Contacts

## Coil Voltage table - DC Mill Duty Contactor

|              |              | 24V | 48V | 55V | 110V | 220V | 240V | 250V |    |
|--------------|--------------|-----|-----|-----|------|------|------|------|----|
| DC CONTACTOR | PRODUCT      | DC  | DC  | DC  | AC   | DC   | DC   | AC   | F1 |
|              | 912X         | U1  | -   | Q1  | A1R  | A1   | B1   | K1R  | F1 |
|              | 914;934X     | U1  | W1  | Q1  | A1R  | A1   | B1   | K1R  | F1 |
|              | 935X;924;915 | U1  | W1  | Q1  | A1R  | A1   | B1   | K1R  | F1 |
|              | 925          | -   | -   | -   | -    | A1   | B1   | K1R  | F1 |
|              | 916&936      | U1  | W1  | Q1  | A1R  | A1   | B1   | K1R  | F1 |
|              | D912-D916    | -   | W1  | -   | A1R  | A1   | B1   | K1R  | F1 |

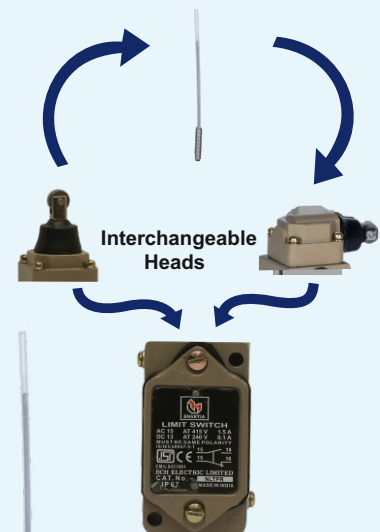
1. For other coil voltages, please contact nearest sales office
2. AC control is not available for 934, 935, 936 versions.
3. For ordering spare coils for D912, D914, D915 and D916 Contactors, please order coils with 50% voltage rating as that of control voltage. Example to order coils for D914 X 22B1 (which is a 220V DC DP Contactor), please order spare coils with 110V DC rating.

## Heavy Duty Limit Switch - Snap Action Type NL IP 67

HSN Code : 8536

| Type         | Description   | Cat. No. Screw Terminal (1NO+1NC) | MRP [₹] | Cat.No. Precabled (1NO+1NC) | MRP [₹] | Cat. No. Screw Terminal (2NO+2NC) | MRP [₹] | Cat. No. Precabled (2NO+2NC)        | MRP [₹] |
|--------------|---|-----------------------------------|---------|-----------------------------|---------|-----------------------------------|---------|-------------------------------------|---------|
| Roller Lever | Standard-38MM<br>Standard-76.2mm<br>Adjustable        | NLL1<br>NLL2<br>NLLA              | 2540    | NLL1C<br>NLL2C<br>NLLAC     | 2770    | NLL1-22<br>NLL2-22<br>NLLA-22     | 3875    | NLL1-22C<br>NLL2-22C<br>NLLA-22C    | 4010    |
|              | Maintained Type<br>Maintained Type<br>Maintained Type | NLL1M<br>NLL2M<br>NLLAM           | 2850    | NLL1MC<br>NLL2MC<br>NLLAMC  | 2995    | NLL1M-22<br>NLL2M-22<br>NLLAM-22  | 4285    | NLL1M-22C<br>NLL2M-22C<br>NLLAM-22C | 4365    |
| Push Roller  | Top<br>Side   | NLTPR                             | 2540    | NLTPRC                      | 2770    | NLTPR-22                          | 3875    | NLTPR-22C                           | 4010    |
|              |   | NLSPR                             | 2790    | NLSPRC                      | 2995    | NLSPR-22                          | 4180    | NLSPR-22C                           | 4365    |
| Push Button  | Top Adjustable<br>Side Adjustable                     | NLTPBA                            | 2540    | NLTPBAC                     | 2770    | NLTPBA-22                         | 3770    | NLTPBA-22C                          | 4010    |
|              |   | NLSPBA                            | 2790    | NLSPBAC                     | 2995    | NLSPBA-22                         | 4180    | NLSPBA-22C                          | 4365    |
| Cat Whisker  | Nylon Rod<br>Steel Rod                                | NLCW                              | 2230    | NLCWC                       | 2400    | NLCW-22                           | 3685    | NLCW-22C                            | 3875    |
|              |   | NLJW                              | 2540    | NLJWC                       | 2715    | NLJW-22                           | 3875    | NLJW-22C                            | 4010    |

- IP 67 degree of Protection
- Choice of 16 Operating Heads
- Interchangeable heads ensures complete modularity and flexibility
- Zinc Die cast body for Heavy duty applications
- Easily replaceable contact blocks
- Precabled version with 2m cable length





## Mini Limit Switch

HSN Code : 8536

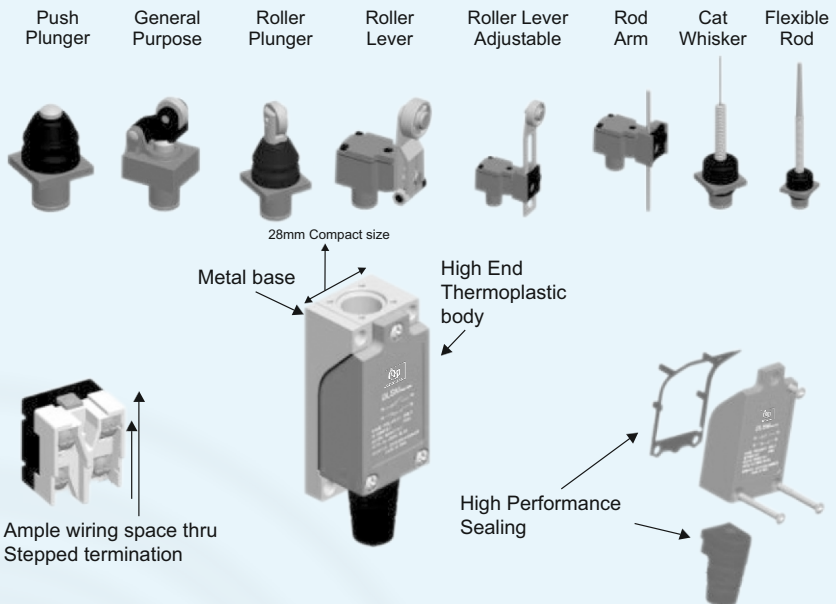
| Type                 |              | Cat. No. | MRP [₹] |
|----------------------|--------------|----------|---------|
| General Purpose Type |              | DLSMAR   | 1615    |
| Top Plunger          | Standard     | DLSMPP   | 1615    |
| Push Roller          | Standard     | DLSMRP   | 1615    |
| Push Roller          | Cross        | DLSMRPX  | 1615    |
| Roller Lever         | 39mm         | DLSMRL   | 1615    |
| Roller Lever         | Adjustable   | DLSMRLA  | 1665    |
| Rod Arm              | Adjustable   | DLSMJWA  | 1665    |
| Cat's Whisker        | Steel Spring | DLSMSW   | 1765    |
| Flexible Rod         | Nylon        | DLSMSR   | 1765    |

- Conforming to IS/IEC 60947-5-1
- Compact Design requiring less mounting space
- Zinc Die cast base & high end polyamide cover ensuring robustness & excellent aesthetics
- Unique Cross bar contacts for enhanced reliability
- Dust proof, Water proof & Oil resistance construction

### Applications

- Lifts and Escalators
- Machine Tools
- Food and Beverages
- Textile Machines
- Packaging & Printing Machines

### Available Operating Heads



## Precision Limit Switch

HSN Code : 8536



- Conforming to IS/IEC 60947-5-1
- Snap action contacts
- Frequency of operation 2500 Operations / hr
- Mechanical life : 20 million operations
- Electrical life : 10 million operations

| Type of Operator    | 1NO+1NC      |         | 2NO+2NC          |         | Lot Size |
|---------------------|--------------|---------|------------------|---------|----------|
|                     | Cat. No.     | MRP [₹] | Cat. No.         | MRP [₹] |          |
| Roller Lever        | PSRL-L or R  | 1110    | PSRL-L-2 or R-2  | 1390    | 1        |
| Six Inch Lever      | PSSIL-L or R | 1110    | PSSIL-L-2 or R-2 | 1390    |          |
| Top Push Roller     | PSTPR*       | 1110    | PSTPR*-2         | 1390    |          |
| Top Push Button     | PSTPB        | 1110    | PSTPB-2          | 1390    |          |
| Type                | Cat. No      | MRP [₹] | Cat. No          | MRP [₹] | Lot Size |
| Spare Contact Block | SP20S1       | 1040    | SP20S2           | 1330    |          |

\* A - Top push roller in line with contact block  
 B - Top push roller perpendicular to contact block

## Limit Switch for 125°C Application\*

HSN Code : 8536

| Type  | Cat. No.                  | MRP [₹] |
|---|---------------------------|---------|
| with 1NO + 1NC<br>Roller Lever<br>Top Push Roller | LL1-150S-M<br>LTPR-150S-M | 9020    |

\*Refer to our nearest sales office for specification & details

## Heavy Duty General Purpose Limit Switch

HSN Code : 8536

|                       |                               |              |      |
|-----------------------|-------------------------------|--------------|------|
| Snap Action<br>Type L | Angular Roller<br>Top Plunger | LLGS<br>LPGS | 1700 |
|-----------------------|-------------------------------|--------------|------|

## Oil Tight Limit Switch - Snap Action Type L IP 65

HSN Code : 8536

| Type         | Description         | Cat. No. | MRP [₹] |
|--------------|---------------------|----------|---------|
| Roller Lever | Standard-38MM       | LL1      | 3640    |
|              | Standard-76.2mm     | LL2      |         |
|              | Adjustable          | LLA      |         |
| Push Roller  | Maintained Type LL1 | LL1M     | 3805    |
|              | Maintained Type LL2 | LL2M     |         |
|              | Maintained Type LLA | LLAM     |         |
| Push Button  | Top                 | LTPR     | 3555    |
|              | Side                | LSPR     | 4000    |
| Push Button  | Top Adjustable      | LTPBA    | 3860    |
|              | Side Adjustable     | LSPBA    |         |
| Cat Whisker  | Nylon Rod           | LCW      | 2915    |
|              | Steel Rod           | LJW      | 3620    |

## Oil Tight Limit Switch - Spares

HSN Code : 8538

| Description                           | Suitable for                            | Cat. No.  | MRP [₹] |
|---------------------------------------|---|-----------|---------|
| 38 mm lever                           | NLL1, LL1                               | SP40L1    | 600     |
| 76.2 mm lever                         | NLL2, LL2                               | SP40L2    | 755     |
| Adjustable lever                      | NLLA, LLA                               | SP40LA    | 755     |
| Operating Head                        | LLGS, LPGS                              | SP40HLG   | 1085    |
| Operating Head                        | Roller Lever Type                       | SP40HL    | 1175    |
| Operating Head<br>Maintained          | Roller Lever Maintained Type            | SP40HLM   | 1350    |
| Operating Head                        | Top Push                                | SP 40HTP* | 1175    |
|                                       | Side Push                               | SP 40HSP* | 1300    |
| Operating Head                        | Cat Whisker Nylon Rod                   | SP40CW    | 805     |
|                                       | Cat Whisker Steel Rod                   | SP40JW    | 1085    |
| Limit Switch Unit Assembly<br>1NO+1NC | Type 'L' & 'NL'<br>(Except LLGS / LPGS) | SP40S1    | 1545    |
| Limit Switch Unit Assembly<br>2NO+2NC | Type 'L' & 'NL'<br>(Except LLGS / LPGS) | SP40S2    | 2815    |
| Limit Switch Unit Assembly<br>1NO+1NC | LLGS / LPGS                             | SP40S1WOM | 1070    |
| Oil tight Conduit                     | Type 'NL'                               | SP40CE    | 640     |

\* B = Button R = Roller

**Bravo Series - Heavy Duty Limit Switch**

HSN Code : 8536

| Type         | Description     | Cat. No. | MRP [₹] |
|--------------|-----------------|----------|---------|
| Roller Lever | Standard-38MM   | BALRL38  | 1500    |
|              | Standard-76.2mm | BALRL76  |         |
|              | Adjustable      | BALRLA   |         |
| Push Roller  | Top             | BALPRT   | 1500    |
|              | Side            | BALPRS   | 1650    |
| Push Button  | Top Adjustable  | BALPBT   | 1500    |
|              | Side Adjustable | BALPBS   | 1650    |
| Cat Whisker  | Nylon Rod       | BALCWN   | 1500    |
|              | Steel Rod       | BALCWS   | 1525    |

**Salient Features:**

- IP 67 degree of Protection
- 1NO+1NC Contact Block
- Choice of 9 Operating Heads
- Aluminium Die-cast body

**New**  
**BRAV** Series  
**LIMIT SWITCH**



**BALRL38**



**BALRL76**



**BALRLA**



**BALPRT**



**BALPBT**



**BALPRS**



**BALPBS**



**BALCWN**



**BALCWS**



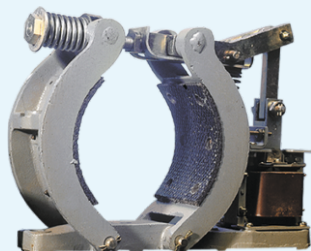
## AC Solenoid - Pull Type

**GST to be charged extra**

**HSN Code : 8505**

| Type | Suitable for             | Stroke Length mm | Max. Pull at rated voltage Kg. | Cat. No.         | List Price [₹] |
|------|--------------------------|------------------|--------------------------------|------------------|----------------|
| B    | S-42                     | 25.0             | 1.25                           | SLB■             | 6120           |
| D    | S-51, S-71<br>S-52, S-72 | 31.4             | 6.75                           | SLD■<br>SLD2■    | 9020           |
| E    | S-250                    | 40               | 10                             | SPSLEM<br>SPSLEB | 19625          |

\* The standard coil voltages are 110, 220 & 415 V 50 Hz. AC



## AC Solenoid Brake - Type S

**GST to be charged extra**

**HSN Code : 8505**

| Type of Brake | Wheel dia. |       | Max. Torque |       | Duty                    | Brake   |                | Drum    |                |
|---------------|------------|-------|-------------|-------|-------------------------|---------|----------------|---------|----------------|
|               | Inch       | mm    | Lb. ft.     | Nm    |                         | Cat No. | List Price [₹] | Cat No. | List Price [₹] |
| S-4           | 4          | 101.6 | 10          | 13.6  | Continuous              | S-42■   | 14405          | AC50D4  | 2345           |
| S-5           | 5.5        | 139.7 | 25          | 34.0  | Continuous Intermittent | S-51■   | 20605          | AC50D5  | 3235           |
|               |            |       | 35          | 48.0  |                         | S-52■   |                |         |                |
| S-7           | 7          | 177.8 | 50          | 68.0  | Continuous Intermittent | S-71■   | 23560          | AC50D7  | 3925           |
|               |            |       | 75          | 102.0 |                         | S-72■   |                |         |                |
| S-250         | 9.84       | 250   | 109         | 147.0 | Continuous              | S-2501M | 50690          | AC50D25 | 7930           |

- The standard coils are 110, 220 & 415 V 50 Hz. AC

■ To complete Cat. No. suffix voltage code given below

- Brake drums are of standard specification

### Range

- Solenoids:
  - Type : SLB - 25 mm stroke length
  - Type : SLD - 31.4 mm stroke length
- AC Brakes
  - 4" Dia
  - 5.5" Dia
  - 7" Dia
- Drums

### Features

- Class F insulation of the coil
- Continuous & Intermittent duty
- Long life & ease of maintenance
- Ideally suited for applications such as :
  - Cranes
  - Hoists
  - Machines
  - Valves
  - Conveyers

## AC Solenoid Brakes - Voltage Codes

| Coil Voltage | 110 | 220 | 415 |
|--------------|-----|-----|-----|
| AC           | A   | B   | M   |

## Spares For AC Solenoid Brake

**GST to be charged extra**

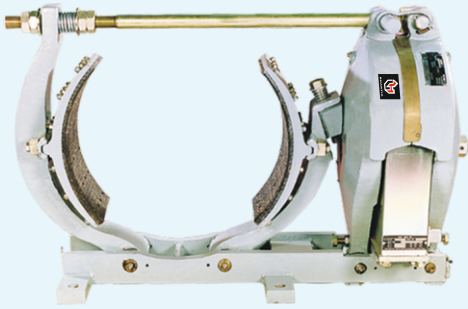
**HSN Code : 8505**

| Description                                | Brake Size : 4" |                | Brake Size : 5.5"      |                | Brake Size : 7.0"      |                | Brake Size : 250mm |                |
|--|-----------------|----------------|------------------------|----------------|------------------------|----------------|--------------------|----------------|
|  | Cat. No.        | List Price [₹] | Cat. No.               | List Price [₹] | Cat. No.               | List Price [₹] | Cat. No.           | List Price [₹] |
| Brake lining                               | SP50L1          | 1720           | SP50L2                 | 2550           | SP50L3                 | 3410           | SP50L4             | 6675           |
| Brake shoe Assembly*                       | SP50SA1         | 5000           | SP50SA2                | 6445           | SP50SA3                | 10625          | SP50SA4            | 21395          |
| Brake Coil<br>-Continuous<br>-Intermittent | SP50MC01■       | 2955           | SP50MC21■<br>SP50MC22■ | 5865           | SP50MC21■<br>SP50MC22■ | 5865           | SP50MC31■          | 15490          |

\* Brake shoe assembly is with lining.

■ To Complete Cat. No. suffix voltage code is given in table, above.

**\*GST to be charged extra on all AC Brakes & Brake Spares**



- Shunt and Series type versions in sizes :  
8 Inch to 30 Inch  
160 mm to 800 mm
- Conforms to NEMA and AISE Standards
- Fail safe operation
- Unique design for maximum torque and minimum shoe wear  
Brakes equivalent to Russian 'TK Π' design also available
- Resistance & rectifier Panel available with option of 'Fuse' or 'MCB' protection



### Optional Features

- Limit Switch Attachment
- Manual Release
- Residual magnetism adjustment



**GST to be charged extra**

**HSN Code : 8505**

### DC Electromagnetic Brakes

| Shunt Type Torque |         |        |                | Resistance & Rectifier Panel (with fuse protection) <sup>+</sup> |                |                            |                |
|-------------------|---------|--------|----------------|--|----------------|----------------------------|----------------|
| Drum Size         | Cat No. | Torque | List Price [₹] | Single Brake   |                | 2 Brakes Simult. Operation |                |
|                   |         | KG-M   |                | Cat No.  | List Price [₹] | Cat No.                    | List Price [₹] |
| 150mm             | SMH150  | 8      | 71150          | CACS1*MAE  | 74480          | CACS2*MAE                  | 103450         |
| 160mm             | SMH160  |        |                |  |                |                            |                |
| 8"/200mm          | SMH8    | 13.8   | 83755          | CACA1*MAE  | 83025          | CACJ2*MAE                  | 107585         |
|                   | SMH200  | 13.8   |                |  |                |                            |                |
| 10"/250mm         | SMH10   | 27.7   | 102815         | CACB1*MAE  | 88095          | CACK2*MAE                  | 121100         |
|                   | SMH250  | 27.7   |                |  |                |                            |                |
| 13"/300mm         | SMH13   | 76.0   | 168315         | CACC1*MAE  | 94990          | CACL2*MAE                  | 141015         |
|                   | SMH300  | 76.0   |                |  |                |                            |                |
| 16"/400mm         | SMH16   | 138.8  | 270925         | CACD1*MAE  | 109375         | CACM2*MAE                  | 153240         |
|                   | SMH400  | 138.8  |                |  |                |                            |                |
| 19"/500mm         | SMH19   | 277.0  | 436765         | CACE1*MAE  | 132250         | CACN2*MAE                  | 193605         |
|                   | SMH500  | 277.0  |                |  |                |                            |                |
| 23"/600mm         | SMH23   | 555.0  | 691245         | CACF1*MAE  | 170515         | CACP2*MAE                  | 244940         |
|                   | SMH600  | 555.0  |                |  |                |                            |                |
| 30"/700mm         | SMH30   | 1242.0 | 1539320        | CACG1*MAE  | 673140         | -                          | -              |
|                   | SMH700  | 1242.0 |                |  |                |                            |                |
| 800mm             | SMH800  | 1242.0 | 1667775        | CACG1*MAE  | 673140         | -                          | -              |

\* For control supply i.e. A=110 V, B=220 V, K =240V and M=415 V AC

- DC Electromagnetic Brakes are suitable to operate on:  
For AC Power - Resistance & Rectifier Panel  
For DC Power - Series Resistance Box

+ For Panel with MCB protection use the suffix '- MCB'  
eg. For 200mm single operation brake panel with MCB protection,  
Cat code will be CACA1\*MAE-MCB

- All Brakes are Supplied for Continuous Duty
- Resistance & Rectifier Panel is supplied without transformer.
- Control Transformer (Optional) can be supplied at extra cost.  
Please add Rs. 9265/- per unit with the LP of Resistance & Rectifier Panel. Please add 'TR' with respective panel cat. ref. to obtain final cat. Code of such panel with control transformer.

**\*GST to be charged extra on all DC Brakes, Brake Spares, Resistance & Rectifier Panel & Resistance Boxes**



**GST to be charged extra**

**HSN Code : 8505**

## Resistance Boxes for DC Electromagnetic Brakes

| Suitable for Shunt Type |            | Permanent Series Resistance Box for 230 V DC Supply For Single Brake |                | Permanent Series Resistance Box for 230 V AC Supply For Single Brake |                | Permanent Economy Resistance Box for 415 V AC Supply For Single Brake |                | Permanent Economy Resistance Box for 415 V AC Supply For Double Brake |                |
|-------------------------|------------|--|----------------|--|----------------|---|----------------|---|----------------|
| Cat No.                 | Torque KGM | Cat No.  | List Price [₹] | Cat No.  | List Price [₹] | Cat No.   | List Price [₹] | Cat No.   | List Price [₹] |
| SMH150 / SMH160         | 8          | CDCS101D   | 9655           | CARS10KE   | 8830           | CARS10ME  | 17820          | CARS20ME  | On request     |
| SMH8 / SMH200           | 13.8       | CDCA101D<br>CDIA101D*  | 10030          | CARA10KE   | 9130           | CARA10ME  | 17820          | CARA20ME  | On request     |
| SMH10 / SMH250          | 27.7       | CDCB101D<br>CDIB101D*  | 11895          | CARB10KE   | 10510          | CARB10ME  | 17820          | CARB20ME  | On request     |
| SMH13 / SMH300          | 76.0       | CDCC101D<br>CDIC101D*  | 13725          | CARC10KE   | 12460          | CARC10ME  | 20395          | CARC20ME  | 27865          |
| SMH16 / SMH400          | 138.8      | CDCD101D<br>CDID101D*  | 14690          | CARD10KE   | 13395          | CARD10ME  | 23705          | CARD20ME  | 29275          |
| SMH19 / SMH500          | 277.0      | CDCE101D<br>CDIE101D*  | 15730          | CARE10KE   | 14355          | CARE10ME  | 26310          | CARE20ME  | On request     |
| SMH23 / SMH600          | 555.0      | CDCF101D<br>CDIF101D*  | 17910          | CARF10KE   | 16120          | CARF10ME  | 28275          | CARF20ME  | On request     |
| SMH30 / SMH700          | 1242.0     | CDCG101D<br>CDIG101D*  | 43370          | -  | -              | CARG10ME  | 48785          | -   | -              |
| SMH800                  | 1242.0     | CDIG101D*  | 43370          | -  | -              | CARG10ME  | 48785          | -   | -              |

1. DC Electromagnetic Brakes are suitable to operate on:  
 For AC Power - Resistance & Rectifier Panel  
 For DC Power - Series Resistance Box

- All Brakes are Supplied for Continuous Duty  
 \* These cat. references are meant for intermittent duty

**\*GST to be charged extra on all DC Brakes, Brake Spares, Resistance & Rectifier Panel & Resistance Boxes.**

**GST to be charged extra**

**Series Type - DC Electromagnetic Brakes**

**HSN Code : 8505**

| Brake Size | Motor Frame No. (Max.) | Half Hour Rating |              |                     | One Hour Rating |              |                     | List Price [₹] |
|------------|------------------------|------------------|--------------|---------------------|-----------------|--------------|---------------------|----------------|
|            |                        | Torque KGM       | Max. FLC (A) | Cat. No.            | Torque KGM      | Max. FLC (A) | Cat. No.            |                |
| 8"/200mm   | 402,802A               | 13.8             | 29           | SME8H1<br>SME200H1  | 8.97            | 21           | SME801<br>SME20001  | 172545         |
|            | 403, 602, 802B         |                  | 44           | SME8H2<br>SME200H2  |                 | 31           | SME802<br>SME20002  | On request     |
| 10"/250mm  | 404,603,802C,          | 27.7             | 57           | SME10H1<br>SME250H1 | 18.0            | 40           | SME1001<br>SME25001 | 246170         |
|            | 406,604,803            |                  | 77           | SME10H2<br>SME250H2 |                 | 57           | SME1002<br>SME25002 | On request     |
| 13"/300mm  | 408,606,804            | 76.0             | 126          | SME13H1<br>SME300H1 | 49.4            | 95           | SME1301<br>SME30001 | 333515         |
|            | 410,608,806            |                  | 176          | SME13H2<br>SME300H2 |                 | 132          | SME1302<br>SME30002 | On request     |
| 16"/400mm  | 412,610,808            | 138.8            | 245          | SME16H1<br>SME400H1 | 90.2            | 185          | SME1601<br>SME40001 | 521945         |
| 19"/500mm  | 414,612,810            | 277.0            | 368          | SME19H1<br>SME500H1 | 180.0           | 272          | SME1901<br>SME50001 | 801845         |
|            | 416,614,812            |                  | 500          | SME19H2<br>SME500H2 |                 | 360          | SME1902<br>SME50002 | On request     |
| 23"/600mm  | 418,616,814            | 555.0            | 740          | SME23H1<br>SME600H1 | 361.0           | 540          | SME2301<br>SME60001 | 1297285        |
|            | 618,816                |                  | 960          | SME23H2<br>SME600H2 |                 | 730          | SME2302<br>SME60002 | On request     |

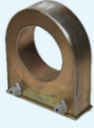










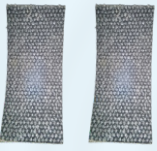
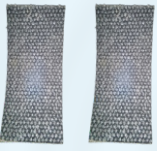


- During ordering, besides brake drum dia, please confirm duty rating, current rating & motor frame Nos.
- Above current ratings are for 230 V DC Series Motors.
- To convert KGM to LB.FT. multiply by 7.25

**\*GST to be charged extra on all DC Brakes, Brake Spares, Resistance & Rectifier Panel & Resistance Boxes.**

**GST to be charged extra**

## Series & Accessories - DC Electromagnetic Brakes

**HSN Code : 8505**

| Description  | 150/160mm                                 |                | 8"/200mm          |                | 10"/250mm         |                | 13"/300mm           |                |
|--|---|----------------|-------------------|----------------|-------------------|----------------|---------------------|----------------|
|  | Cat No.                                   | List Price [₹] | Cat No.           | List Price [₹] | Cat No.           | List Price [₹] | Cat No.             | List Price [₹] |
|  Coil Shunt   | 9GDS01                                    | 51820          | 9GDA01            | 61360          | 9GDB01            | 74165          | 9GDC01              | 117735         |
|  Coil Series for inch for mm  | -   | -              | 9GDA02/<br>9GDA03 | 130720         | 9GDB02/<br>9GDB03 | 204890         | 9GDC02/<br>9GDC03   | 264970         |
|  Torque Adj. Screw Assembly   | 9GDS04                                    | 4725           | 9GDA04            | 4940           | 9GDB04            | 4940           | 9GDC04              | 8590           |
|  Torque Spring  | 9GDS05                                    | 12870          | 9GDA05            | 13440          | 9GDB05            | 15875          | 9GDC05              | 25700          |
|  Wedge Assembly with Bolt, Spring and Washers for inch/mm   | 9GDS20/<br>9GDS22                         | 1840           | 9GDA20/<br>9GDA22 | 2105           | 9GDB20/<br>9GDB22 | 2445           | 9GDC20/<br>9GDC22   | 3730           |
|  Pin set for Lever & Armature Consisting of<br>a) Pin Lever 2 Nos.<br>b) Pin armature 2 Nos.          | 9GDS06                                    | 6490           | 9GDA06            | 6810           | 9GDB06            | 6810           | 9GDC06<br>9GDC06-2# | 8590           |
|  Coller Set of Lever & Armature Consisting of<br>a) Coller Lever 4 Nos.<br>a) Coller Armature 4 Nos. | 9GDS07                                    | 6490           | 9GDA07            | 6810           | 9GDB07            | 6810           | 9GDC07              | 8165           |
|  Bush Set for Lever & Armature Consisting of<br>a) Bush Lever 4 Nos.<br>a) Bush Armature 4 Nos.     | 9GDS08                                    | 12870          | 9GDA08            | 13495          | 9GDB08            | 13495          | 9GDC08              | 14705          |
|  Pull Rod Assembly with nuts, spring & washer   | 9GDS29                                    | 5265           | 9GDA29            | 5510           | 9GDB29            | 6810           | 9GDC29              | 10470          |
| Grease Nipple (1 set consist 8 Nos.)   | 9GDS09                                    | 1840           | 9GDA09            | 1950           | 9GDB09            | 1950           | 9GDC09              | 1970           |
|  Shoe Assembly with Clamp & Bolts (1 set consist 2 Nos.) for inch/mm                                | 9GDS10/<br>9GDS11                         | 13400          | 9GDA10/<br>9GDA11 | 13345          | 9GDB10/<br>9GDB11 | 16550          | 9GDC10/<br>9GDC11   | 26055          |
|  Shoe Lining without Bolts (1 set consist 2 Nos.) for inch for mm                                   | 9GDS12/<br>9GDS13                         | 4545           | 9GDA12/<br>9GDA13 | 4725           | 9GDB12/<br>9GDB13 | 5950           | 9GDC12/<br>9GDC13   | 8590           |
|  Shoe Lining with Bolts (1 set consist 2 Nos.) for inch for mm                                      | 9GDS23/<br>9GDS26                         | 6140           | 9GDA23/<br>9GDA26 | 6810           | 9GDB23/<br>9GDB26 | 8590           | 9GDC23/<br>9GDC26   | 12265          |
|  Dust Cover (made of jeans cloth & painted with fire reterdent al. paint).                          | -   | -              | 9GDA30            | 7580           | 9GDB30            | 7580           | 9GDC30              | 9015           |
|  mm Size Cast Steel Drum without Hard Chrome Plaiting  | 9GDS15/<br>(150mm)<br>9GDS14<br>(160mm)   | 14645          | 9GDA14            | 16115          | 9GDB14            | 24805          | 9GDC14              | 41800          |
| mm Size Cast Steel Drum with Hard Chrome Plaiting  | 9GDS15P/<br>(150mm)<br>9GDS14P<br>(160mm) | 19775          | 9GDA14P           | 23065          | 9GDB14P           | 36010          | 9GDC14P             | 60575          |
|  Cast Steel Drum without Hard Chrome Plaiting* for inch  | -   | -              | 9GDA15            | 16710          | 9GDB15            | 25715          | 9GDC15              | 43470          |
| Cast Steel Drum with Hard Chrome Plaiting* for inch  | -   | -              | 9GDA15P           | 23980          | 9GDB15P           | 36895          | 9GDC15P             | 63040          |

\* For brakes manufactured upto September 07. # For brakes manufactured after September 07 (pins are different).

**\*GST to be charged extra on all DC Brakes, Brake Spares, Resistance & Rectifier Panel & Resistance Boxes.**

**GST to be charged extra**

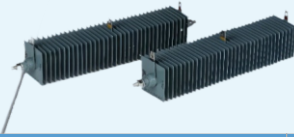
## Spares & Accessories - DC Brakes

**HSN Code : 8505**

| Description   | 16"/400 mm                          |                      | 19"/500 mm |                      | 23"/600 mm |                      | 30"/700 mm/800mm |                        |        |
|---|-------------------------------------|----------------------|------------|----------------------|------------|----------------------|------------------|------------------------|--------|
|   | Cat No.                             | List Price [₹]       | Cat No.    | List Price [₹]       | Cat No.    | List Price [₹]       | Cat No.          | List Price [₹]         |        |
|  Coil Shunt  | 9GDD01                              | 178970               | 9GDE01     | 251275               | 9GDF01     | 394890               | 9GDG01           | 894660                 |        |
|  Coil Series   | for inch<br>for mm                  | 9GDD02<br>9GDD03     | 389855     | 9GDE02<br>9GDE03     | 508515     | 9GDF02<br>9GDF03     | 786070           | -<br>-                 |        |
|  Torque Adj. Screw Assembly  |                                     | 9GDD04               | 12830      | 9GDE04               | 18290      | 9GDF04               | 29235            | 9GDG04                 | 61235  |
|  Torque Spring   |                                     | 9GDD05               | 39485      | 9GDE05               | 54630      | 9GDF05               | 90460            | 9GDG05                 | 194135 |
|  Wedge Assembly with Bolt, for inch<br>for mm                                  |                                     | 9GDD20/<br>9GDD22    | 4940       | 9GDE20/<br>9GDE22    | 7410       | 9GDF20/<br>9GDF22    | 11620            | 9GDG20/<br>9GDG22      | 25730  |
|  Pin set for Lever & Armature<br>Consisting of                                 | for inch<br>for mm                  | 9GDD06*<br>9GDD06-2# | 10470      | 9GDE06*<br>9GDE06-2# | 10470      | 9GDF06*<br>9GDF06-2# | 14705            | 9GDG06 <sup>++</sup>   | 44495  |
| a) Pin Lever 2 Nos.<br>b) Pin Armature 2 Nos.   |                                     |                      |            |                      |            |                      |                  |                        |        |
|  Collar Set of Lever & Armature<br>Consisting of                             |                                     | 9GDD07               | 8165       | 9GDE07               | 8005       | 9GDF07               | 10005            | 9GDG07 <sup>+</sup>    | 16425  |
| a) Coller Lever 4 Nos.<br>b) Coller Armature 4 Nos.   |                                     |                      |            |                      |            |                      |                  |                        |        |
|  Bush Set for Lever & Armature<br>Consisting of                              |                                     | 9GDD08               | 15045      | 9GDE08               | 15760      | 9GDF08               | 20170            | 9GDG08 <sup>++</sup>   | 35880  |
| a) Bush Lever 4 Nos.<br>b) Bush Armature 4 Nos.   |                                     |                      |            |                      |            |                      |                  |                        |        |
|  Pull Rod Assembly with nuts,<br>spring & washer                             |                                     | 9GDD29               | 15875      | 9GDE29               | 21955      | 9GDF29               | 29500            | 9GDG29                 | 77165  |
|  Grease Nipple ( 1 set consist 8 Nos.)                                       |                                     | 9GDD09               | 2005       | 9GDE09               | 3450       | 9GDF09               | 3450             | 9GDG09                 | 3815   |
|  Shoe Assembly with Clamp & Bolts for inch<br>( 1 set consist 2 Nos.)        | for mm                              | 9GDD10/<br>9GDD11    | 39545      | 9GDE10/<br>9GDE11    | 54705      | 9GDF10/<br>9GDF11    | 87460            | 9GDG10/<br>9GDG11      | 196820 |
|   |                                     |                      |            |                      |            |                      |                  | 9GDG11A <sup>+++</sup> | 202945 |
|  Shoe Lining without Bolts   | for inch<br>( 1 set consist 2 Nos.) | 9GDD12/<br>9GDD13    | 13460      | 9GDE12/<br>9GDE13    | 21955      | 9GDF12/<br>9GDF13    | 32480            | 9GDG12/<br>9GDG13      | 61370  |
|   |                                     |                      |            |                      |            |                      |                  | 9GDG13A <sup>+++</sup> | 62585  |
|  Shoe Lining with Bolts  | for inch<br>( 1 set consist 2 Nos.) | 9GDD23/<br>9GDD26    | 16550      | 9GDE23/<br>9GDE26    | 27380      | 9GDF23/<br>9GDF26    | 42540            | 9GDG23/<br>9GDG26      | 75895  |
|   |                                     |                      |            |                      |            |                      |                  | 9GDG26A <sup>+++</sup> | 82445  |
|  Dust Cover (made of jeans cloth &<br>painted with fire reterdent al. paint). |                                     | 9GDD30               | 9755       | 9GDE30               | 12060      | 9GDF30               | 12650            | 9GDG30                 | 16390  |
|  mm Size Cast Steel Drum without<br>Hard Chrome Plaiting                      |                                     | 9GDD14               | 52265      | 9GDE14               | 85075      | 9GDF14               | 118320           | -                      | -      |
|  mm Size Cast Steel Drum with<br>Hard Chrome Plaiting                         |                                     | 9GDD14P              | 77805      | 9GDE14P              | 124275     | 9GDF14P              | 181000           | -                      | -      |
|  Cast Steel Drum without Hard<br>Chrome Plaiting*                             | for inch                            | 9GDD15               | 54505      | 9GDE15               | 89065      | 9GDF15               | 121565           | -                      | -      |
|  Cast Steel Drum with Hard<br>Chrome Plaiting*                                | for inch                            | 9GDD15P              | 81320      | 9GDE15P              | 130290     | 9GDF15P              | 189685           | 9GDG15P                | 321375 |

\* For brakes manufactured upto September 07. # For brakes manufactured after September 07 (pins are different).  
+ Consist of strap, Brass Shim & spring Plate ++ Only for Armature +++ Suitable for 800mm

**\*GST to be charged extra on all DC Brakes, Brake Spares, Resistance & Rectifier Panel & Resistance Boxes.**



**GST to be charged extra**

## Spare Selenium Type Bridge Rectifiers

**HSN Code : 8505**

| Rectifier Code / Part No. | Recommended to operate brake at 415V AC |                            | Qty. per set | List Price [₹] |
|---------------------------|---|----------------------------|--------------|----------------|
|                           | Individual                              | Simultaneous               |              |                |
| 9GDX01                    | 1x8"/200mm                              | -                          | 2            | 15940          |
| 9GDX02                    | 1x10"/250mm                             | 2x8"/200mm                 | 2            | 23790          |
| 9GDX03                    | 1x13"/300mm<br>1x16"/400mm              | 2x10"/250mm                | 2            | 32215          |
| 9GDX04                    | 1x19"/500mm                             | 2x13"/300mm<br>2x16"/400mm | 2            | 42540          |
| 9GDX05                    | 1x23"/600mm                             | 2x19"/500mm                | 2            | 60665          |
| 9GDX06                    | -                                       | 2x23"/600mm                | 2            | 121385         |
| 9GDX07                    | 1x30"/700 & 800mm                       | -                          | 2            | 168320         |



**GST to be charged extra**

## Spare Resistances

**HSN Code : 8505**

| Used in resistance and rectifier panels  | Cat. No. | Ohms | Watts | List Price [₹] |
|--|----------|------|-------|----------------|
| CACA1*, CACB1*, CACC1*, CACD1*, CACJ2*   | 9GDX32   | 32   | 200   | 2830           |
| CACA1*, CACB1*, CACC1*, CACF1*, CACG1*, CACL2*, CACP2*, CACJ2*                         | 9GDX42   | 42   | 200   |                |
| CACS2*   | 9GDX47   | 47   | 200   |                |
| CACB1*, CACE1*, CACF1*, CACG1*, CACJ2*, CACK2*, CACM2*, CACN2*                         | 9GDX52   | 52   | 200   |                |
| CACS1*   | 9GDX64   | 64   | 100   |                |
| CACA1*, CACB1*, CACD1*, CACE1*, CACF1*, CACG1*, CACJ2*, CACK2*, CACM2*, CACN2*, CACP2* | 9GDX80   | 80   | 200   |                |
| CACA1*, CACD1*, CACK2*, CACL2*   | 9GDX112  | 112  | 200   |                |
| CACS1*, CACS2*   | 9GDX112A | 112  | 125   |                |

**GST to be charged extra**

## Optional Features - DC Brakes

**HSN Code : 8505**

| Brakes Size |             | Manual Release List Price [₹] | Residual Magnetism Adjustment List Price [₹] | Limit Switch Attachment List Price [₹] |                 |
|-------------|-------------|-------------------------------|--|--|-----------------|
| Inch        | mm          |                               |  | 1NO+1NC (LSA)                          | 2NO+2NC (LSA-2) |
| 8           | 150/160/200 | 6160                          | 5865   | 12175                                  | 12825           |
| 10          | 250         | 6160                          | 6875   |  |                 |
| 13          | 300         | 8445                          | 10215  |  |                 |
| 16          | 400         | 9060                          | 15235  |  |                 |
| 19          | 500         | 14065                         | 21130  |  |                 |
| 23          | 600         | 19705                         | 23865  |  |                 |

Note : Suffix following codes to complete brakes code with optional features.

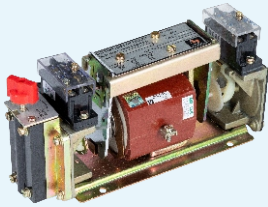
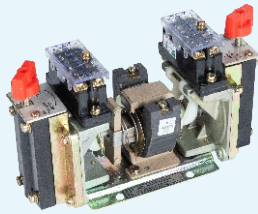
- MR = For Manual Release
- RM = For Residual Magnetism
- LS = For Limit Switch (1NO+1NC)
- LS-1 = For Limit Switch (2NO+2NC)
- RR = For Manual Release + Residual Magnetism
- RL = Residual Magnetism + Limit Switch
- ML = For Manual Release + Limit Switch
- RS = For Manual Release + Residual Magnetism + Limit Switch

**To order Spare Limit Switch assembly, cat codes are:**

- LSA = Limit Switch with fitting Arrangement (1NO + 1NC)
- LSA -2 = Limit Switch (2NO + 2NC) with fitting Arrangement

**\*GST to be charged extra on all DC Brakes, Brake Spares, Resistance & Rectifier Panel & Resistance Boxes.**

## Pneumatic Timer



- 30 sec / 60 sec/180 sec
- AC and DC Supply
- 1 NO+1NC / 2 NO+2NC Contact Blocks
- Completely enclosed timing head ensures excellent timings in adverse environmental conditions
- Encapsulated coil for better resistance against moisture and corrosion
- Completely maintainable i.e Coil , Contact blocks and Timing head can be replaced
- Special timer for Railway application



## Pneumatic Timers Time Delay Relay-Electro Pneumatic

HSN Code : 9107

| Type | Time Range (Secs.) | Contact Configuration |                     | Cat No.    | MRP [₹] |       |
|------|--------------------|-----------------------|---------------------|------------|---------|-------|
|      |                    | Time Block            | Instantaneous Block |            | AC      | DC    |
| PN   | 0.05 - 30 Sec      | 1NO + 1NC             | -                   | KRTPN10-0  | 6135    | 9195  |
|      | 0.05 - 60 Sec      | 1NO + 1NC             | -                   | KRTPN10-1  | 6345    | 9705  |
|      | 0.05 - 180 Sec     | 1NO + 1NC             | -                   | KRTPN10-3  | 7170    | 10585 |
|      | 0.05 - 30 Sec      | 2NO + 2NC             | -                   | KRTPN20-0  | 6895    | 9840  |
|      | 0.05 - 60 Sec      | 2NO + 2NC             | -                   | KRTPN20-1  | 7040    | 9960  |
|      | 0.05 - 180 Sec     | 2NO + 2NC             | -                   | KRTPN20-3  | 7570    | 10695 |
| PNI  | 0.05 - 30 Sec      | 1NO + 1NC             | 1NO + 1NC           | KRTPN11-0  | 7480    | 10700 |
|      | 0.05 - 60 Sec      | 1NO + 1NC             | 1NO + 1NC           | KRTPN11-1  | 8485    | 11685 |
|      | 0.05 - 180 Sec     | 1NO + 1NC             | 1NO + 1NC           | KRTPN11-3  | 9285    | 11825 |
|      | 0.05 - 30 Sec      | 2NO + 2NC             | 2NO + 2NC           | KRTPN22-0  | 9375    | 12210 |
|      | 0.05 - 60 Sec      | 2NO + 2NC             | 2NO + 2NC           | KRTPN22-1  | 9475    | 12845 |
|      | 0.05 - 180 Sec     | 2NO + 2NC             | 2NO + 2NC           | KRTPN22-3  | 10155   | 13585 |
| Type | Time Range (Secs.) | On-Delay Block        | Of-Delay Block      | Cat No.    | AC      | DC    |
| PCN  | 0.05 - 30 Sec      | 1NO + 1NC             | 1NO + 1NC           | KRTPCN11-0 | 10125   | 13560 |
|      | 0.05 - 60 Sec      | 1NO + 1NC             | 1NO + 1NC           | KRTPCN11-1 | 10635   | 13670 |
|      | 0.05 - 180 Sec     | 1NO + 1NC             | 1NO + 1NC           | KRTPCN11-3 | 12080   | 15105 |
|      | 0.05 - 30 Sec      | 2NO + 2NC             | 2NO + 2NC           | KRTPCN22-0 | 11380   | 14880 |
|      | 0.05 - 60 Sec      | 2NO + 2NC             | 2NO + 2NC           | KRTPCN22-1 | 11925   | 15055 |
|      | 0.05 - 180 Sec     | 2NO + 2NC             | 2NO + 2NC           | KRTPCN22-3 | 13450   | 16415 |

PN, PNI Time Delay Relay will be supplied only as on-delay

- To complete Cat. No. Suffix Voltage code from Table

## Timer for Railway Application

HSN Code : 9107

| Type | Time (Secs.) | Contact Configuration |                     | Cat No.     | MRP [₹] |    |
|------|--------------|-----------------------|---------------------|-------------|---------|----|
|      |              | Time Block            | Instantaneous Block |             | AC      | DC |
| PN   | 120          | 2NO + 2NC             | -                   | KRTPN20A-2R | 7375    | -  |
|      | 150          | 2NO + 2NC             | -                   | KRTPN20A-3R | 7375    | -  |

## Accessories for Time Delay Relay HSN Code : 9107

| Description                        | Cat. No.    | MRP [₹] | Lot Size |
|------------------------------------|-------------|---------|----------|
| Contact Block                      |             |         |          |
| 1NO+1NC Timed                      | SP20S3+     | 1350    | 1        |
| 2NO+2NC Timed                      | SP20S4+     | 1765    |          |
| 1NO+1NC Inst.                      | SP20S5+     | 1350    |          |
| 2NO+2NC Inst.                      | SP20S6+     | 1765    |          |
| Magnet Coil                        |             |         |          |
| AC-PN Relays                       | SP20MC      | 1900    | 1        |
| AC-PNI & PCN Relays                | SP20MC1     | 1900    |          |
| DC Relays                          | SP20MC2     | 6140    |          |
| Return Spring*                     |             |         |          |
| (PNI & PCN)                        | SP20RS      | 325     | 1        |
| Coil Clip*                         | SP20CC      | 515     |          |
| Magnet frame assembly without coil | SP20 MAIMA1 | 2765    | 1        |
| Knob assembly                      | SP20KA      | 100     | 10       |

\* These are supplied with plastic cover

\* For DC Timers only

- To complete suffix voltage code refer to the table

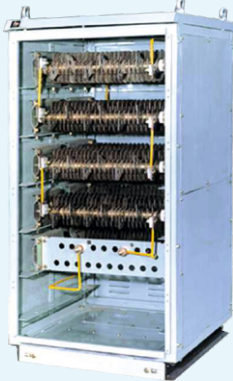
- High Repeat Accuracy
- Operating Temperature - 40<sup>0</sup> to +65<sup>0</sup>
- Mechanical and Electrical Life - 10 million operations

## Voltage Suffix Code

| Coil Voltage    | 24 | 110 | 220 | 240 | 415 |
|-----------------|----|-----|-----|-----|-----|
| AC Suffix Code* | U  | A   | B   | K   | M   |
| DC Suffix Code  | U1 | A1  | B1  | K1  | -   |

\* KRTPN timers with 550V AC coil voltage, Prices available on request

## Punched Grid Resistors



### Applications:

- Speed Control Resistors
- Starting Resistors for AC and DC Motors
- Dynamic Braking Resistors
- Neutral Grounding Resistors (upto 11KV)

### Features

- Special Chromium Steel Alloy (AISI406) for :
  - a) Higher resistivity (approx 70% higher than others)  
This results in overall light and compact unit
  - b) Low temperature coefficient (approx 72% lower than others)  
This means negligible change in resistance values despite grid temperature variations (very important parameter in applications like crane controls)
  - c) Unbreakable and corrosion free Grids . Suitable for extreme vibration conditions
  - d) Drawout type of banks for ease of removal while replacements
  - e) Three rod construction for higher range resistance grid for improved mechanical strength
  - f) Individual grids are T.I.G. welded for consistent current path
  - g) Unique design using staggered grid pattern ensuring maximum air circulation
  - h) Terminal designed for 2 types of conductors ensuring flexibility

We also manufacture NGRs & DBRs

## GST to be charged extra on PGR Prices

PGRs are 10 minutes rated.

Temp. rise : 375 deg over ambient

Dimensions in mm (WxHxD) : 673x152x250 HSN Code - 8533

| Type   | Resistance Per Bank | Continuous Rating | LP    |
|--------|---------------------|-------------------|-------|
|        | Ohms                | Amps              | [₹]   |
| WL10   | 0.1                 | 225               | 26725 |
| WL12   | 0.125               | 200               | 23640 |
| WL16   | 0.16                | 180               | 27315 |
| WL20   | 0.2                 | 150               | 27885 |
| WL25   | 0.25                | 134               | 24625 |
| WL32   | 0.32                | 118               | 21800 |
| WL40   | 0.4                 | 113               | 25215 |
| WL50   | 0.5                 | 100               | 21300 |
| WL62   | 0.62                | 84                | 27490 |
| WL80   | 0.8                 | 75                | 24910 |
| WL100  | 1                   | 67                | 23155 |
| WL125  | 1.25                | 64                | 25775 |
| WL160  | 1.6                 | 57                | 22245 |
| WL200  | 2                   | 54                | 24760 |
| WL250  | 2.5                 | 48                | 21860 |
| WL320  | 3.2                 | 43                | 19150 |
| WL400  | 4                   | 40                | 26665 |
| WL500  | 5                   | 35                | 19350 |
| WL625  | 6.25                | 33                | 22100 |
| WL800  | 8                   | 29                | 20620 |
| WL1200 | 12                  | 21                | 22100 |
| WL1600 | 16                  | 19                | 21440 |

Dimensions in mm (WxHxD) : 800x152x250 HSN Code - 8533

| Type       | Resistance Per Bank | Continuous Rating | LP    |
|------------|---------------------|-------------------|-------|
|            | Ohms                | Amps              | [₹]   |
| WLL20(M)-1 | 0.325               | 150               | 43360 |
| WLL25(M)-1 | 0.54                | 134               | 41455 |
| WLL32(M)-1 | 0.68                | 118               | 35155 |
| WLL50(M)-1 | 0.864               | 100               | 29790 |

# ACB's, MCCB's & FDP Products



**ULTRA**  
**POWER**  
Air Circuit Breakers

## Ultra Power ACB's

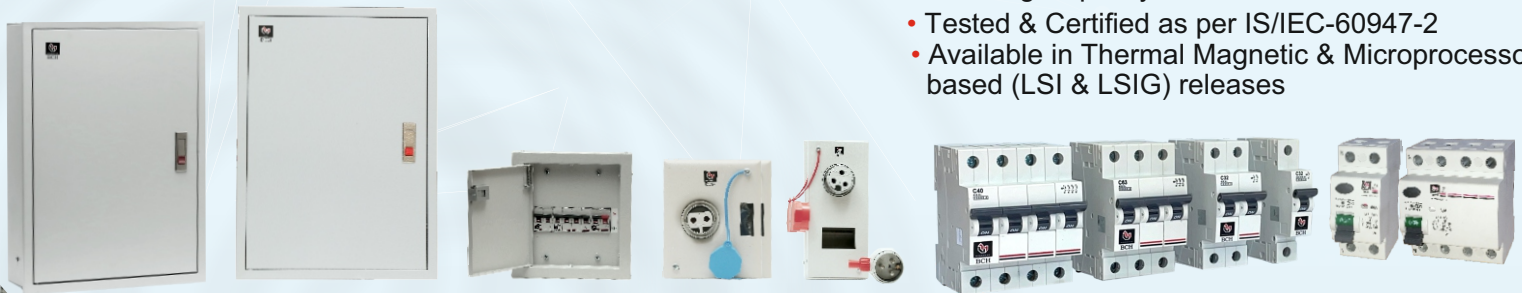
- Range: 800A to 6300A in 3 frames
- Complete range conforms to IS/IEC 60947-2
- Manually & Electrically operated, Fixed/Draw-out versions
- Microprocessor based releases in basic & advance version
- $I_{cu}=I_{cs}=I_{cw}$  for 1 sec for total selectivity
- Modular & snap-fit accessories
- RoHS Compliant



## X-Range MCCB's



- 3P range: 10A-1250A
- 4P range: 20A-1250A
- Breaking Capacity : 10kA to 50kA
- Tested & Certified as per IS/IEC-60947-2
- Available in Thermal Magnetic & Microprocessor based (LSI & LSI) releases



## FDP Products

MCB, RCCB, Isolator & Distribution Boxes

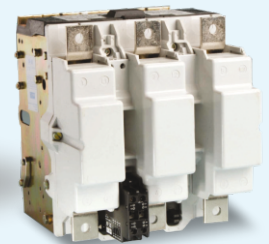
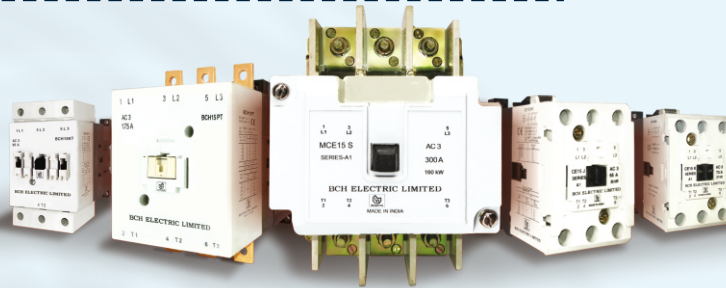
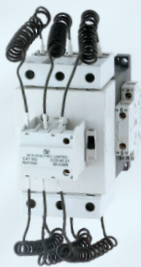
For above products, please refer "Control & Switchgear Products" price list

# Controlgear



- BRAVO SERIES CONTACTORS
- FREEDOM / FS1 CONTACTORS
- CITATION SERIES
- AGRI CONTACTORS
- CAPACITY DUTY CONTACTORS
- DEFINITE PURPOSE CONTACTORS

- **Contactors**
- **Overload Relays**
- **Electronic Over Current Relay**
- **Motor Protection Circuit Breaker**
- **Solid State Relay**



For above products, please refer "Control & Switchgear Products" price list

# Motor Starters

## Shakti DOL & Star Delta Starters



- DOL & Star Delta upto 24 A relay range
- Heavy duty 4 Pole Contactor
- Wide Band coil voltages (190-400V, 230-420V, 220-240V, 380-415V)
- Encapsulated & Hermetically sealed coil
- Automatic star delta with electronic timer for reliable changeover from star to delta
- Selection of manual & auto resetting of overload relay



## Citation DOL & Star Delta Starters

- Citation DOL & Star Delta Starters
- DOL upto 40 HP
- Semi Automatic upto 40 HP
- Fully Automatic upto 375 HP
- Heavy Duty 4 Pole Contactor
- Wide Band Coil Voltage (230-360V, 260-400V, 380-415V)
- Automatic Star Delta with Electronic Time for Reliable Changeover from Star to Delta
- Selection of Manual & Auto Resetting of Overload Relay



## Shakti & Citation P Auto DOL starters

| Parameter         | Shakti Auto DOL                                  | Citation P Auto DOL   |
|-------------------|--|---|
| Range             | Upto 24A Relay                                   | Upto 40A Relay or 22.5 HP                                   |
| ON delay time     | 5 sec or 5 min option                            | 5 sec to 5 min (Field adjustable)                           |
| Mode of operation | Auto/Manual/Manual SPP with selector switch      | SPP with integrated Auto/Manual SPP/ Bypass selector switch |
| Protections       | Phase reversal, Phase imbalance & Single phasing |   |

## BK1 DOL & Semi Automatic Star Delta starters



- Range: DOL upto 7.5 H.P
- Range: Star Delta upto 15 H.P
- Wide Band Coil 250-400 V AC & 200-400 VAC

- Starter With 2 Pole CPGN Contactor and 2 Pole Overload Relay
- Encapsulated & Hermetically Sealed Coil
- Selection of Manual & Auto Resetting of Overload Relay
- Power Coated Deep Drwan Sheet Steel Enclosure for Excellent Finish & Durability

## 1-Phase DOL Starter



## Mini Manual Starters



- Range Available upto 10 HP (3PH) & upto 3HP (1PH)
- Flush & Base Mounting Version Available
- Trips Automatically in Low Voltage Conditions (with UV Coil)
- Prevents Motor From Restarting When Powder Comes Back

For above products, please refer "Control & Switchgear Products" price list

# Enclosure Systems



- Bhartia Enclosure 2.0
- Terminal Box 2.0
- 'BCH-SS' (Stainless Steel) Boxes
- Terminal Boxes
- Bhartia Boxes
- TCE Series Enclosure
- Techno - Modular Enclosures
- Compartmentalized Enclosure (Fixed & Draw-out)
- Control Desk
- IT Racks - 19" and ETSI Racks
- Non Metallic Enclosure

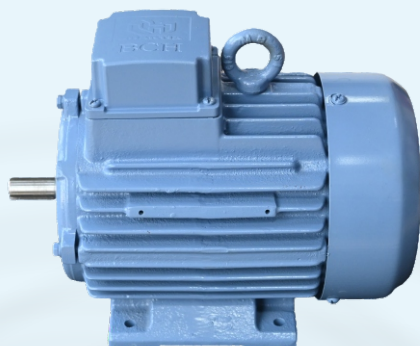


For above products, please refer "Enclosures" price list

# Motors

## IE2, IE3 & IE4

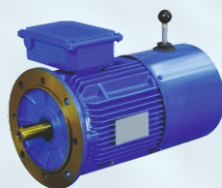
50°C  
ambient temperature



- Wide Range
- Range: 0.16 HP to 425 HP
- Robust Design - IE2/IE3/IE4 Versions
- Dynamically Balanced Motors
- Corrosion-Resistant Stator Frames
- High Efficient Stator Laminations With Superior Low Loss CRNGO Steel
- Full Tropicalised Design for Indian Conditions
- Class F Insulation
- Six Terminal Terminal Box Across the Range
- Various Mounting Possibilities
- Superior Aesthetics - RAL-5014 Paint Shade As Standard
- Customised Motore Design Capability
- Compatible A.C Drive & Soft Starter Range
- Nationwide sales & service network



**Crane Duty Motors**  
Power:0.18 to 200.0 kW



**Brake Motors**  
Power:0.12 to 55.0 kW



**Multi Speed Motors**  
Power:0.12 to 150.0 kW



**Duplex Cooling Motors**  
Power:160.0 to 500.0 kW



**Fire Fighting Motors**  
Power: 3.7 to 250.0 kW

- Manufacturing in Quality Assurance System Compliant With ISO 9001

# Power Factor Control Products



- LT Power Capacitors - Cylindrical Type
- LT Power Capacitors - Box Type
- Freedom Series Capacitor Duty Contactor
- Super Heavy Duty Box Type Capacitor
- Detuned Reactors
- Thyristor Switched Module
- Automatic Power Factor Controllers (APFC) & Intelligent Power Factor Controllers (IPFC)
- Network Analysers
- APFC Panels

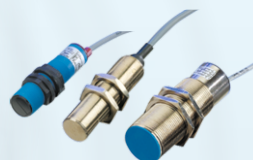


For above products, please refer "Control & Switchgear Products" price list

# Automation Products



- AC Drives
- Digital DC Drives
- Soft Starters
- e-prox Sensors
- Plug-in Relays
- Electronic Timers



For above products, please refer "Control & Switchgear Products" price list



**BCH**

# Price List

## General Terms & Conditions

Prices are subject to change without any prior notice and will be applicable as prevailing at the time of dispatch.

- The prices are ex-works basis..
- The prices given in this list are effective as on date and are subject to change without notice.
- The List Prices (LP) mentioned are exclusive of GST.
- The duties, taxes and other statutory levies are based on rates prevailing at the time of billing. Any subsequent revision of those rates having retrospective effective shall be to customer's account.
- In case where any GST exemption has been claimed, the purchaser is responsible for providing the necessary GST exemption form within the specified period, failing which the purchaser would be liable for the payment of full GST plus applicable interest and penalties
- All Prices are in Indian Rupees (₹).
- Alteration made after receipt of confirmation of order are subject to price & delivery revisions and any other expenses or levies
- The dispute, if any, will be resolved mutually by discussion. However, if no settlement is forthcoming then, the Courts at New Delhi shall only have territorial jurisdiction to hear and decide the dispute.

## Warranty

All products, unless specifically mentioned otherwise, shall have warranty, against manufacturing defects for a period of 18\* months from the date of invoicing & 24 months from date of manufacturing whichever is later subject to the provision of proper usage and does not cover defects arising out of fire, accident, inefficient maintenance, faulty operation and willful or accidental damage. The manufacturer shall not be liable for any consequential loss, injury or damages attributable to defect or failure of its products.

\* Proof of purchase to be retained to avail warranty.

a strong commitment  
to serve better  
always ...



**Switchgear | Controlgear | Enclosures | Motor Starters & Submersible Pump Starters |  
Brakes and Crane Controls | MCC | PCC | Customised Solutions | Automation |  
Wires & Cables | Motors | Reactive Power Management**



**BCH  
ELECTRIC  
LIMITED**

[www.bchindia.com](http://www.bchindia.com)

- Power Control Products
- Starters & Submersible Pump Starters
- Industrial Enclosures
- Industrial Products
- Wires & Cables
- Motor Control Products
- Power Bus Duct
- Customised Solution
- Automation



# BCH ELECTRIC LIMITED



[www.bchindia.com](http://www.bchindia.com)



**1800-103-9262**

[customercare@bchindia.com](mailto:customercare@bchindia.com)

Visit us at : [www.bchindia.com](http://www.bchindia.com)

**Registered & Corporate Office :** 1105, New Delhi House, 27, Barakhamba Road, New Delhi - 110 001 Tel. : 91-11- 43673100

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**Works 1 :** 20/4, Mathura Road, Faridabad - 121 006 (Haryana) Tel. : 0129-4063000/4293000 Fax : 0129-2304016

**Works 2 :** 64-68, Sector-7, IIE, Pant Nagar, Rudrapur, Udham Singh Nagar - 263 153 (Uttarakhand) Tel. : 05944-250214/16 Fax : 05944-250215

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Beside Shyamal Iconic,  
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Ahmedabad - 380015  
E-mail: [ahmedabad@bchindia.com](mailto:ahmedabad@bchindia.com)

**Bangalore**  
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K.H. Road (Double road),  
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Tel. : 080-41144879 / 22236759  
E-mail : [bangalore@bchindia.com](mailto:bangalore@bchindia.com)

**Bhubaneswar**  
Mallick Commercial  
Complex Plot No.: A/69, unit - 3  
Bhubaneswar - 751 001  
Tel. : 0674-2380988  
E-mail: [bhubaneswar@bchindia.com](mailto:bhubaneswar@bchindia.com)

**Chandigarh (Panchkula)**  
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019 Tel. : 011-45720334  
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Fax : 040-66207273  
E-mail : [hyderabad@bchindia.com](mailto:hyderabad@bchindia.com)

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E-mail : [indore@bchindia.com](mailto:indore@bchindia.com)

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Tel. : 0522-4025597/4025997  
E-mail : [lucknow@bchindia.com](mailto:lucknow@bchindia.com)

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Petrol Pump, VIP Chowk,  
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**Vadodara**  
301, Third Floor, "Florence Classic",  
10, Ashapuri Co-Op. Hsg. Soc. Ltd., Opp. VUDA  
Housing, Near Cow Circle, Akota, Vadodara - 390 020  
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**Resident Engineer Locations**

|            |          |           |            |               |             |             |               |
|------------|----------|-----------|------------|---------------|-------------|-------------|---------------|
| Agra       | Bhopal   | Hospet    | Kanpur     | Muzaffarnagar | Rajahmundry | Siliguri    | Varanasi      |
| Ahmednagar | Calicut  | Hubli     | Karimnagar | Nanded        | Ranchi      | Solapur     | Vijaywada     |
| Ambala     | Coa      | Idukki    | Karnal     | Nashik        | Rourkela    | Srinagar    | Vishakapatnam |
| Anantapur  | Gulbarga | Jabalpur  | Kota       | Panipat       | Rudarpur    | Trivendrum  | Vellore       |
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| Bhiwadi    | Hisar    | Kashipur  | Mahua      | Rajkot        | Silchar     | Vapi        | Yamunanagar   |