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PRICE LIST

Effective : 22nd May 2024



Industrial Core Products



BHARTIA

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 14001:2015 and ISO 9001:2015 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.

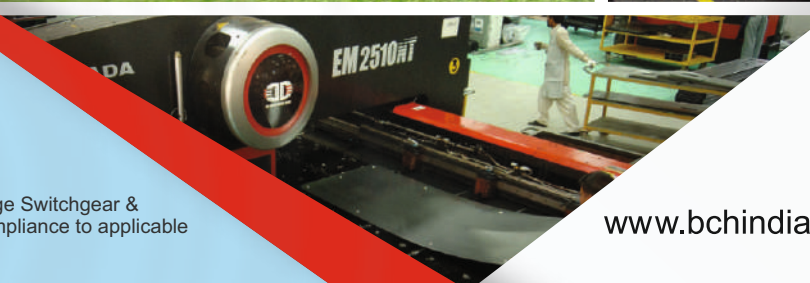
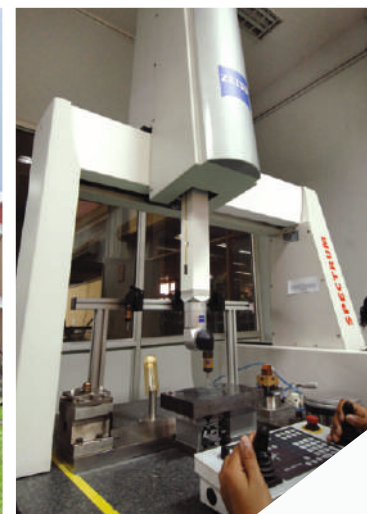
Environmental Policy

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.

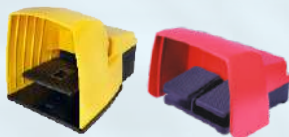
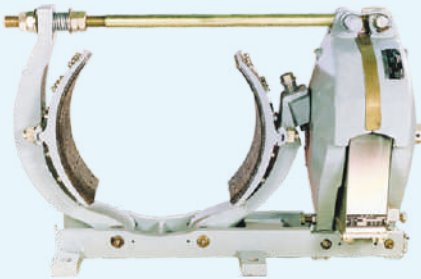


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Industrial Core Products

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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


| Panel Mounted Straight Socket - IP44 | | | | | | |
|---|-----|-------|------------------|------------------|-------------|-------------------|
|  | Amp | Poles | 230V~ 50-60Hz | 415V~ 50-60Hz | Lot size | MRP (₹) / Unit |
| | 16 | 3 | | BPX1PSS341 | | 10 |
| 4 | | | | BPX1PSS442 | 10 | 1070 |
| 5 | | | | BPX1PSS542 | 10 | 1085 |
| 32 | 3 | | BPX2PSS341 | | 10 | 1150 |
| | 4 | | | BPX2PSS442 | 10 | 1310 |
| | 5 | | | BPX2PSS542 | 10 | 1325 |
| 63 | 3 | | BPX3PSS341 | | 5 | 4585 |
| | 4 | | | BPX3PSS442 | 5 | 4685 |
| | 5 | | | BPX3PSS542 | 5 | 4715 |


| Panel Mounted Straight Socket - IP67 | | | | | | |
|--|-----|-------|------------------|------------------|-------------|-------------------|
|  | Amp | Poles | 230V~ 50-60Hz | 415V~ 50-60Hz | Lot size | MRP (₹) / Unit |
| | 16 | 3 | | BPX1PSS371 | | 10 |
| 4 | | | | BPX1PSS472 | 10 | 1505 |
| 5 | | | | BPX1PSS572 | 10 | 1515 |
| 32 | 3 | | BPX2PSS371 | | 10 | 1735 |
| | 4 | | | BPX2PSS472 | 10 | 1980 |
| | 5 | | | BPX2PSS572 | 10 | 2000 |
| 63 | 3 | | BPX3PSS371 | | 5 | 5130 |
| | 4 | | | BPX3PSS472 | 5 | 5150 |
| | 5 | | | BPX3PSS572 | 5 | 5175 |
| 125 | 3 | | BPX4PSS371 | | 2 | 17505 |
| | 4 | | | BPX4PSS472 | 2 | 17595 |
| | 5 | | | BPX4PSS572 | 2 | 17695 |


| Panel Mounted Angled Socket - IP44 | | | | | | |
|--|-----|-------|------------------|------------------|-------------|-------------------|
|  | Amp | Poles | 230V~ 50-60Hz | 415V~ 50-60Hz | Lot size | MRP (₹) / Unit |
| | 16 | 3 | | BPX1PAS341 | | 10 |
| 4 | | | | BPX1PAS442 | 10 | 1080 |
| 5 | | | | BPX1PAS542 | 10 | 1095 |
| 32 | 3 | | BPX2PAS341 | | 10 | 1150 |
| | 4 | | | BPX2PAS442 | 10 | 1330 |
| | 5 | | | BPX2PAS542 | 10 | 1345 |
| 63 | 3 | | BPX3PAS341 | | 5 | 4585 |
| | 4 | | | BPX3PAS442 | 5 | 4715 |
| | 5 | | | BPX3PAS542 | 5 | 4740 |

| Panel Mounted Angled Socket - IP67 | | | | | | |
|---|-----|-------|------------------|------------------|-------------|-------------------|
|  | Amp | Poles | 230V~ 50-60Hz | 415V~ 50-60Hz | Lot size | MRP (₹) / Unit |
| | 16 | 3 | | BPX1PAS371 | | 10 |
| 4 | | | | BPX1PAS472 | 10 | 1505 |
| 5 | | | | BPX1PAS572 | 10 | 1520 |
| 32 | 3 | | BPX2PAS371 | | 10 | 1735 |
| | 4 | | | BPX2PAS472 | 10 | 1980 |
| | 5 | | | BPX2PAS572 | 10 | 1995 |
| 63 | 3 | | BPX3PAS371 | | 5 | 5130 |
| | 4 | | | BPX3PAS472 | 5 | 5150 |
| | 5 | | | BPX3PAS572 | 5 | 5175 |
| 125 | 3 | | BPX4PAS371 | | 2 | 17505 |
| | 4 | | | BPX4PAS472 | 2 | 17595 |
| | 5 | | | BPX4PAS572 | 2 | 17695 |

| Surface Mounted Socket - IP44 | | | | | | |
|---|-----|-------|------------------|------------------|-------------|-------------------|
|  | Amp | Poles | 230V~ 50-60Hz | 415V~ 50-60Hz | Lot size | MRP (₹) / Unit |
| | 16 | 3 | | BPX1WS341 | | 10 |
| 4 | | | | BPX1WS442 | 10 | 1180 |
| 5 | | | | BPX1WS542 | 10 | 1195 |
| 32 | 3 | | BPX2WS341 | | 10 | 1330 |
| | 4 | | | BPX2WS442 | 10 | 1450 |
| | 5 | | | BPX2WS542 | 10 | 1470 |
| 63 | 3 | | BPX3WS341 | | 3 | 5240 |
| | 4 | | | BPX3WS442 | 3 | 5250 |
| | 5 | | | BPX3WS542 | 3 | 5275 |

| Surface Mounted Socket - IP67 | | | | | | |
|--|-----|-------|------------------|------------------|-------------|-------------------|
|  | Amp | Poles | 230V~ 50-60Hz | 415V~ 50-60Hz | Lot size | MRP (₹) / Unit |
| | 16 | 3 | | BPX1WS371 | | 10 |
| 4 | | | | BPX1WS472 | 10 | 2290 |
| 5 | | | | BPX1WS572 | 10 | 2305 |
| 32 | 3 | | BPX2WS371 | | 10 | 2240 |
| | 4 | | | BPX2WS472 | 10 | 2765 |
| | 5 | | | BPX2WS572 | 10 | 2790 |
| 63 | 3 | | BPX3WS371 | | 3 | 6590 |
| | 4 | | | BPX3WS472 | 3 | 6615 |
| | 5 | | | BPX3WS572 | 3 | 6665 |
| 125 | 3 | | BPX4WS371 | | 1 | 21525 |
| | 4 | | | BPX4WS472 | 1 | 23615 |
| | 5 | | | BPX4WS572 | 1 | 23715 |

| Standard Connector - IP44 | | | | | | |
|---|-----|-------|------------------|------------------|-------------|-------------------|
|  | Amp | Poles | 230V~ 50-60Hz | 415V~ 50-60Hz | Lot size | MRP (₹) / Unit |
| | 16 | 3 | | BPX1SC341 | | 10 |
| 4 | | | | BPX1SC442 | 10 | 975 |
| 5 | | | | BPX1SC542 | 10 | 985 |
| 32 | 3 | | BPX2SC341 | | 10 | 1070 |
| | 4 | | | BPX2SC442 | 10 | 1340 |
| | 5 | | | BPX2SC542 | 10 | 1350 |
| 63 | 3 | | BPX3SC341 | | 5 | 5620 |
| | 4 | | | BPX3SC442 | 5 | 5635 |
| | 5 | | | BPX3SC542 | 5 | 5660 |


| Standard Connector - IP67 | | | | | | |
|--|-----|-------|------------------|------------------|-------------|-------------------|
|  | Amp | Poles | 230V~ 50-60Hz | 415V~ 50-60Hz | Lot size | MRP (₹) / Unit |
| | 16 | 3 | | BPX1SC371 | | 10 |
| 4 | | | | BPX1SC472 | 10 | 2080 |
| 5 | | | | BPX1SC572 | 10 | 2100 |
| 32 | 3 | | BPX2SC371 | | 10 | 2410 |
| | 4 | | | BPX2SC472 | 10 | 2705 |
| | 5 | | | BPX2SC572 | 10 | 2720 |
| 63 | 3 | | BPX3SC371 | | 5 | 5715 |
| | 4 | | | BPX3SC472 | 5 | 5735 |
| | 5 | | | BPX3SC572 | 5 | 5760 |
| 125 | 3 | | BPX4SC371 | | 1 | 18365 |
| | 4 | | | BPX4SC472 | 1 | 18725 |
| | 5 | | | BPX4SC572 | 1 | 18825 |


Polycarbonate Plug & Socket BPX Series=





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


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


| Standard Plug - IP44 | | | | | | |
|---|-----|-------|------------------|------------------|----------|-------------------|
|  | Amp | Poles | 230V~ 50-60Hz | 415V~ 50-60Hz | Lot size | MRP (₹) / Unit |
| | 16 | 3 | | BPX1SP341 | | 10 |
| 4 | | | | BPX1SP442 | 10 | 765 |
| 5 | | | | BPX1SP542 | 10 | 775 |
| 32 | 3 | | BPX2SP341 | | 10 | 925 |
| | 4 | | | BPX2SP442 | 10 | 1120 |
| | 5 | | | BPX2SP542 | 10 | 1130 |
| 63 | 3 | | BPX3SP341 | | 5 | 4370 |
| | 4 | | | BPX3SP442 | 5 | 4400 |
| | 5 | | | BPX3SP542 | 5 | 4425 |


| Standard Plug - IP67 | | | | | | |
|--|-----|-------|------------------|------------------|----------|-------------------|
|  | Amp | Poles | 230V~ 50-60Hz | 415V~ 50-60Hz | Lot size | MRP (₹) / Unit |
| | 16 | 3 | | BPX1SP371 | | 10 |
| 4 | | | | BPX1SP472 | 10 | 1635 |
| 5 | | | | BPX1SP572 | 10 | 1650 |
| 32 | 3 | | BPX2SP371 | | 10 | 1865 |
| | 4 | | | BPX2SP472 | 10 | 1980 |
| | 5 | | | BPX2SP572 | 10 | 2005 |
| 63 | 3 | | BPX3SP371 | | 5 | 5020 |
| | 4 | | | BPX3SP472 | 5 | 5050 |
| | 5 | | | BPX3SP572 | 5 | 5075 |
| 125A | 3 | | BPX4SP371 | | 1 | 15795 |
| | 4 | | | BPX4SP472 | 1 | 15825 |
| | 5 | | | BPX4SP572 | 1 | 15925 |


| Phase Inverter Plug - IP44 | | | | | |
|--|-----|-------|------------------|------------|-------------------|
|  | Amp | Poles | 415V~ 50-60Hz | Lot size | MRP (₹) / Unit |
| | 16 | 5 | | BPX1PIP542 | 10 |
| 32 | | 5 | BPX2PIP542 | 10 | 1810 |

| Phase Inverter Plug - IP67 | | | | | |
|---|-----|-------|------------------|------------|-------------------|
|  | Amp | Poles | 415V~ 50-60Hz | Lot size | MRP (₹) / Unit |
| | 16 | 5 | | BPX1PIP572 | 10 |
| 32 | | 5 | BPX2PIP572 | 10 | 3030 |

| Panel Mounted Plug - IP44 | | | | | | |
|---|-----|-------|------------------|------------------|----------|-------------------|
|  | Amp | Poles | 230V~ 50-60Hz | 415V~ 50-60Hz | Lot size | MRP (₹) / Unit |
| | 16 | 3 | | BPX1PP341 | | 10 |
| 4 | | | | BPX1PP442 | 10 | 1185 |
| 5 | | | | BPX1PP542 | 10 | 1215 |
| 32 | 3 | | BPX2PP341 | | 10 | 1255 |
| | 4 | | | BPX2PP442 | 10 | 1465 |
| | 5 | | | BPX2PP542 | 10 | 1500 |
| 63 | 3 | | BPX3PP341 | | 5 | 4575 |
| | 4 | | | BPX3PP442 | 5 | 4605 |
| | 5 | | | BPX3PP542 | 5 | 4680 |

| Panel Mounted Plug - IP67 | | | | | | |
|--|-----|-------|------------------|------------------|----------|-------------------|
|  | Amp | Poles | 230V~ 50-60Hz | 415V~ 50-60Hz | Lot size | MRP (₹) / Unit |
| | 16 | 3 | | BPX1PP371 | | 10 |
| 4 | | | | BPX1PP472 | 10 | 2435 |
| 5 | | | | BPX1PP572 | 10 | 2480 |
| 32 | 3 | | BPX2PP371 | | 10 | 2375 |
| | 4 | | | BPX2PP472 | 10 | 2545 |
| | 5 | | | BPX2PP572 | 10 | 2595 |
| 63 | 3 | | BPX3PP371 | | 5 | 5080 |
| | 4 | | | BPX3PP472 | 5 | 5110 |
| | 5 | | | BPX3PP572 | 5 | 5130 |
| 125A | 3 | | BPX4PP371 | | 2 | 17095 |
| | 4 | | | BPX4PP472 | 2 | 18250 |
| | 5 | | | BPX4PP572 | 2 | 18505 |

| Surface Mounted Plug - IP44 | | | | | | |
|---|-----|-------|------------------|------------------|----------|-------------------|
|  | Amp | Poles | 230V~ 50-60Hz | 415V~ 50-60Hz | Lot size | MRP (₹) / Unit |
| | 16 | 3 | | BPX1WP341 | | 10 |
| 4 | | | | BPX1WP442 | 8 | 2160 |
| 5 | | | | BPX1WP542 | 10 | 2190 |
| 32 | 3 | | BPX2WP341 | | 10 | 2665 |
| | 4 | | | BPX2WP442 | 10 | 3095 |
| | 5 | | | BPX2WP542 | 10 | 3150 |
| 63 | 3 | | BPX3WP341 | | 2 | 6135 |
| | 4 | | | BPX3WP442 | 2 | 6185 |
| | 5 | | | BPX3WP542 | 2 | 6275 |

| Surface Mounted Plug - IP67 | | | | | | |
|--|-----|-------|------------------|------------------|----------|-------------------|
|  | Amp | Poles | 230V~ 50-60Hz | 415V~ 50-60Hz | Lot size | MRP (₹) / Unit |
| | 16 | 3 | | BPX1WP371 | | 10 |
| 4 | | | | BPX1WP472 | 8 | 2920 |
| 5 | | | | BPX1WP572 | 10 | 2970 |
| 32 | 3 | | BPX2WP371 | | 10 | 5085 |
| | 4 | | | BPX2WP472 | 10 | 5225 |
| | 5 | | | BPX2WP572 | 10 | 5305 |
| 63 | 3 | | BPX3WP371 | | 2 | 6890 |
| | 4 | | | BPX3WP472 | 2 | 6920 |
| | 5 | | | BPX3WP572 | 2 | 7020 |

Polycarbonate Plug & Socket BPX Series=




BPX Range of Socket Outlet with Switch and Mechanical Interlock


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

Socket Outlet with Switch and Mechanical Interlock

Horizontal Type - IP44

|  | Amp | Poles | 230V~ 50-60Hz | 415V~ 50-60Hz | Lot size | MRP (₹) / Unit |
|---|-----|-------|------------------|------------------|----------|-------------------|
| | 16 | 3 | | BPX1MIH341 | | 4 |
| 4 | | | | BPX1MIH442 | 4 | 10860 |
| 5 | | | | BPX1MIH542 | 4 | 10910 |


Horizontal Type - IP67

|  | Amp | Poles | 230V~ 50-60Hz | 415V~ 50-60Hz | Lot size | MRP (₹) / Unit |
|--|-----|-------|------------------|------------------|----------|-------------------|
| | 16 | 3 | | BPX1MIH371 | | 4 |
| 4 | | | | BPX1MIH472 | 4 | 11060 |
| 5 | | | | BPX1MIH572 | 4 | 11100 |

Vertical Type - IP44


|  | Amp | Poles | 230V~ 50-60Hz | 415V~ 50-60Hz | Lot size | MRP (₹) / Unit |
|--|-----|-------|------------------|------------------|----------|-------------------|
| | 16 | 3 | | BPX1MIV341 | | 1 |
| 4 | | | | BPX1MIV442 | 1 | 13245 |
| 5 | | | | BPX1MIV542 | 1 | 13295 |
| 32 | 3 | | BPX2MIV341 | | 1 | 12355 |
| | 4 | | | BPX2MIV442 | 1 | 15030 |
| | 5 | | | BPX2MIV542 | 1 | 15080 |
| 63 | 3 | | BPX3MIV341 | | 1 | 26915 |
| | 4 | | | BPX3MIV442 | 1 | 28150 |
| | 5 | | | BPX3MIV542 | 1 | 28200 |
| - | | | | | | |

Vertical Type - IP67

|  16A - 63A | Amp | Poles | 230V~ 50-60Hz | 415V~ 50-60Hz | Lot size | MRP (₹) / Unit |
|---|-----|-------|------------------|------------------|----------|-------------------|
| | 16 | 3 | | BPX1MIV371 | | 1 |
| 4 | | | | BPX1MIV472 | 1 | 13445 |
| 5 | | | | BPX1MIV572 | 1 | 13495 |
| 32 | 3 | | BPX2MIV371 | | 1 | 12555 |
| | 4 | | | BPX2MIV472 | 1 | 15230 |
| | 5 | | | BPX2MIV572 | 1 | 15280 |
| 63 | 3 | | BPX3MIV371 | | 1 | 27165 |
| | 4 | | | BPX3MIV472 | 1 | 28400 |
| | 5 | | | BPX3MIV572 | 1 | 28450 |
| 125A | 3 | | BPX4MIV371 | | 1 | 89640 |
| | 4 | | | BPX4MIV472 | 1 | 97700 |
| | 5 | | | BPX4MIV572 | 1 | 97750 |

Socket Outlet with Duo Interlock and DIN Rail

Vertical Type - IP44

|  | Amp | Poles | 230V~ 50-60Hz | 415V~ 50-60Hz | Lot size | MRP (₹) / Unit |
|---|-----|-------|------------------|------------------|----------|-------------------|
| | 16 | 3 | | BPX1MID341 | | 1 |
| 4 | | | | BPX1MID442 | 1 | 15285 |
| 5 | | | | BPX1MID542 | 1 | 15795 |
| 32 | 3 | | BPX2MID341 | | 1 | 12230 |
| | 4 | | | BPX2MID442 | 1 | 17590 |
| | 5 | | | BPX2MID542 | 1 | 17600 |
| 63 | 3 | | BPX3MID341 | | 1 | 24920 |
| | 4 | | | BPX3MID442 | 1 | 27240 |
| | 5 | | | BPX3MID542 | 1 | 28890 |
| - | | | | | | |

Vertical Type - IP67

|  16A - 63A | Amp | Poles | 230V~ 50-60Hz | 415V~ 50-60Hz | Lot size | MRP (₹) / Unit |
|---|-----|-------|------------------|------------------|----------|-------------------|
| | 16 | 3 | | BPX1MID371 | | 1 |
| 4 | | | | BPX1MID472 | 1 | 15585 |
| 5 | | | | BPX1MID572 | 1 | 16095 |
| 32 | 3 | | BPX2MID371 | | 1 | 12450 |
| | 4 | | | BPX2MID472 | 1 | 17800 |
| | 5 | | | BPX2MID572 | 1 | 17850 |
| 63 | 3 | | BPX3MID371 | | 1 | 25190 |
| | 4 | | | BPX3MID472 | 1 | 27540 |
| | 5 | | | BPX3MID572 | 1 | 29150 |
| 125A | 3 | | BPX4MID371 | | 1 | 92915 |
| | 4 | | | BPX4MID472 | 1 | 100265 |
| | 5 | | | BPX4MID572 | 1 | 100305 |





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

HSN Code : 8536

| Rating | Pins | Type | Cat No. | MRP [₹] |
|-----------|--------|--------|---------|---------|
| 20A, 250V | 2P + E | Plug | MP20 | 305 |
| | | Socket | Ms20 | 340 |
| 30A, 440V | 3P + E | Plug | MP30 | 705 |
| | | Socket | Ms30 | 745 |



Plastic Plugs & Socket Type 'PS'

HSN Code : 8536

| Rating | Pins | Type | Cat No. | MRP [₹] |
|-----------|------|-------------------------------|---------|---------|
| 20A, 250V | 3 | Plug | PS16AA7 | 335 |
| | | Flush Mounting Socket | PS16BA7 | 475 |
| | | Socket with Wall Mounting Box | PS16DA7 | 590 |
| 20A, 415V | 4 | Plug | PS16AA1 | 410 |
| | | Flush Mounting Socket | PS16BA1 | 620 |
| | | Socket with Wall Mounting Box | PS16DA1 | 725 |
| 32A, 415V | 3 | Plug | PS32AA7 | 695 |
| | | Socket | PS32BA7 | 695 |
| | 4 | Plug | PS32AA1 | 730 |
| | | Socket | PS32BA1 | 730 |
| | 5 | Plug | PS32AA5 | 775 |
| | | Socket | PS32BA5 | 775 |

- 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 | 2405 |
| | | Plug with inclined Handle | 299/12B | 1805 |

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 | 1000 |
| | | Plug with inclined Handle | 215B | 980 |
| 30A, 415V | 4 | Panel Mounting Socket | 2413B | 1045 |
| | | Plug with inclined Handle | 213B | 1020 |
| 30A, 415V | 5 | Panel Mounting Socket | 2417B | 1090 |
| | | Plug with inclined Handle | 217B | 1065 |

Note : *Loose Conduit Box Straight (Cat. No. 9J101) MRP - Rs. 380/- each
*Spare Handle Inclined (Cat. No. 9J108) MRP -Rs. 190/- each.

HSN Code : 8538

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

HSN Code : 8536

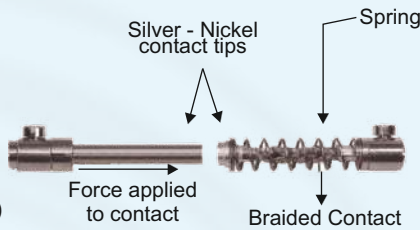
| Rating | Pins | Type | Cat No. | MRP[₹] |
|------------|------|-----------------|---------|--------|
| 16A, 415V | 5 | Plug | DS1A7A1 | 1620 |
| | | Socket | DS1B7A1 | 2010 |
| | | Handle Assembly | SP91PH | 315 |
| 32A, 415V | 5 | Plug | DS3A7A1 | 2650 |
| | | Socket | DS3B7A1 | 3220 |
| | | Handle Assembly | SP93PH | 330 |
| 63A, 415V | 5 | Plug | DS6A7A1 | 4125 |
| | | Socket | DS6B7A1 | 5690 |
| | | Handle Assembly | SP96PH | 460 |
| 125A, 415V | 5 | Plug | DS9A7A1 | 12165 |
| | | Socket | DS9B7A1 | 16995 |
| | | Handle Assembly | SP99PH | 1130 |

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

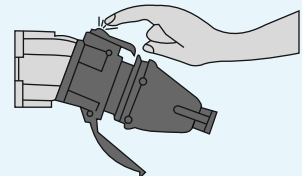


- Range from 16A to 125 A
- 5 Pin configuration (3P+N+E)
- Plug cannot come out in ON condition (Integral Interlocking)

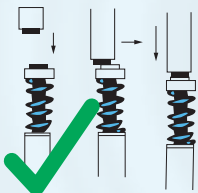
- Spring loaded Butt type contacts
- Self aligning and self wiping



Quick Disconnect



Sparkless Butt type contact



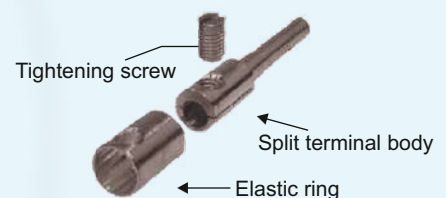
- Self aligning self wiping
- Spring loaded for consistent pressure
- Silver nickle material for extremely low temperature rise

Safety Disk



No access to live parts

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 | 1365 |
| 20A, 250V | 2P + E | Universal | Plug & Socket Box - DP-MCB Cutout | MPSEU202 | 1365 |
| 30A, 440V | 3P + E | Universal | Plug & Socket Box - TPN-MCB Cutout | MPSEU301 | 3425 |



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 | 1640 |
| | | | Plug & Socket Box with DP-MCB Cutout | PSEU202 | 1685 |
| | | Flush | Plug & Socket Box with SP MCB Cutout | PSEF201 | 1640 |
| | | | Plug & Socket Box with DP-MCB Cutout | PSEF202 | 1685 |
| 32A, 415V | 4 | Universal | Plug & Socket Box with 4P MCB Cutout | PSEU324 | 3555 |
| | | | 5 | PSEU325 | 3625 |
| | 4 | Flush | Plug & Socket Box with 4P MCB Cutout | PSEF324 | 3555 |
| | | | 5 | PSEF325 | 3625 |

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 | 4015 |
| | 3 | Universal | Plug & Socket Box with DP MCB Cutout | SSEU303 | 4015 |
| | 4 | Universal | Plug & Socket Box with 4P MCB Cutout | SSEU304 | 4120 |
| | | | | SSEU305 | 4210 |

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

HSN Code : 8536



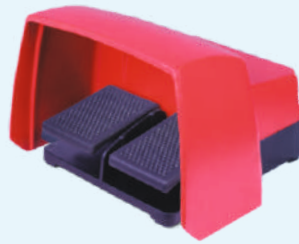
| Rating | Pins | Mounting | Type | Cat No. | MRP [₹] |
|------------------------|------|-----------|---|-------------------|---------|
| 20A, 250V 32A, 415V | 3 | Universal | P&S Box with 'PS' P&S and SP MCB Cutout | PSEU201-SSC | 2055 |
| | 5 | | P&S Box with 'PS' P&S and 4P MCB Cutout | PSEU325-SSC | 4150 |
| 30A, 415V | 3 | Universal | Plug & Socket Box with SP MCB Cutout | SSEU303-SSC-MCB1P | 4610 |
| | | | Plug & Socket Box with DP MCB Cutout | SSEU303-SSC | 4610 |
| | 4 | Universal | Plug & Socket Box with 4P MCB Cutout | SSEU304-SSC | 4720 |
| | 5 | Universal | Plug & Socket Box with 3P MCB Cutout | SSEU305-SSC-MCB3P | 4920 |
| | | | Plug & Socket Box with 4P MCB Cutout | SSEU305-SSC | 4810 |

BSG Foot Switch



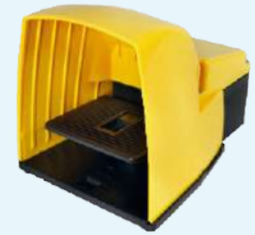
BSG2M

- 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 | 5390 |
| BSG2MX2 | FOOT SWITCH METAL GUARD & SHIELD 2NO+2NC | 5780 |
| BSG2CY1 | FOOT SWITCH DOUBLE PEDAL 2 X 1NO+1NC | 8290 |
| BSG2PX1 | FOOT SWITCH PLASTIC GUARD&SHIELD 1NO+1NC | 2590 |
| BSG2PX2 | FOOT SWITCH PLASTIC GUARD&SHIELD 2NO+2NC | 2980 |

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 | 5215 | 1 |
| One | 1NO+1NC | 2 | With Latch | FSGX1L | 5490 | |
| One | 2NO+2NC | 2 | With Guard | FSGX2 | 5655 | |
| One | 2NO+2NC | 2 | With Latch | FSGX2L | 5905 | |
| Two | 2NO+2NC | 2 | With Guard | FSGY1 | 6390 | |
| Two | 2NO+2NC | 2 | With Latch | FSGY1L | 6800 | |
| Two | 4NO+4NC | 2 | With Guard | FSGY2 | 7455 | |
| Two | 4NO+4NC | 2 | With Latch | FSGY2L | 7595 | |
| Two | 2NO+2NC | 3 | With Guard | FSGZ1M | 6490 | |
| Two | 4NO+4NC | 3 | With Guard | FSGZ2M | 7435 | |

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 | 920 |
| Spare Contact Block 2NO+2NC | FSG & BSG | SP20S2 | 1155 |
| Spare Cover with Guard | FSG | SP20CG | 2095 |

- 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 [₹] |
|--|-------------------|-------------------------------|-------------------------------------|------------------------------------|
| 50 Amperes | | | | |
| Single pole Normally Open | 15A 25A 50A | 2NO+2NC 2NO+2NC 2NO+2NC | 912x1522 912x2522 912x5022 | On request On request 43105 |
| Double pole Normally Open | 15A 25A 50A | 2NO+2NC 2NO+2NC 2NO+2NC | D912x1522 D912x2522 D912x5022 | On request On request 92645 |
| Mechanically Interlocked 2 Nos. SP NO | 15A 25A 50A | 2NO+2NC 2NO+2NC 2NO+2NC | M912x1522 M912x2522 M912x5022 | On request On request 102745 |
| 150 Amperes | | | | |
| Single pole Normally Open | 150A | 2NO+2NC | 914x22 | 73590 |
| Double pole Normally Open | 150A | 2NO+2NC | D914x22 | 157770 |
| Mechanically Interlocked 2 Nos. SP NO | 150A | 2NO+2NC | M914x22 | 166495 |
| Single pole Normally Closed | 150A | 1NO+1NC | 924x11 | 75805 |
| Double Pole Normally Closed | 150A | 2NO+2NC | D924x22 | 160810 |
| Single pole Normally Open with Holdout Coil # | 150A | 1NO+1NC | 934x11/# | 79780 |
| Single pole Normally Open with AC Blow out Coil | 150A | 2NO+2NC | 974x22 | 93295 |
| 300 Amperes | | | | |
| Single pole Normally Open | 300A | 2NO+2NC | 915x22 | 106865 |
| Double pole Normally Open | 300A | 2NO+2NC | D915x22 | 227565 |
| Mechanically Interlocked 2 Nos. SP NO | 300A | 2NO+2NC | M915x22 | 236590 |
| Single pole Normally Closed | 300A | 1NO+1NC | 925x11 | 107400 |
| Double Pole Normally Closed | 300A | 2NO+2NC | D925x22 | 231980 |
| Single pole Normally Open with Holdout Coil # | 300A | 1NO+1NC | 935x11/# | 115955 |
| Single pole Normally Open with AC Blow out Coil | 300A | 2NO+2NC | 975x22 | 135115 |



- 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 [₹] |
|--|------|---------------------|----------|---------|
| 600 Amperes | | | | |
| Single pole Normally Open | 600A | 2NO+2NC | 916x22 | 238135 |
| Double pole Normally Open | 600A | 2NO+2NC | D916x22 | 494460 |
| Mechanically Interlocked 2 Nos. SP NO | 600A | 2NO+2NC | M916x22 | 502470 |
| Single pole Normally Closed | 600A | 1NO+1NC | 926x11 | 244780 |
| Single pole Normally Open with Holdout Coil# | 600A | 1NO+1NC | 936x11/# | 302535 |
| Single pole Normally Open with AC Blow out Coil | 600A | 2NO+2NC | 976x22 | 311380 |

For 934 / 935 / 936 with holdout coil use hold out suffix code from table on page no.44

* For coil voltage refer table on page no.11

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

* Add Rs. 4885/- for AC Control

Double Pole DC Mill Duty Contactor HSN Code : 8536

| A | Auxilliary Contacts | Cat. No. | Unit Price [₹] |
|------|---------------------|----------|----------------|
| 150A | 2NO+2NC | 954x22 | 225195 |
| 300A | 2NO+2NC | 955x22 | 262745 |

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 a. LH Arc Shield b. RH Arc Shield c. DC Blow Out Arc Horn d. DC Blow Out Arc Piece e. DC Blow Out Spacer Assy. f. Polarity Wire g. Latch Strips (Top & Bottom) h. Hardware for Polarity Wire & Latch | 1 Set | 9C9J101* | 20885 | 9C9P101 | 35760 | 9C9T101 | 51840 | 9C9V101 | 112825 |
| AC Arc Chute Assy. Consisting of a. LH Arc Shield b. RH Arc Shield c. AC Blow Out Pole Piece d. AC Blow Out Spacer Assy. e. Polarity Wire f. Latch Strips (Top & Bottom) g. Hardware for Polarity Wire & Latch | 1Set | - | - | 9C9P102 | On request | 9C9T102 | On request | 9C9V102 | On request |
| Fixed & Moving Contacts | 1 Set | 9C9J105 | 4745 | 9C9P105 | 6530 | 9C9T105 | 10590 | 9C9V105 | 28785 |
| Contact Lever with Braid (for Single Pole) | 1 No. | 9C9J106 | 5770 | 9C9P106 | 9405 | 9C9T106 | 12450 | 9C9V106 | 21590 |
| Contact Lever with Braid (for Double Pole) [†] | 1 No. | 9C9J106 | 5770 | 9C9P106 | 9405 | 9C9T106 | 12450 | 9C9V103 | 21590 |
| Set of Armature Spares Consisting of a. Adjusting Pin b. Contact lever spring c. Contact lever spring pin with circlip d. Armature hinge pin e. Armature Securing pin | 1 Set | 9C9J107 | 1970 | 9C9P107 | 2730 | 9C9T107 | 3935 | 9C9V107 | 5710 |
| Set of Armature Spares for 924, 925, 926 Consisting of a. Adjusting Pin b. Contact lever spring c. Contact lever spring pin with circlip d. Armature hinge pin e. Armature Securing pin f. Armature spring g. Spring retaining washer | 1 Set | - | - | 9C9P108 | 3330 | 9C9T108 | 5865 | 9C9V108 | 7075 |
| Set of Armature Spares for 934/935/936 Consisting of a. Adjusting pin b. Contact lever spring c. Contact lever hinge pin d. Armature hinge pin e. Armature securing pin f. Armature spring g. Spring retaining washer h. Adjusting screw | 1 Set | - | - | 9C9P109 | 3975 | 9C9T109 | 5865 | 9C9V109 | 7510 |
| Terminal Block | 1 | 9C9J110 | 2660 | 9C9P110 | 3480 | 9C9T110 | 4865 | 9C9V110 | 6075 |
| No Volt Coil for 912, 914, 915, 916, 934, 935 & 936 **Suffix voltage code | 1 | 9C9J111■ | 10655 | 9C9P111■ | 16295 | 9C9T111■ | 21440 | 9C9V111■ | 36930 |
| No Volt Coil for 924, 925, 926 **Suffix voltage code | 1 | - | - | 9C9P112■ | 21440 | 9C9T112■ | 33295 | 9C9V112■ | 53780 |
| Coil clamp for 914 & 934 | 1 | - | - | 9C9P118 | 375 | - | - | - | - |
| Coil clamp for 924, 915, 935, 916 & 936 | 1 | - | - | 9C9P118 | 375 | 9C9T118 | 375 | 9C9V118 | On request |

- Suffix coil voltage code from table on page 44
- Please add Rs. 4885 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 | 8320 |
| 2NO Auxilliary Contact Block | AC10E20 | 8320 |
| 2NC Auxilliary Contact Block | AC10E02 | 8320 |
| Single unit driver with mounting plate (50A) | 9C9J115 | On request |
| Double unit driver with mounting plate (50A) | 9C9J116 | On request |
| Single unit driver with mounting plate (150-600A) | 9C9P116 | On request |
| Double unit driver with mounting plate (150-600A) | 9C9P117 | On request |
| Hold out coil for 934, 935 & 936 | 9C9P113-# | 25870 |
| Condenser 50 + 50uF for 934, 935 & 936 | 9C9P114 | 1430 |
| Mechanical interlock for 150/300/600A | AC10M4/M8/M12 | 9270 |
| Rectifier 110/240 V | SP30R | 4895 |

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 | 24140 |
| 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 | 28285 |
| B3K23 | 179-39 | 69.0 | 40 to 120 | |
| B3L23 | 179-38 | 109.0 | 70 to 190 | |
| B3M23 | 179-37 | 179.0 | 100 to 300 | 30840 |
| B3N23 | 179-36 | 299.0 | 200 to 600 | |
| B3Y23 | 179-36.2 | 199.0 | 200 to 600 | 37515 |
| B3P23 | | 549.0 | 300 to 900 | |
| 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 |

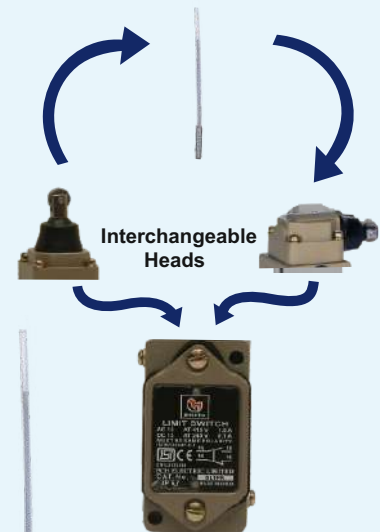
1. For other coil voltages, please contact nearest sales office
2. AC control is not available for 934, 935, 936 versions.
3. For ordering spare coils for D912, D914, D915 and D916 Contactors, please order coils with 50% voltage rating as that of control voltage. Example to order coils for D914 X 22B1 (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 Standard-76.2mm Adjustable | NLL1 NLL2 NLLA | 2305 | NLL1C NLL2C NLLAC | 2515 | NLL1-22 NLL2-22 NLLA-22 | 3520 | NLL1-22C NLL2-22C NLLA-22C | 3645 |
| | Maintained Type Maintained Type Maintained Type | NLL1M NLL2M NLLAM | 2590 | NLL1MC NLL2MC NLLAMC | 2720 | NLL1M-22 NLL2M-22 NLLAM-22 | 3895 | NLL1M-22C NLL2M-22C NLLAM-22C | 3965 |
| Push Roller | Top Side | NLTPR | 2305 | NLTPRC | 2515 | NLTPR-22 | 3520 | NLTPR-22C | 3645 |
| | | NLSPR | 2535 | NLSPRC | 2720 | NLSPR-22 | 3800 | NLSPR-22C | 3965 |
| Push Button | Top Adjustable Side Adjustable | NLTPBA | 2305 | NLTPBAC | 2515 | NLTPBA-22 | 3425 | NLTPBA-22C | 3645 |
| | | NLSPBA | 2535 | NLSPBAC | 2720 | NLSPBA-22 | 3800 | NLSPBA-22C | 3965 |
| Cat Whisker | Nylon Rod Steel Rod | NLCW | 2025 | NLCWC | 2180 | NLCW-22 | 3350 | NLCW-22C | 3520 |
| | | NLJW | 2305 | NLJWC | 2465 | NLJW-22 | 3520 | NLJW-22C | 3645 |

- 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 NEW

HSN Code : 8536

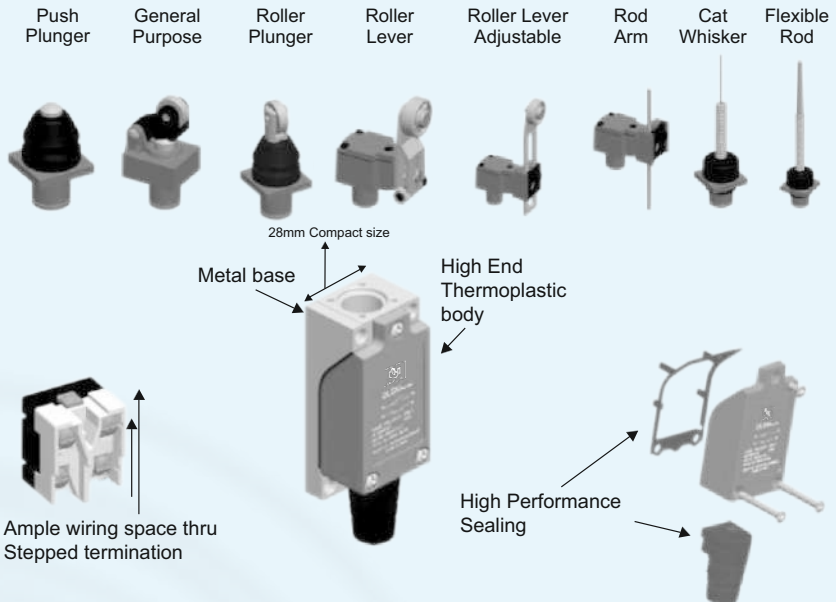
| Type | | Cat. No. | MRP [₹] |
|----------------------|--------------|----------|---------|
| General Purpose Type | | DLSMAR | 1520 |
| Top Plunger | Standard | DLSMPP | 1520 |
| Push Roller | Standard | DLSMRP | 1520 |
| Push Roller | Cross | DLSMRPX | 1520 |
| Roller Lever | 39mm | DLSMRL | 1520 |
| Roller Lever | Adjustable | DLSMRLA | 1570 |
| Rod Arm | Adjustable | DLSMJWA | 1570 |
| Cat's Whisker | Steel Spring | DLSMSW | 1665 |
| Flexible Rod | Nylon | DLSMSR | 1665 |

- 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 | 980 | PSRL-L-2 or R-2 | 1205 | 1 |
| Six Inch Lever | PSSIL-L or R | 980 | PSSIL-L-2 or R-2 | 1205 | |
| Top Push Roller | PSTPR* | 980 | PSTPR*-2 | 1205 | |
| Top Push Button | PSTPB | 980 | PSTPB-2 | 1205 | |
| Type | Cat. No | MRP [₹] | Cat. No | MRP [₹] | Lot Size |
| Spare Contact Block | SP20S1 | 920 | SP20S2 | 1155 | |

* 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 Roller Lever Top Push Roller | LL1-150S-M LTPR-150S-M | On Request |

*Refer to our nearest sales office for specification & details

Heavy Duty General Purpose Limit Switch

HSN Code : 8536

| | | | |
|-----------------------|-------------------------------|--------------|------|
| Snap Action Type L | Angular Roller Top Plunger | LLGS LPGS | 1545 |
|-----------------------|-------------------------------|--------------|------|

Oil Tight Limit Switch - Snap Action Type L IP 65

HSN Code : 8536

| Type | Description | Cat. No. | MRP [₹] |
|--------------|--|----------|---------|
| Roller Lever | Standard-38MM | LL1 | 3305 |
| | Standard-76.2mm | LL2 | |
| | Adjustable | LLA | |
| Push Roller | Maintained Type LL1 | LL1M | 3455 |
| | Maintained Type LL2 | LL2M | |
| | Maintained Type LLA | LLAM | |
| Push Button | Top Adjustable | LTPR | 3230 |
| | Side Adjustable | LSPR | 3635 |
| Cat Whisker | Top Adjustable | LTPBA | 3505 |
| | Side Adjustable | LSPBA | |
| Fork Type | Nylon Rod | LCW | 2650 |
| | Steel Rod | LJW | 3290 |
| Fork Type | Roller in same line | LLF | 2980 |
| | Offset Rollers | LLFO | 2980 |
| | Roller in same line | LLFM | 3480 |
| | Maintained Offset Rollers Maintained | LLFOM | 3480 |

Oil Tight Limit Switch - Spares

HSN Code : 8538

| Description | Suitable for | Cat. No. | MRP [₹] |
|---------------------------------------|---|-----------|---------|
| 38 mm lever | NLL1, LL1 | SP40L1 | 555 |
| 76.2 mm lever | NLL2, LL2 | SP40L2 | 700 |
| Adjustable lever | NLLA, LLA | SP40LA | 700 |
| Fork lever in Line | LLF | SP40LF | 850 |
| Fork lever Offset | LLFO | SP40LFO | 850 |
| Operating Head | LLGS, LPGS | SP40HLG | 1005 |
| Operating Head | Lever Type | SP40HL | 1090 |
| Operating Head Maintained | Lever Type | SP40HLM | 1255 |
| Operating Head | Top Push | SP 40HTP* | 1090 |
| | Side Push | SP 40HSP* | 1205 |
| Operating Head | Cat Whisker Nylon Rod | SP40CW | 745 |
| | Cat Whisker Steel Rod | SP40JW | 1005 |
| Limit Switch Unit Assembly 1NO+1NC | Type 'L' & 'NL' (Except LLGS / LPGS) | SP40S1 | 1545 |
| Limit Switch Unit Assembly 2NO+2NC | Type 'L' & 'NL' (Except LLGS / LPGS) | SP40S2 | 2555 |
| Limit Switch Unit Assembly 1NO+1NC | LLGS / LPGS | SP40S1WOM | 1005 |
| Oil tight Conduit | Type 'NL' | SP40CE | 595 |

* B = Button R = Roller



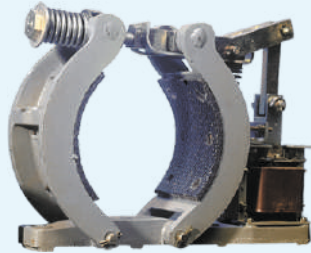
AC Solenoid - Pull Type

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■ | 5690 |
| D | S-51, S-71 S-52, S-72 | 31.4 | 6.75 | SLD■ SLD2■ | 8390 |
| E | S-250 | 40 | 10 | SPSLEM SPSLEB | 18255 |

* 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■ | 13400 | AC50D4 | 2230 |
| S-5 | 5.5 | 139.7 | 25 | 34.0 | Continuous Intermittent | S-51■ | 19165 | AC50D5 | 3080 |
| | | | 35 | 48.0 | | S-52■ | | | |
| S-7 | 7 | 177.8 | 50 | 68.0 | Continuous Intermittent | S-71■ | 21915 | AC50D7 | 3735 |
| | | | 75 | 102.0 | | S-72■ | | | |
| S-250 | 9.84 | 250 | 109 | 147.0 | Continuous | S-2501M | 47150 | AC50D25 | 7550 |

- 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

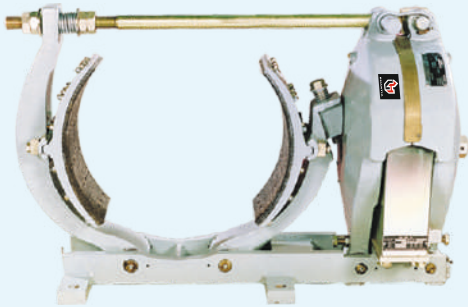
HSN Code : 8505

| 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 | 1600 | SP50L2 | 2370 | SP50L3 | 3170 | SP50L4 | 6205 |
| Brake shoe Assembly* | SP50SA1 | 4650 | SP50SA2 | 5995 | SP50SA3 | 9880 | SP50SA4 | 19900 |
| Brake Coil -Continuous -Intermittent | SP50MC01■ | 2745 | SP50MC21■ SP50MC22■ | 5455 | SP50MC21■ SP50MC22■ | 5455 | SP50MC31■ | 14405 |

* 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) ⁺ | | | |
|-------------------|---------|--------|----------------|--|----------------|----------------------------|----------------|
| 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 | 66185 | CACS1*MAE | 69280 | CACS2*MAE | 96230 |
| 160mm | SMH160 | | | | | | |
| 8"/200mm | SMH8 | 13.8 | 77910 | CACA1*MAE | 77230 | CACJ2*MAE | 100075 |
| | SMH200 | 13.8 | | | | | |
| 10"/250mm | SMH10 | 27.7 | 95640 | CACB1*MAE | 81945 | CACK2*MAE | 112650 |
| | SMH250 | 27.7 | | | | | |
| 13"/300mm | SMH13 | 76.0 | 156570 | CACC1*MAE | 88360 | CACL2*MAE | 131175 |
| | SMH300 | 76.0 | | | | | |
| 16"/400mm | SMH16 | 138.8 | 252020 | CACD1*MAE | 101740 | CACM2*MAE | 142545 |
| | SMH400 | 138.8 | | | | | |
| 19"/500mm | SMH19 | 277.0 | 406290 | CACE1*MAE | 123020 | CACN2*MAE | 180095 |
| | SMH500 | 277.0 | | | | | |
| 23"/600mm | SMH23 | 555.0 | 643015 | CACF1*MAE | 158615 | CACP2*MAE | 227850 |
| | SMH600 | 555.0 | | | | | |
| 30"/700mm | SMH30 | 1242.0 | 1431925 | CACG1*MAE | 626175 | - | - |
| | SMH700 | 1242.0 | | | | | |
| 800mm | SMH800 | 1242.0 | 1551415 | CACG1*MAE | 626175 | - | - |

* For control supply i.e. A=110 V, B=220 V, K =240V and M=415 V AC
 1. 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. 8620/- 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 | 8980 | CARS10KE | 8210 | CARS10ME | 16575 | CARS20ME | On request |
| SMH8 / SMH200 | 13.8 | CDCA101D CDIA101D* | 9330 | CARA10KE | 8490 | CARA10ME | 16575 | CARA20ME | On request |
| SMH10 / SMH250 | 27.7 | CDCB101D CDIB101D* | 11065 | CARB10KE | 9775 | CARB10ME | 16575 | CARB20ME | On request |
| SMH13 / SMH300 | 76.0 | CDCC101D CDIC101D* | 12765 | CARC10KE | 11590 | CARC10ME | 18970 | CARC20ME | 25920 |
| SMH16 / SMH400 | 138.8 | CDCD101D CDID101D* | 13665 | CARD10KE | 12460 | CARD10ME | 22050 | CARD20ME | 27230 |
| SMH19 / SMH500 | 277.0 | CDCE101D CDIE101D* | 14630 | CARE10KE | 13350 | CARE10ME | 24470 | CARE20ME | On request |
| SMH23 / SMH600 | 555.0 | CDCF101D CDIF101D* | 16660 | CARF10KE | 14995 | CARF10ME | 26300 | CARF20ME | On request |
| SMH30 / SMH700 | 1242.0 | CDCG101D CDIG101D* | 40340 | - | - | CARG10ME | 45380 | - | - |
| SMH800 | 1242.0 | CDIG101D* | 40340 | - | - | CARG10ME | 45380 | - | - |

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 SME200H1 | 8.97 | 21 | SME801 SME20001 | 160505 |
| | 403, 602, 802B | | 44 | SME8H2 SME200H2 | | 31 | SME802 SME20002 | On request |
| 10"/250mm | 404,603,802C, | 27.7 | 57 | SME10H1 SME250H1 | 18.0 | 40 | SME1001 SME25001 | 228995 |
| | 406,604,803 | | 77 | SME10H2 SME250H2 | | 57 | SME1002 SME25002 | On request |
| 13"/300mm | 408,606,804 | 76.0 | 126 | SME13H1 SME300H1 | 49.4 | 95 | SME1301 SME30001 | 310245 |
| | 410,608,806 | | 176 | SME13H2 SME300H2 | | 132 | SME1302 SME30002 | On request |
| 16"/400mm | 412,610,808 | 138.8 | 245 | SME16H1 SME400H1 | 90.2 | 185 | SME1601 SME40001 | 485530 |
| 19"/500mm | 414,612,810 | 277.0 | 368 | SME19H1 SME500H1 | 180.0 | 272 | SME1901 SME50001 | 745900 |
| | 416,614,812 | | 500 | SME19H2 SME500H2 | | 360 | SME1902 SME50002 | On request |
| 23"/600mm | 418,616,814 | 555.0 | 740 | SME23H1 SME600H1 | 361.0 | 540 | SME2301 SME60001 | 1206775 |
| | 618,816 | | 960 | SME23H2 SME600H2 | | 730 | SME2302 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 | 47105 | 9GDA01 | 55780 | 9GDB01 | 67420 | 9GDC01 | 107030 |
|  Coil Series for inch for mm | - | - | 9GDA02/ 9GDA03 | 118835 | 9GDB02/ 9GDB03 | 186260 | 9GDC02/ 9GDC03 | 240880 |
|  Torque Adj. Screw Assembly | 9GDS04 | 4295 | 9GDA04 | 4490 | 9GDB04 | 4490 | 9GDC04 | 7805 |
|  Torque Spring | 9GDS05 | 11700 | 9GDA05 | 12215 | 9GDB05 | 14430 | 9GDC05 | 23360 |
|  Wedge Assembly with Bolt, Spring and Washers for inch/mm | 9GDS20/ 9GDS22 | 1670 | 9GDA20/ 9GDA22 | 1910 | 9GDB20/ 9GDB22 | 2220 | 9GDC20/ 9GDC22 | 3390 |
|  Pin set for Lever & Armature Consisting of a) Pin Lever 2 Nos. b) Pin armature 2 Nos. | 9GDS06 | 5900 | 9GDA06 | 6190 | 9GDB06 | 6190 | 9GDC06 9GDC06-2# | 7805 |
|  Coller Set of Lever & Armature Consisting of a) Coller Lever 4 Nos. a) Coller Armature 4 Nos. | 9GDS07 | 5900 | 9GDA07 | 6190 | 9GDB07 | 6190 | 9GDC07 | 7420 |
|  Bush Set for Lever & Armature Consisting of a) Bush Lever 4 Nos. a) Bush Armature 4 Nos. | 9GDS08 | 11700 | 9GDA08 | 12265 | 9GDB08 | 12265 | 9GDC08 | 13365 |
|  Pull Rod Assembly with nuts, spring & washer | 9GDS29 | 4785 | 9GDA29 | 5005 | 9GDB29 | 6190 | 9GDC29 | 9515 |
| Grease Nipple (1 set consist 8 Nos.) | 9GDS09 | 1670 | 9GDA09 | 1770 | 9GDB09 | 1770 | 9GDC09 | 1790 |
|  Shoe Assembly with Clamp & Bolts (1 set consist 2 Nos.) for inch/mm | 9GDS10/ 9GDS11 | 12180 | 9GDA10/ 9GDA11 | 12130 | 9GDB10/ 9GDB11 | 15045 | 9GDC10/ 9GDC11 | 23685 |
|  Shoe Lining without Bolts (1 set consist 2 Nos.) for inch for mm | 9GDS12/ 9GDS13 | 4130 | 9GDA12/ 9GDA13 | 4295 | 9GDB12/ 9GDB13 | 5405 | 9GDC12/ 9GDC13 | 7805 |
|  Shoe Lining with Bolts (1 set consist 2 Nos.) for inch for mm | 9GDS23/ 9GDS26 | 5580 | 9GDA23/ 9GDA26 | 6190 | 9GDB23/ 9GDB26 | 7805 | 9GDC23/ 9GDC26 | 11150 |
|  Dust Cover (made of jeans cloth & painted with fire reterdent al. paint). | - | - | 9GDA30 | 6890 | 9GDB30 | 6890 | 9GDC30 | 8195 |
|  mm Size Cast Steel Drum without Hard Chrome Plaiting | 9GDS15/ (150mm) 9GDS14 (160mm) | 13310 | 9GDA14 | 14650 | 9GDB14 | 22550 | 9GDC14 | 38000 |
|  mm Size Cast Steel Drum with Hard Chrome Plaiting | 9GDS15P/ (150mm) 9GDS14P (160mm) | 17975 | 9GDA14P | 20965 | 9GDB14P | 32735 | 9GDC14P | 55065 |
|  Cast Steel Drum without Hard Chrome Plaiting* for inch | - | - | 9GDA15 | 15190 | 9GDB15 | 23375 | 9GDC15 | 39515 |
|  Cast Steel Drum with Hard Chrome Plaiting* for inch | - | - | 9GDA15P | 21800 | 9GDB15P | 33540 | 9GDC15P | 57305 |

* 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

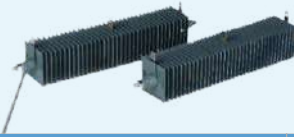
Spares & Accessories - DC Brakes

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 | 162700 | 9GDE01 | 228430 | 9GDF01 | 358990 | 9GDG01 | 813325 |
|  Coil Series | for inch 9GDD02 for mm 9GDD03 | 354410 | 9GDE02 9GDE03 | 462285 | 9GDF02 9GDF03 | 714605 | - | - |
|  Torque Adj. Screw Assembly | 9GDD04 | 11660 | 9GDE04 | 16625 | 9GDF04 | 26575 | 9GDG04 | 55665 |
|  Torque Spring | 9GDD05 | 35895 | 9GDE05 | 49660 | 9GDF05 | 82235 | 9GDG05 | 176485 |
|  Wedge Assembly with Bolt, for inch for mm | 9GDD20/ 9GDD22 | 4490 | 9GDE20/ 9GDE22 | 7275 | 9GDF20/ 9GDF22 | 10560 | 9GDG20/ 9GDG22 | 23390 |
|  Pin set for Lever & Armature Consisting of | for inch 9GDD06* for mm 9GDD06-2# | 9515 | 9GDE06* 9GDE06-2# | 9515 | 9GDF06* 9GDF06-2# | 13365 | 9GDG06 ⁺⁺ | 40450 |
| a) Pin Lever 2 Nos. b) Pin Armature 2 Nos. | | | | | | | | |
|  Collar Set of Lever & Armature Consisting of | 9GDD07 | 7420 | 9GDE07 | 7275 | 9GDF07 | 9095 | 9GDG07 ⁺ | 14930 |
| a) Coller Lever 4 Nos. b) Coller Armature 4 Nos. | | | | | | | | |
|  Bush Set for Lever & Armature Consisting of | 9GDD08 | 13675 | 9GDE08 | 14325 | 9GDF08 | 18335 | 9GDG08 ⁺⁺ | 32615 |
| a) Bush Lever 4 Nos. b) Bush Armature 4 Nos. | | | | | | | | |
|  Pull Rod Assembly with nuts, spring & washer | 9GDD29 | 14430 | 9GDE29 | 19955 | 9GDF29 | 26815 | 9GDG29 | 70150 |
|  Grease Nipple (1 set consist 8 Nos.) | 9GDD09 | 1820 | 9GDE09 | 3135 | 9GDF09 | 3135 | 9GDG09 | 3465 |
|  Shoe Assembly with Clamp & Bolts for inch (1 set consist 2 Nos.) | for mm 9GDD10/ 9GDD11 | 35950 | 9GDE10/ 9GDE11 | 49730 | 9GDF10/ 9GDF11 | 79505 | 9GDG10/ 9GDG11 | 178925 |
|  Shoe Lining without Bolts | for inch 9GDD12/ (1 set consist 2 Nos.) for mm 9GDD13 | 12235 | 9GDE12/ 9GDE13 | 19955 | 9GDF12/ 9GDF13 | 29525 | 9GDG12/ 9GDG13 | 55790 |
|  Shoe Lining with Bolts | for inch 9GDD23/ (1 set consist 2 Nos.) for mm 9GDD26 | 15045 | 9GDE23/ 9GDE26 | 24890 | 9GDF23/ 9GDF26 | 38670 | 9GDG23/ 9GDG26 | 68995 |
|  Dust Cover (made of jeans cloth & painted with fire reterdent al. paint). | 9GDD30 | 8865 | 9GDE30 | 10960 | 9GDF30 | 11500 | - | - |
|  mm Size Cast Steel Drum without Hard Chrome Plaiting | 9GDD14 | 47510 | 9GDE14 | 77340 | 9GDF14 | 107560 | - | - |
| mm Size Cast Steel Drum with Hard Chrome Plaiting | 9GDD14P | 70730 | 9GDE14P | 112975 | 9GDF14P | 164545 | - | - |
| Cast Steel Drum without Hard Chrome Plaiting* for inch | 9GDD15 | 49550 | 9GDE15 | 80965 | 9GDF15 | 110510 | - | - |
| Cast Steel Drum with Hard Chrome Plaiting* for inch | 9GDD15P | 73925 | 9GDE15P | 118445 | 9GDF15P | 172440 | 9GDG15P | 292155 |

* 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 | 14490 |
| 9GDX02 | 1x10"/250mm | 2x8"/200mm | 2 | 21625 |
| 9GDX03 | 1x13"/300mm 1x16"/400mm | 2x10"/250mm | 2 | 29285 |
| 9GDX04 | 1x19"/500mm | 2x13"/300mm 2x16"/400mm | 2 | 38670 |
| 9GDX05 | 1x23"/600mm | 2x19"/500mm | 2 | 55150 |
| 9GDX06 | - | 2x23"/600mm | 2 | 110350 |
| 9GDX07 | 1x30"/700 & 800mm | - | 2 | 153015 |



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 | 2570 |
| 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 | 5730 | 5455 | 11065 | 11655 |
| 10 | 250 | 5730 | 6395 | | |
| 13 | 300 | 7855 | 9500 | | |
| 16 | 400 | 8425 | 14170 | | |
| 19 | 500 | 13080 | 19655 | | |
| 23 | 600 | 18330 | 22200 | | |

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 | 5450 | 8170 |
| | 0.05 - 60 Sec | 1NO + 1NC | - | KRTPN10-1 | 5640 | 8625 |
| | 0.05 - 180 Sec | 1NO + 1NC | - | KRTPN10-3 | 6370 | 9405 |
| | 0.05 - 30 Sec | 2NO + 2NC | - | KRTPN20-0 | 6125 | 8745 |
| | 0.05 - 60 Sec | 2NO + 2NC | - | KRTPN20-1 | 6255 | 8850 |
| | 0.05 - 180 Sec | 2NO + 2NC | - | KRTPN20-3 | 6725 | 9505 |
| PNI | 0.05 - 30 Sec | 1NO + 1NC | 1NO + 1NC | KRTPN11-0 | 6645 | 9510 |
| | 0.05 - 60 Sec | 1NO + 1NC | 1NO + 1NC | KRTPN11-1 | 7540 | 10385 |
| | 0.05 - 180 Sec | 1NO + 1NC | 1NO + 1NC | KRTPN11-3 | 8250 | 10510 |
| | 0.05 - 30 Sec | 2NO + 2NC | 2NO + 2NC | KRTPN22-0 | 8330 | 10850 |
| | 0.05 - 60 Sec | 2NO + 2NC | 2NO + 2NC | KRTPN22-1 | 8420 | 11415 |
| | 0.05 - 180 Sec | 2NO + 2NC | 2NO + 2NC | KRTPN22-3 | 9025 | 12075 |
| 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 | 9000 | 12050 |
| | 0.05 - 60 Sec | 1NO + 1NC | 1NO + 1NC | KRTPCN11-1 | 9450 | 12150 |
| | 0.05 - 180 Sec | 1NO + 1NC | 1NO + 1NC | KRTPCN11-3 | 10735 | 13425 |
| | 0.05 - 30 Sec | 2NO + 2NC | 2NO + 2NC | KRTPCN22-0 | 10115 | 13225 |
| | 0.05 - 60 Sec | 2NO + 2NC | 2NO + 2NC | KRTPCN22-1 | 10600 | 13380 |
| | 0.05 - 180 Sec | 2NO + 2NC | 2NO + 2NC | KRTPCN22-3 | 11955 | 14590 |

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 | 6555 | - |
| | 150 | 2NO + 2NC | - | KRTPN20A-3R | 6555 | - |

Accessories for Time Delay Relay HSN Code : 9107

| Description | Cat. No. | MRP [₹] | Lot Size |
|------------------------------------|-------------|---------|----------|
| Contact Block | | | |
| 1NO+1NC Timed | SP20S3+ | 1200 | 1 |
| 2NO+2NC Timed | SP20S4+ | 1565 | |
| 1NO+1NC Inst. | SP20S5+ | 1200 | |
| 2NO+2NC Inst. | SP20S6+ | 1565 | |
| Magnet Coil | | | |
| AC-PN Relays | SP20MC | 1685 | 1 |
| AC-PNI & PCN Relays | SP20MC1 | 1685 | |
| DC Relays | SP20MC2 | 5455 | |
| Return Spring* | SP20RS | 285 | 1 |
| (PNI & PCN) Coil Clip* | SP20CC | 455 | |
| Magnet frame assembly without coil | SP20 MAIMA1 | 2455 | 1 |
| Knob assembly | SP20KA | 85 | 10 |

* These are supplied with plastic cover

* For DC Timers only

- To complete suffix voltage code refer to the table

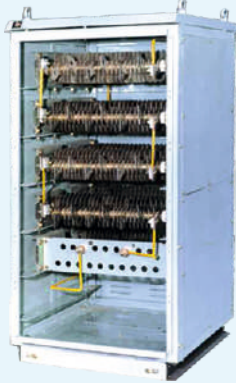
- High Repeat Accuracy
- Operating Temperature - 40⁰ to +65⁰
- Mechanical and Electrical Life - 10 million operations

Voltage Suffix Code

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

* KRTPN timers with 24V AC, 110V DC & 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 | 24295 |
| WL12 | 0.125 | 200 | 21490 |
| WL16 | 0.16 | 180 | 24830 |
| WL20 | 0.2 | 150 | 25350 |
| WL25 | 0.25 | 134 | 22385 |
| WL32 | 0.32 | 118 | 19815 |
| WL40 | 0.4 | 113 | 22920 |
| WL50 | 0.5 | 100 | 19360 |
| WL62 | 0.62 | 84 | 24990 |
| WL80 | 0.8 | 75 | 22645 |
| WL100 | 1 | 67 | 21050 |
| WL125 | 1.25 | 64 | 23430 |
| WL160 | 1.6 | 57 | 20220 |
| WL200 | 2 | 54 | 22505 |
| WL250 | 2.5 | 48 | 19870 |
| WL320 | 3.2 | 43 | 17405 |
| WL400 | 4 | 40 | 24240 |
| WL500 | 5 | 35 | 17590 |
| WL625 | 6.25 | 33 | 20090 |
| WL800 | 8 | 29 | 18745 |
| WL1200 | 12 | 21 | 20090 |
| WL1600 | 16 | 19 | 19490 |

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

| Type | Resistance Per Bank | Continuous Rating | LP |
|------------|---------------------|-------------------|-------|
| | Ohms | Amps | [₹] |
| WLL20(M)-1 | 0.325 | 150 | 39415 |
| WLL25(M)-1 | 0.54 | 134 | 37685 |
| WLL32(M)-1 | 0.68 | 118 | 31955 |
| WLL50(M)-1 | 0.864 | 100 | 27080 |

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



- FREEDOM 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**
- **Push Buttons & Indicating Lights**



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



BCH

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 Boxes IP: 55, IP: 66
- 'BCH-SS' (Stainless Steel) Boxes
- Terminal Boxes IP:55 & IP:66
- Techno - Modular Enclosures
- TCE Series Enclosure
- Compartmentalized Enclosure (Fixed & Draw-out)
- IT Racks - 19" and ETSI Racks



For above products, please refer "Enclosures" price list

Motors



IE2, IE3 & IE4

50°C
ambient temperature

Class F



- 0.12 HP to 425 HP
- 2 to 8 Poles
- With forced cooling
- Upto 40 intermediate standard ratings
- High efficiency, consistent - life long
- Low loss for entire life
- Inverter duty motor
- No deration upto 50° C
- Dual coat winding wire as standard feature
- 6 terminals across the range
- Top, LHS, RHS termination flexibility
- ISI marking

For above products price list, please contact nearest BCH sales office.

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

Custom Built Products



- MCC & PCC
- APFC Panels
- Crane Control Panels
- Punch Grid Resistors & Panels, NGR & DBR
- Special Purpose Starters
- Power Receptacles
- Auto Transformer Starters





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 ...



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www.bchindia.com



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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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Fax : 040-66207273
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