

Branch Offices:

AHMEDABAD

B-802, Iscon Elegance, Nr. Prahlad Nagar Corner, Opp. Karnavati Club, S.G. Highway, Ahmedabad-380051
Ph.: 079 - 66168835/36
E-mail: ahmedabad@hplindia.com

BANGALORE

No.2D, IInd Floor, Farah Winsford, 133, Infantry Road, Bangalore - 560001
Ph.: 080-22863068/69
E-mail: bangalore@hplindia.com

BHUBANESWAR

N3-135, IRC Village, Nayabali, Behind Old Sai Baba Temple, Bhubaneswar-751012, Ph.: 0674-2550826
E-mail: orissa@hplindia.com

CHANDIGARH

SCO-14, 1st Floor, Industrial & Business Park, Phase-II, Chandigarh-160002
Ph.: 0172-2639157/ 8146404442
E-mail: chandigarh@hplindia.com

CHENNAI

"Amar Sindur" S-4, 2nd Floor, No.-43, Pantheon Road, Egmore, Chennai-600 008
Ph.: 044-28551530, 28551537
Fax: 044-42638243
E-mail: chennai@hplindia.com

COCHIN

1st Floor, A.K.S. Mahal Building, XL/7813J, Achutha Warriar Lane, M.G.Road, Ernakulam, Cochin-682035
Telefax: 0484-2354595
E-mail: cochin@hplindia.com

COIMBATORE

Designer Complex, Door No.130, C/2, 2nd Floor, Dr. Nanjappa Road, Coimbatore - 641018
Ph.: 0422-4393995
E-mail: coimbatore@hplindia.com

DEHRADUN

09/4/6, 1st Floor, East Canal Road, (Near Doon Defence Academy) Dehradun-248001
Ph.: 0135-2710567, 2710587
E-mail: Uttranchal@hplindia.com

GUWAHATI

Rajgarh Road, Opposite China Town Restaurant, Guwahati-781003
Ph.: 0361-2450889
E-mail: guwahati@hplindia.com

HUBLI

9-10, 1st Floor, Vernekar Plaza, Desh Pande Nagar, Hubli-580029
Ph.: 0836-4251463
E-mail: hubli@hplindia.com

HYDERABAD

No. 7-1-58, Flat No.403, 4th Floor, Concourse Building, Green Lands Road, Hyderabad-500016
Ph.: 040-66687878
E-mail: hyderabad@hplindia.com

INDORE

203, Millinda Manor 2, RNT Marg, Near Ravindra Natya Grah, Indore-452001,
Ph.: 0731-4280525, 4225540
E-mail: Indore@hplindia.com

JAIPUR

512, 5th Floor, Plot No. 8-9, Corporate Park, Gopal Bari, Ajmer Road, Jaipur-302001
Ph.: 0141-4021035
E-Mail: jaipur@hplindia.com

JAMMU

Plot No.86, Yard No.6, Transport Nagar, Jammu-180006
E-mail: jammu@hplindia.com

KOLKATA

69, Ganesh Chandra Avenue, India House, 7th Floor, Block-C, Kolkata-700013
Ph.: +91 9038094379
E-Mail: calcutta@hplindia.com

LUCKNOW

1st Floor, Jain Building, 14/A5, Park Road Hazratganj, Lucknow-226001
Ph.: 0522-4021687
E-Mail: lucknow@hplindia.com

LUDHIANA

698 - D, Model Town Extn., Opp. Silverstone Hotel, Ludhiana-141003
Ph.: 0161-4062877
E-Mail: ludhiana@hplindia.com

MUMBAI

2C/H, Rushabh Chambers, 2nd Floor, Off-Makwana Road, Near Rubi Hotel, Marol, Andheri East, Mumbai-400059
E-mail: mumbai@hplindia.com

NAGPUR

Jagtap House, Plot No. 07, 1st Floor, Ganesh Gruh Nirman Society, Near Ganesh Mandir, Ring Road, Pratap Nagar, Nagpur-440022,
Ph.: 0712-2222988
E-mail: nagpur@hplindia.com

PATNA

Hem Plaza, 5th Floor - 510 Frazer Road, Patna-800001(Bihar)
Ph. : +91 9334697299
E-mail: patna@hplindia.com

PUNE

Sunrise Skyline 3rd Floor, Plot No. 28/2 Scheme No. 11 B Opp. MSEP Office Somwar Peth Pune-411001 Ph.: +91 9028032724
E-mail: pune@hplindia.com

RAIPUR

1st Floor, Near Holy Heart School Chattisgarh College Road, Civil Line, Raipur (C.G.)-492006 Ph.: 0771-4218002/04
E-mail: raipur@hplindia.com

RANCHI

203, 2nd Floor, Mahalaxmi Complex, Line Tank Road, Ranchi-834001
Telefax: 0651-2206144
E-mail: ranchi@hplindia.com

SILIGURI

1st Floor, Parasuna Bhawan, Ward No.13, Udham Singh Sarani, Asram Para, Siliguri-734001

VADODARA

409/410, Silver Oak Complex, Near Sainik Park, Char Rasta, Productivity Road, Akota, Vadodara - 390020 Gujarat
Ph.: 0265-2341747, Fax:0265-2352107
E-mail: baroda@hplindia.com

VIJAYAWADA

D.No.-29-37-135, 2nd Floor, G. R. Plaza, Eluru Road, Beside Canara Bank, Vijayawada-520002
Ph.: 0866-6622291
E-mail: vijayawada@hplindia.com

VIZAG

B.K. Towers, 49-34-1/63, 3rd Floor Akka Yyapalem Main Road, NH-5 Junction, Vizag-530016 (A.P.)
Ph.: 0891-2794506
E-mail: vizag@hplindia.com

Resident Offices:

| | | | | | | |
|------------|-----------|------------|-------------|-------------|------------|----------|
| Agartala | Balasure | Davangere | Jharsuguda | Moradabad | Silchar | Vapi |
| Agra | Belgaum | Durg | Jodhpur | Mysore | Surat | Varanasi |
| Allahabad | Berhampur | Goa | Kanyakumari | Nagercoil | Sholapur | Vellore |
| Anantpuram | Bhilai | Gorakhpur | Kolhapur | Nasik | Srinagar | |
| Aurangabad | Bhopal | Gulbarga | Kota | Patiala | Sambalpur | |
| Amravati | Bilaspur | Jabalpur | Madurai | Pondicherry | Tirupati | |
| Akola | Bijapur | Jabli | Malda | Rajkot | Trichy | |
| Angul | Calicut | Jamshedpur | Mangalore | Rourkela | Trivandrum | |
| Bareilly | Cuttack | Jalandhar | Meerut | Salem | Udaipur | |



HPL Electric & Power Ltd

Corp. Office: Windsor Business Park, B-1D, Sector-10, Noida, U.P. - 201301, INDIA.
Tel.: +91-120-4656300, Fax: +91-120-4656333
Registered Office: 1/20, Asaf Ali Road, New Delhi - 110 002, INDIA.
E-mail: hpl@hplindia.com

Customer Care No. :
18004190198

www.hplindia.com

HPL/CLBS/05-20



Cubicle Load Break Switch from 63A to 3150A



- Arc Chute
- Terminal Shroud
- Phase Separator

www.hplindia.com



Cubicle Load Break Switch



Application

The HPL make Cubicle Load Break Switch is 4 Pole manually operated, consisting of two sets of terminals for connecting to incoming supply & load. It ensures safe isolation and is suitable for use in individual enclosures, switch boards, lighting and power panels etc. with following features :-

- Suitable for incoming and outgoing feeders.
- 2 stable positions (I - O).
- Fully visualized breaking.
- Pre equipped terminal cover, phase barrier with all ratings.
- Compact design - saves panel space / supports easy maintenance.
- Quick Make & Break type irrespective of human torque.
- Resistant to Tropical conditions & polluted environment.
- High thermal & dynamic withstand capacity.
- Self extinguishing fiberglass re-inforced insulating body.
- Available in open execution, Steel sheet enclosure & Direct Mounted type.
- AC 23 A Category.
- Bounce free contacts.
- Any pole can be used as Neutral pole... true 4 pole switch.
- Unique safety handle with built in door padlock facility.
- 3 lock pad lock, lockable in ON & OFF positions.
- Castle lock, interlocking two isolators.
- High Electrical & Mechanical life.

HIGHLIGHTS

- ▶ Conforms to IS/IEC:60947-3.
- ▶ Available in 6 frame sizes... rated current from 63A to 3150A.
- ▶ Compact Design.
- ▶ Quick Make & Quick Break mechanism (spring load contact).
- ▶ Clear indication of 'ON' & 'OFF' Position (I - O).
- ▶ High Mechanical & Electrical life.
- ▶ Arc chute plates to enhance contact life.
- ▶ 100% Neutral rating... true 4 pole switch.
- ▶ Line load reversibility.
- ▶ Vertical or lateral mounting.
- ▶ Suitable for both aluminum & copper termination.
- ▶ Total safety : All moving and live parts covered.
- ▶ Terminal cover, phase barrier as standard feature.
- ▶ ROHS Compliant.
- ▶ Wide range of accessories.



- Terminal Shroud & Phase barrier as standard design product
- Enclosed operating rod
- 3 lock pad lockable handle in both ON & OFF positions



Self Fire Extinguishing



Load Line Reversibility



Positive Isolation

Approvals & Test

- Time tested
- Customer Accepted
- CPRI Tested
- ISO 9001 Certified



Globally Accepted exporting to over 25 countries



Cubicle Load Break Switch



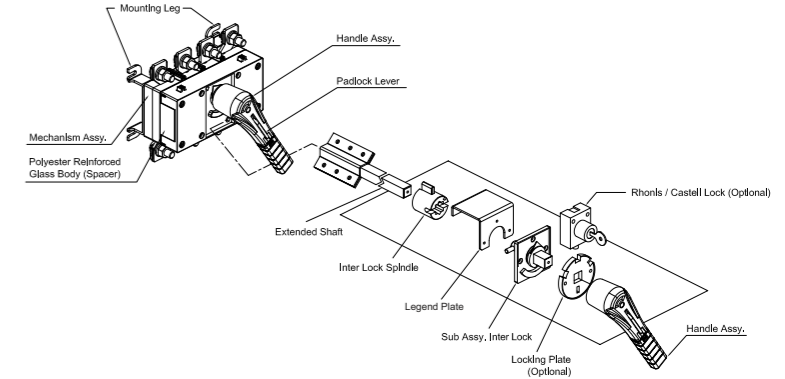
Overview (Operations)

Direct

The pad lockable handle is mounted directly on the Cubicle Load Break Switch and is lockable in OFF & ON position.

External

The pad lockable handle is to be mounted on the panel door and lockable in OFF position. The external front operation ensures that the door is locked in ON position.

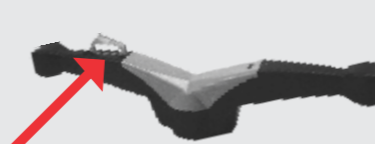


Accessories

Handle up to 630A



Handle for 800A and above



Handle with padlock lever



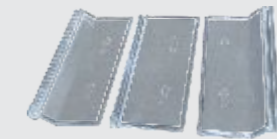
Castell Lock



Extended Shaft



Door Inter Lock Assy.

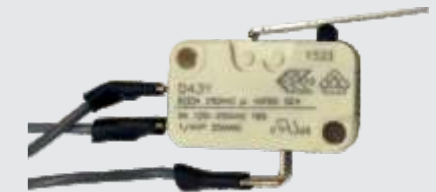


Inter-Phase barriers

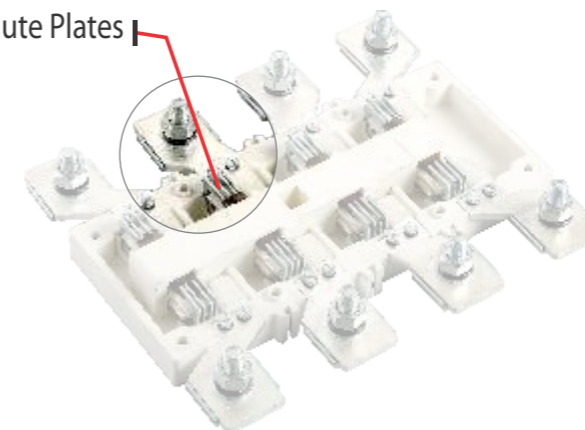


Terminal Shroud

Auxiliary Contact



Arc Chute Plates



Working Principle:

Arc Chamber

The Arc Chamber is specially designed and provided with arc chute plates with an arc channel as a flow guide to reduce the arc length, thereby improving the capability of extinguishing the arc. This enhances the life of the moving & stationary contacts thereby increasing the life of the product.



Cubicle Load Break Switch



Specification Electrical & Mechanical Characteristic

| Specification | Current Rating | | | | | | | |
|--|----------------|------|------|---------|------|------|---------|------|
| | Frame-0 | | | Frame-1 | | | Frame-2 | |
| Frame Sizes | 63A | 80A | 100A | 125A | 160A | 200A | 250A | 320A |
| Thermal Current (Ith) 40°C | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 |
| Max. Normal rating of fuses | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 |
| Insulation voltage Ui (Vac) | 750 | 750 | 750 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Dielectric strength (Vac) 50 Hz 1 minute | 4000 | 4000 | 4000 | 5000 | 5000 | 5000 | 5000 | 5000 |
| Impulse voltage (KV) | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 8 |

Rated Operational Current Ie (A)

| | | | | | | | | |
|-----------------|----|----|-----|-----|-----|-----|-----|-----|
| 415 Vac: AC 23A | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 320 |
| 415 Vac: AC 21A | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 320 |
| 500 Vac: AC 23A | 55 | 55 | 55 | 100 | 130 | 160 | 200 | 250 |
| 260V dc: DC 21A | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 320 |
| DC 22A | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 320 |
| DC 23A | 63 | 63 | 63 | 125 | 160 | 160 | 200 | 250 |
| 440V dc: DC 21A | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 320 |
| DC 22A | 63 | 80 | 100 | 125 | 130 | 160 | 200 | 250 |
| DC 23A | 63 | 63 | 63 | 125 | 130 | 160 | 200 | 250 |

Motor Power (KW) 415V

| | | | | | | | | |
|--|----|----|----|-----|-----|-----|-----|-----|
| 415 Vac without pre break Aux. Contact | 30 | 30 | 30 | 63 | 70 | 80 | 132 | 160 |
| 500 Vac without pre break Aux. Contact | 30 | 30 | 30 | 60 | 63 | 63 | 140 | 220 |
| 690 Vac without pre break Aux. Contact | 22 | 22 | 22 | 50 | 55 | 55 | 90 | 150 |
| 415 Vac with pre break Aux. Contact | 30 | 30 | 30 | 63 | 70 | 80 | 132 | 160 |
| 500 Vac with pre break Aux. Contact | 30 | 30 | 30 | 70 | 80 | 80 | 160 | 220 |
| 690 Vac with pre break Aux. Contact | 35 | 35 | 35 | 100 | 110 | 110 | 110 | 220 |
| Motor Reactive 415 Vac (kVAR) | 25 | 25 | 25 | 50 | 55 | 60 | 100 | 125 |

Overload Capacity

| | | | | | | | | |
|--|----|----|-----|-----|-----|-----|-----|-----|
| Short circuit current with fuses (kA RMS) | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Fuse Rating | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 |
| Peak short circuit making capacity (kA RMS) | 15 | 15 | 15 | 20 | 20 | 20 | 30 | 45 |
| Admissible short time current 1 sec (kA RMS) | 5 | 5 | 5 | 7 | 7 | 7 | 13 | 13 |

Making & Breaking Characteristics

| | | | | | | | | |
|---|-----|-----|-----|------|------|------|------|------|
| Breaking capacity (A RMS) 415 Vac pf=0.35 | 504 | 504 | 504 | 1000 | 1280 | 1600 | 2000 | 2520 |
| Making capacity (A RMS) 415 Vac pf=0.35 | 630 | 630 | 630 | 1250 | 1600 | 2000 | 2500 | 3150 |

Endurance

| | | | | | | | | |
|-------------------------------------|-------|-------|-------|------|------|------|------|------|
| Mechanical Life (No. of Operations) | 10000 | 10000 | 10000 | 8000 | 8000 | 8000 | 8000 | 5000 |
| Electrical Life (No. of Operations) | 2500 | 1500 | 1500 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Operating Torque (N-m) | 3.5 | 3.5 | 3.5 | 9.5 | 9.5 | 9.5 | 11 | 11 |

Connection

| | | | | | | | | |
|--|----|------|------|----|----|-----|-----|-----|
| Min. Cu. Cable / Bus bar size (mm ²) | 16 | 25 | 25 | 50 | 70 | 95 | 120 | 185 |
| Min. Al. Cable / Bus bar size (mm ²) | 25 | 25X2 | 25X2 | 70 | 95 | 150 | 185 | 240 |



Cubicle Load Break Switch



Specification Electrical & Mechanical Characteristic

| Specification | Current Rating | | | | | | | | |
|--|----------------|------|------|---------|---------|---------|----------|----------|----------|
| | Frame-3 | | | Frame-4 | Frame-5 | | | | |
| Frame Sizes | 400A | 630A | 800A | 1000A | 1250A | 1600A | 2000A | 2500A | 3150A |
| Thermal Current (Ith) 40°C | 400 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 |
| Max. Normal rating of fuses | 400 | 630 | 800 | 1000 | 1250 | 2 x 800 | 2 x 1000 | 2 x 1250 | 2 x 1250 |
| Insulation voltage Ui (Vac) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Dielectric strength (Vac) 50 Hz 1 minute | 8000 | 8000 | 8000 | 8000 | 10000 | 10000 | 10000 | 10000 | 10000 |
| Impulse voltage (KV) | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |

Rated Operational Current Ie (A)

| | | | | | | | | | |
|-----------------|-----|-----|-----|------|------|------|------|------|------|
| 415 Vac: AC 23A | 400 | 630 | 800 | 1000 | 1000 | 1000 | 1250 | 1250 | 1250 |
| 415 Vac: AC 21A | 400 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 |
| 500 Vac: AC 23A | 315 | 315 | 630 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 260V dc: DC 21A | 400 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2000 | 2000 |
| DC 22A | 400 | 500 | 800 | 1000 | 1250 | 1250 | 1250 | 1250 | 1250 |
| DC 23A | 400 | 500 | 800 | 1000 | 1250 | 1250 | 1250 | 1250 | 1250 |
| 440V dc: DC 21A | 400 | 500 | 630 | 1000 | 1250 | 1600 | 2000 | 2000 | 2000 |
| DC 22A | 400 | 500 | 800 | 1000 | 1250 | 1250 | 1250 | 1250 | 1250 |
| DC 23A | 400 | 500 | 800 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |

Motor Power (KW) 415V

| | | | | | | | | | |
|--|-----|---------|---------|---------|---------|--------|---------|---------|---------|
| 415 Vac without pre break Aux. Contact | 200 | 220 | 450 | 560 | 560 | 560 | 710 | 710 | 710 |
| 500 Vac without pre break Aux. Contact | 220 | 220 | 450 | 560 | 560 | 710 | 710 | 710 | 710 |
| 690 Vac without pre break Aux. Contact | 150 | 150 | 185 | 400 | 400 | 475 | 475 | 750 | 750 |
| 415 Vac with pre break Aux. Contact | 220 | 355 | 450 | 560 | 710 | 710 | 900 | 1100 | 1155 |
| 500 Vac with pre break Aux. Contact | 280 | 355 | 550 | 710 | 710 | 900 | 900 | 1100 | 1100 |
| 690 Vac with pre break Aux. Contact | 220 | 295 | 475 | 600 | 600 | 750 | 750 | 900 | 900 |
| Motor Reactive 415 Vac (kVAR) | 150 | 2 x 125 | 2 x 150 | 3 x 150 | 4 x 125 | 5x 150 | 6 x 150 | 7 x 150 | 9 x 150 |

Overload Capacity

| | | | | | | | | | |
|--|-----|-----|-----|------|------|---------|----------|----------|----------|
| Short circuit current with fuses (kA RMS) | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Fuse Rating | 400 | 630 | 800 | 1000 | 1250 | 2 x 800 | 2 x 1000 | 2 x 1250 | 2 x 1250 |
| Peak short circuit making capacity (kA RMS) | 45 | 45 | 55 | 105 | 105 | 110 | 110 | 110 | 120 |
| Admissible short time current 1 sec (kA RMS) | 13 | 13 | 26 | 50 | 50 | 50 | 50 | 50 | 55 |

Making & Breaking Characteristics

| | | | | | | | | | |
|---|------|------|------|-------|-------|-------|-------|-------|-------|
| Breaking capacity (A RMS) 415 Vac pf=0.35 | 3200 | 5040 | 6400 | 8000 | 8000 | 8000 | 10000 | 10000 | 10000 |
| Making capacity (A RMS) 415 Vac pf=0.35 | 4000 | 6300 | 8000 | 10000 | 10000 | 10000 | 12500 | 12500 | 12500 |

Endurance

| | | | | | | | | | |
|-------------------------------------|------|------|------|------|------|------|------|------|------|
| Mechanical Life (No. of Operations) | 5000 | 5000 | 4000 | 4000 | 4000 | 3000 | 3000 | 2500 | 2500 |
| Electrical Life (No. of Operations) | 1000 | 1000 | 500 | 500 | 500 | 500 | 500 | 500 | 500 |
| Operating Torque (N-m) | 17 | 17 | 40 | 40 | 40 | 40 | 60 | 60 | 60 |

Connection

| | | | | | | | | | |
|--|--------|--------|--------|---------|---------|---------|----------|----------|----------|
| Min. Cu. Cable / Bus bar size (mm ²) | 30x5x2 | 40x5x2 | 50x5x2 | 60x5x2 | 80x5x2 | 100x5x2 | 100x5x3 | 100x5x4 | 100x10x3 |
| Min. Al. Cable / Bus bar size (mm ²) | 32x8x2 | 40x8x2 | 50x8x2 | 50x10x2 | 63x12x2 | 100x8x2 | 100x10x3 | 100x10x4 | ----- |

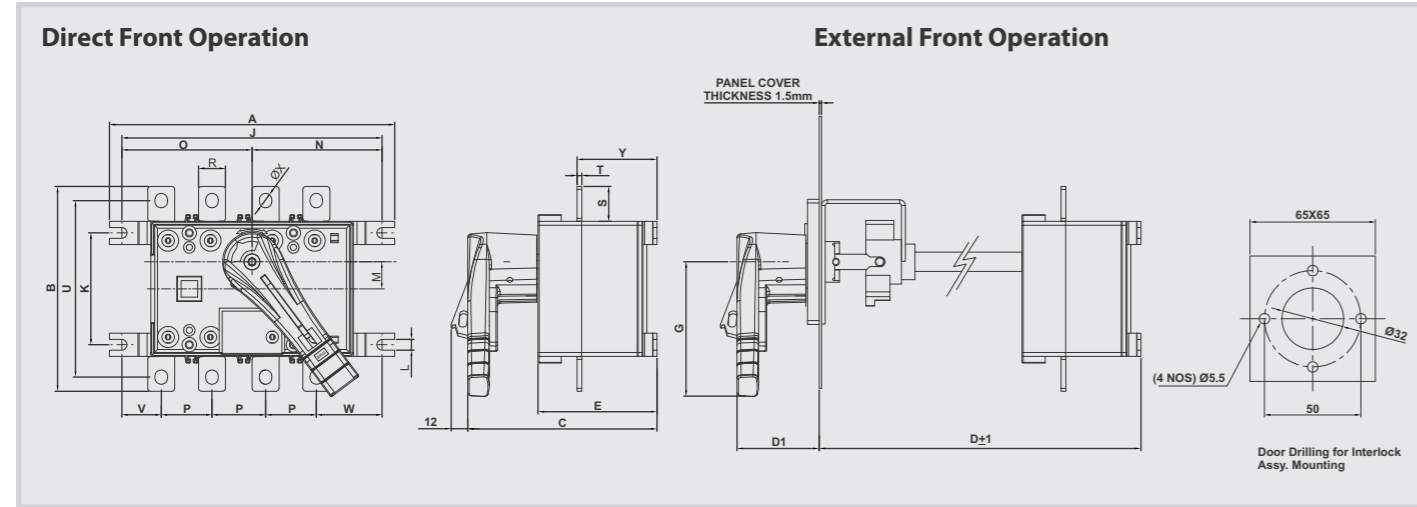


Cubicle Load Break Switch



Dimensional Details 4P:

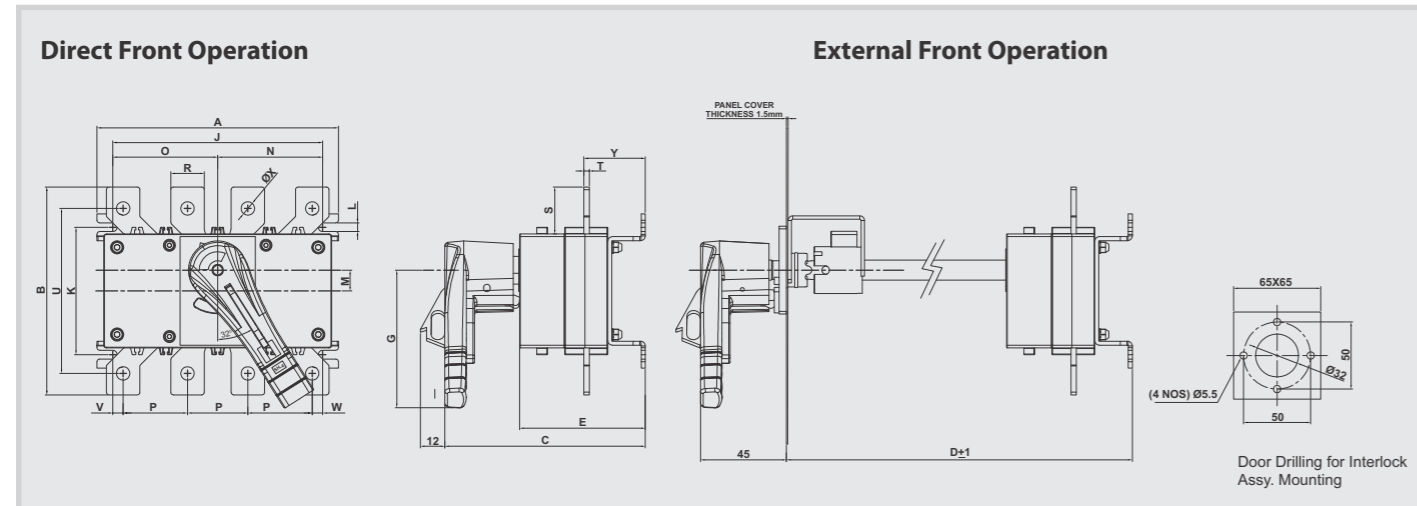
Load Break Switch 63A To 100A



| Over All Dimension | | Fixing of SW. | | | | | Connection Terminal | | | | | | | | | | SW. W.T. | | | | | | |
|--------------------|-----|---------------|----|-----|----|----|---------------------|-----|----|-----|----|------|------|----|----|----|----------|----|------|----|-----|----|----------|
| Rating | A | B | C | D | D1 | E | G | J | K | L | M | N | O | P | R | S | T | U | V | W | ØX | Y | Open Ex. |
| 4x63A | 148 | 106 | 98 | 126 | 45 | 62 | 80 | 135 | 58 | 5.5 | 14 | 67.5 | 67.5 | 27 | 14 | 18 | 2.5 | 91 | 20.5 | 34 | 6.5 | 42 | 1 Kg. |
| 4x80A | 148 | 106 | 98 | 126 | 45 | 62 | 80 | 135 | 58 | 5.5 | 14 | 67.5 | 67.5 | 27 | 14 | 18 | 2.5 | 91 | 20.5 | 34 | 6.5 | 42 | 1 Kg. |
| 4x100A | 148 | 106 | 98 | 126 | 45 | 62 | 80 | 135 | 58 | 5.5 | 14 | 67.5 | 67.5 | 27 | 15 | 18 | 2.5 | 91 | 20.5 | 34 | 6.5 | 42 | 1 Kg. |

Note: All dimensions in mm (Tolerance ±5%)

Load Break Switch 125A To 630A



| Over All Dimension | | Fixing of SW. | | | | | Connection Terminal | | | | | | | | | | SW. W.T. | | | | | |
|--------------------|-----|---------------|-----|-----|-----|-----|---------------------|-----|-----|----|-----|-----|----|----|----|-----|----------|------|------|------|----|----------|
| Rating | A | B | C | D | E | G | J | K | L | M | N | O | P | R | S | T | U | V | W | ØX | Y | Open Ex. |
| 4x125A | 180 | 141 | 150 | 164 | 94 | 116 | 162 | 95 | 6.5 | 15 | 81 | 81 | 44 | 22 | 28 | 3 | 118 | 15 | 15 | 8.5 | 46 | 1.8 Kg. |
| 4x160A | 180 | 155 | 150 | 164 | 94 | 116 | 162 | 95 | 6.5 | 15 | 81 | 81 | 47 | 25 | 35 | 4 | 123 | 10.5 | 10.5 | 10 | 46 | 2.1 Kg. |
| 4x200A | 180 | 155 | 150 | 164 | 94 | 116 | 162 | 95 | 6.5 | 15 | 81 | 81 | 47 | 25 | 35 | 4 | 123 | 10.5 | 10.5 | 10 | 46 | 2.1 Kg. |
| 4x250A | 240 | 192 | 160 | 176 | 104 | 150 | 217 | 111 | 6.5 | 20 | 109 | 109 | 64 | 32 | 46 | 4.5 | 152 | 15 | 9.5 | 12.5 | 48 | 3.1 Kg. |
| 4x320A | 240 | 192 | 160 | 176 | 104 | 150 | 217 | 111 | 6.5 | 20 | 109 | 109 | 64 | 32 | 46 | 4.5 | 152 | 15 | 9.5 | 12.5 | 48 | 3.1 Kg. |
| 4x400A | 304 | 240 | 200 | 192 | 144 | 150 | 280 | 180 | 9 | 30 | 140 | 140 | 72 | 40 | 40 | 5 | 206 | 30 | 30 | 11 | 49 | 6.0 Kg. |
| 4x630A | 304 | 270 | 200 | 192 | 144 | 150 | 280 | 180 | 9 | 30 | 140 | 140 | 80 | 55 | 55 | 5 | 230 | 20 | 20 | 14.5 | 49 | 7.0 Kg. |

Note: All dimensions in mm (Tolerance ±5%)

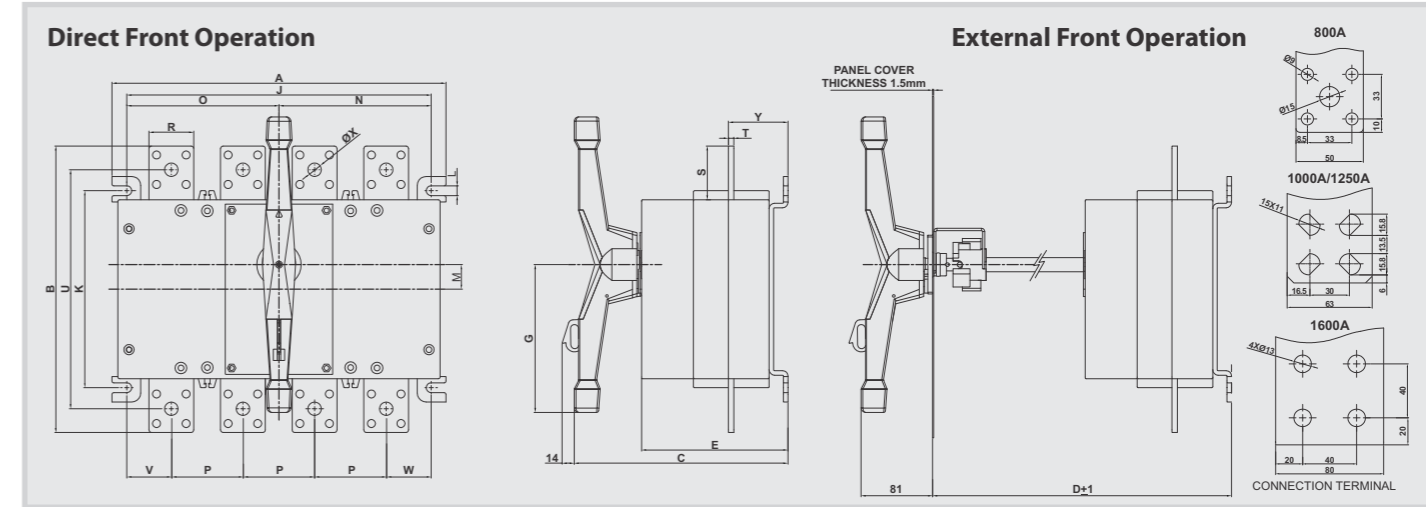


Cubicle Load Break Switch



Dimensional Details 4P:

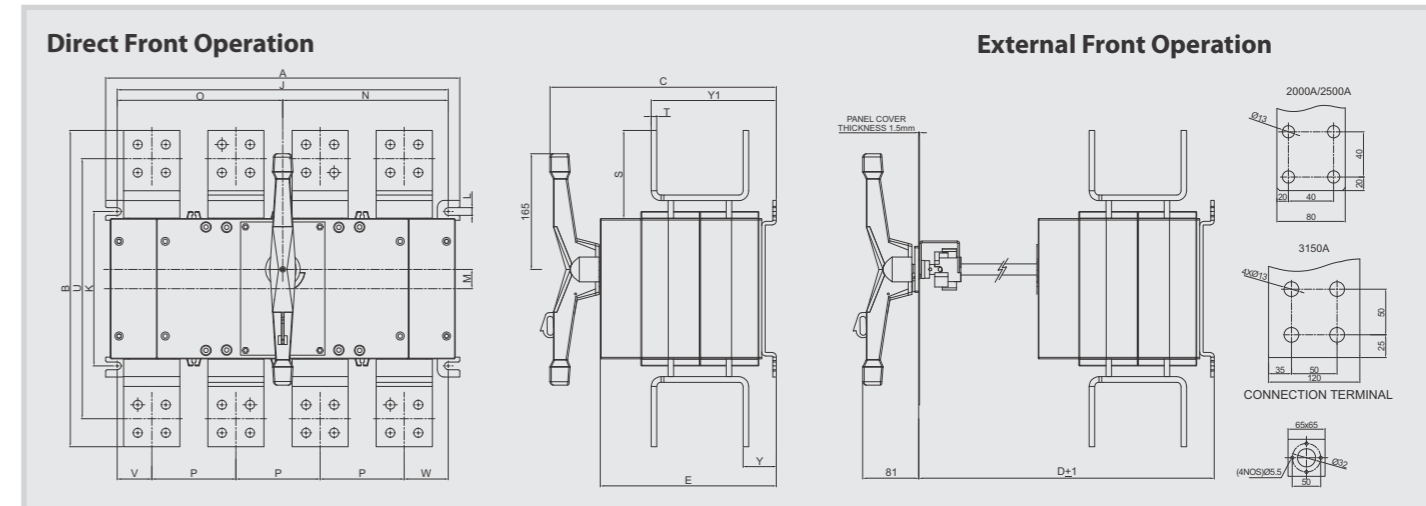
Load Break Switch 800A To 1600A



| Over All Dimension | | Fixing of SW. | | | | | Connection Terminal | | | | | | | | | | SW. W.T. | | | | | |
|--------------------|-----|---------------|-----|-----|-----|-----|---------------------|-----|----|----|-----|-----|-----|----|----|----|----------|----|----|----|----|----------|
| Rating | A | B | C | D | E | G | J | K | L | M | N | O | P | R | S | T | U | V | W | ØX | Y | Open Ex. |
| 4x800A | 373 | 320 | 235 | 234 | 164 | 165 | 340 | 220 | 11 | 28 | 170 | 170 | 80 | 50 | 60 | 6 | 267 | 50 | 50 | 15 | 67 | 11.7Kg. |
| 4x1000A | 505 | 330 | 235 | 234 | 164 | 165 | 474 | 220 | 11 | 28 | 237 | 237 | 120 | 63 | 65 | 6 | 273 | 50 | 63 | -- | 65 | 16.5 Kg. |
| 4x1250A | 505 | 330 | 235 | 234 | 164 | 165 | 474 | 220 | 11 | 28 | 237 | 237 | 120 | 63 | 65 | 7 | 273 | 50 | 63 | -- | 66 | 16.8 Kg. |
| 4x1600A | 505 | 361 | 235 | 234 | 164 | 165 | 474 | 220 | 11 | 28 | 237 | 237 | 120 | 80 | 80 | 15 | 281 | 50 | 63 | -- | 70 | 23.0 Kg. |

Note: All dimensions in mm (Tolerance ±5%)

Load Break Switch 2000A To 3150A



| Over All Dimension | | Fixing of SW. | | | | | Connection Terminal | | | | | | | | | | SW. W.T. | | |
|--------------------|-----|---------------|-----|-----|-----|-----|---------------------|----|-----|-----|-----|-----|----|-----|----|----|----------|-----|----------|
| Rating | A | B | C | D | E | J | K | M | N | O | P | S | T | U | V | W | Y | Y1 | Open Ex. |
| 4x2000A | 505 | 450 | 323 | 335 | 251 | 474 | 220 | 28 | 237 | 237 | 120 | 125 | 8 | 371 | 50 | 64 | 72 | 155 | 38.0 Kg. |
| 4x2500A | 505 | 450 | 323 | 335 | 251 | 474 | 220 | 28 | 237 | 237 | 120 | 125 | 10 | 371 | 50 | 64 | 73 | 156 | 39.5 Kg. |
| 4x3150A | 505 | 500 | 323 | 335 | 251 | 474 | 220 | 28 | 237 | 237 | 120 | 150 | 15 | 401 | 50 | 64 | 75 | 159 | 58.0 Kg. |

Note: All dimensions in mm (Tolerance ±5%)

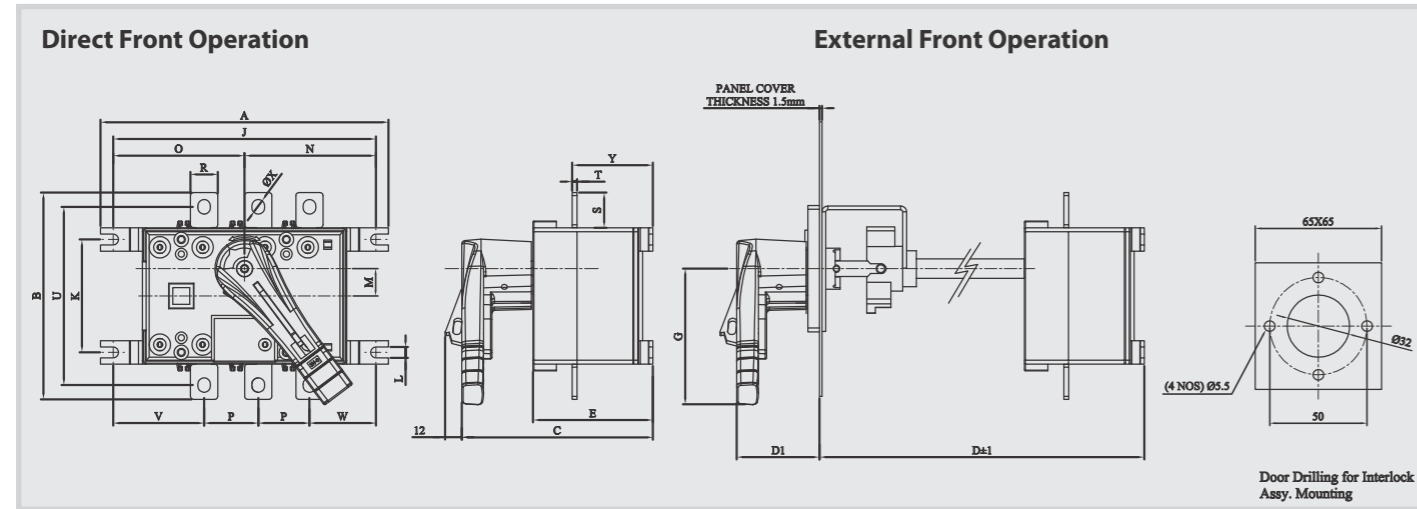


Cubicle Load Break Switch



Dimensional Details 3P:

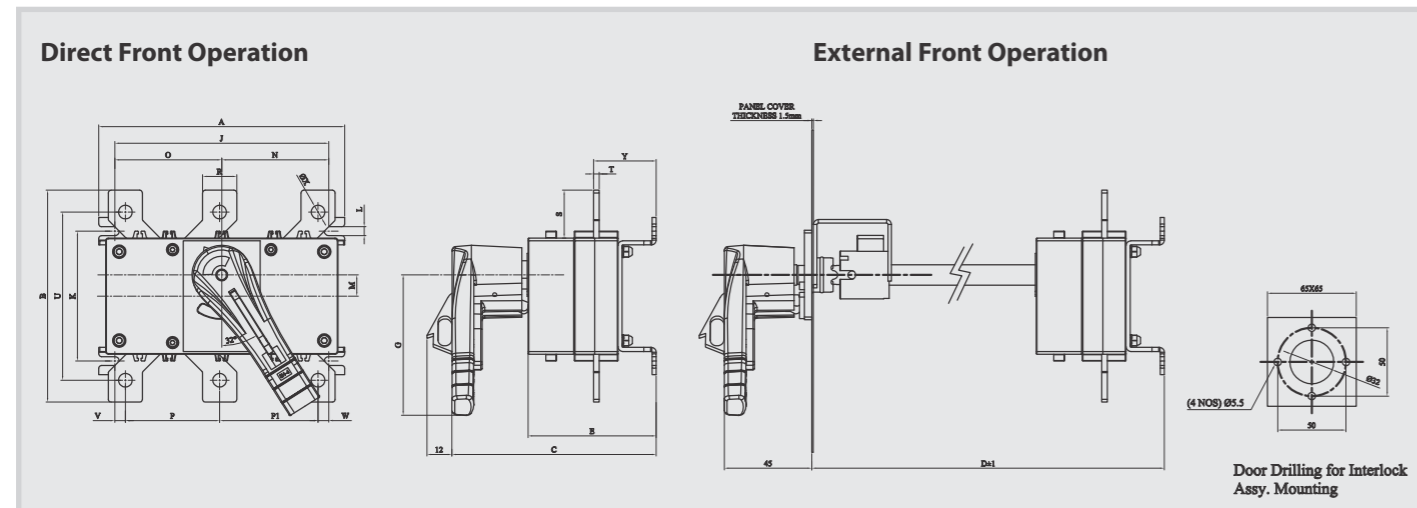
Load Break Switch 63A To 100A



| | Over All Dimension | | | | | | | Fixing of SW. | | | | | Connection Terminal | | | | | | | SW. W.T. | | | | |
|---------|--------------------|-----|-----|-----|-----|----|----|---------------|-----|----|-----|----|---------------------|------|----|----|----|-----|----|----------|----|-----|----|----------|
| | Rating | A | B | C | D | D1 | E | G | J | K | L | M | N | O | P | R | S | T | U | V | W | ØX | Y | Open Ex. |
| Frame-0 | 3x63A | 148 | 106 | 108 | 116 | 45 | 62 | 80 | 135 | 58 | 5.5 | 14 | 67.5 | 67.5 | 27 | 14 | 18 | 2.5 | 91 | 47.5 | 34 | 6.5 | 42 | 0.95 Kg. |
| | 3x80A | 148 | 106 | 108 | 116 | 45 | 62 | 80 | 135 | 58 | 5.5 | 14 | 67.5 | 67.5 | 27 | 14 | 18 | 2.5 | 91 | 47.5 | 34 | 6.5 | 42 | 0.95 Kg. |
| | 3x100A | 148 | 106 | 108 | 116 | 45 | 62 | 80 | 135 | 58 | 5.5 | 14 | 67.5 | 67.5 | 27 | 15 | 18 | 2.5 | 91 | 47.5 | 34 | 6.5 | 42 | 0.95 Kg. |

Note: All dimensions in mm (Tolerance ±5%)

Load Break Switch 125A To 630A



| | Over All Dimension | | | | | | | Fixing of SW. | | | | | Connection Terminal | | | | | | | SW. W.T. | | | | |
|---------|--------------------|-----|-----|-----|-----|-----|-----|---------------|-----|-----|----|-----|---------------------|-----|-----|----|----|-----|-----|----------|------|------|----|----------|
| | Rating | A | B | C | D | E | G | J | K | L | M | N | O | P | P1 | R | S | T | U | V | W | ØX | Y | Open Ex. |
| Frame-1 | 3x125A | 180 | 141 | 150 | 160 | 94 | 116 | 162 | 95 | 6.5 | 15 | 81 | 81 | 69 | 72 | 22 | 28 | 3 | 118 | 15 | 15 | 8.5 | 46 | 1.6 Kg |
| | 3x160A | 180 | 155 | 150 | 160 | 94 | 116 | 162 | 95 | 6.5 | 15 | 81 | 81 | 69 | 72 | 25 | 35 | 4 | 123 | 10.5 | 10.5 | 10 | 46 | 2 Kg |
| | 3x200A | 180 | 155 | 150 | 160 | 94 | 116 | 162 | 95 | 6.5 | 15 | 81 | 81 | 69 | 72 | 25 | 35 | 4 | 123 | 10.5 | 10.5 | 10 | 46 | 2 Kg |
| Frame-2 | 3x250A | 240 | 192 | 160 | 172 | 104 | 150 | 217 | 111 | 6.5 | 20 | 109 | 109 | 93 | 100 | 32 | 46 | 4.5 | 152 | 15 | 9.5 | 12.5 | 48 | 2.9 Kg |
| | 3x320A | 240 | 192 | 160 | 172 | 104 | 150 | 217 | 111 | 6.5 | 20 | 109 | 109 | 93 | 100 | 32 | 46 | 4.5 | 152 | 15 | 9.5 | 12.5 | 48 | 2.9 Kg |
| Frame-3 | 3x400A | 304 | 240 | 180 | 192 | 144 | 150 | 280 | 180 | 9 | 30 | 140 | 140 | 110 | 130 | 40 | 40 | 5 | 206 | 30 | 30 | 11 | 49 | 5.6 Kg |
| | 3x630A | 304 | 270 | 180 | 192 | 144 | 150 | 280 | 180 | 9 | 30 | 140 | 140 | 110 | 130 | 55 | 55 | 5 | 230 | 20 | 20 | 14.5 | 49 | 6.5 Kg |

Note: All dimensions in mm (Tolerance ±5%)

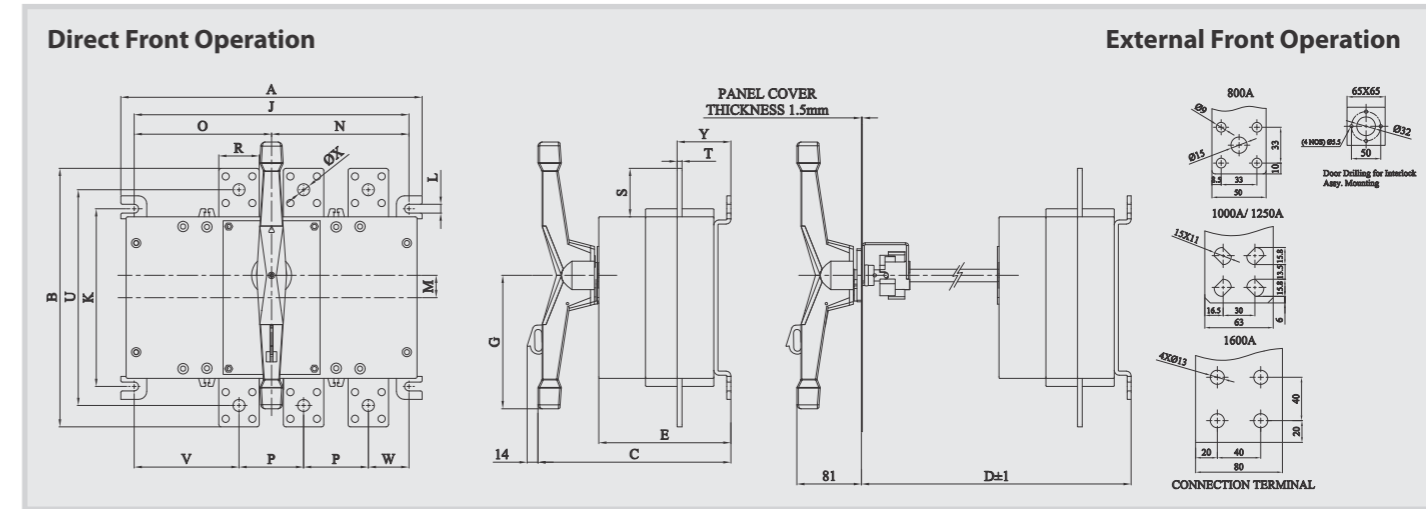


Cubicle Load Break Switch



Dimensional Details 3P:

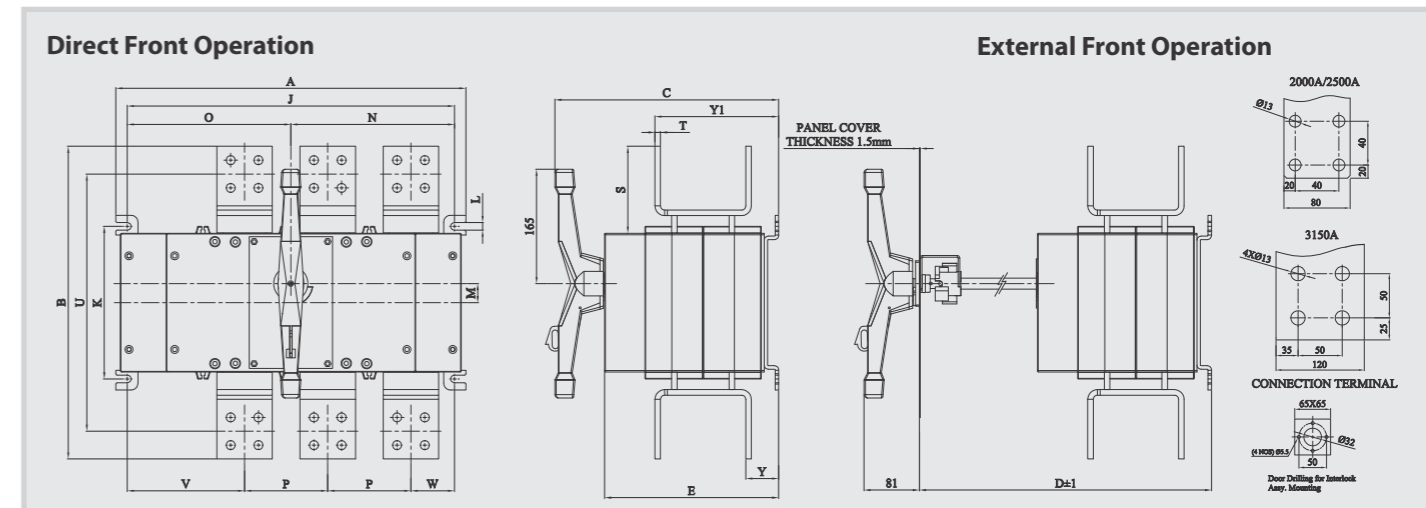
Load Break Switch 800A To 1600A



| | Over All Dimension | | | | | | | Fixing of SW. | | | | | Connection Terminal | | | | | | | SW. W.T. | | | |
|---------|--------------------|-----|-----|-----|-----|-----|-----|---------------|-----|----|----|-----|---------------------|-----|----|----|----|-----|-----|----------|----|----|----------|
| | Rating | A | B | C | D | E | G | J | K | L | M | N | O | P | R | S | T | U | V | W | ØX | Y | Open Ex. |
| Frame-4 | 3x800A | 373 | 320 | 235 | 238 | 164 | 165 | 340 | 220 | 11 | 28 | 170 | 170 | 80 | 50 | 60 | 6 | 267 | 130 | 50 | 15 | 67 | 10.9Kg |
| | 3x1000A | 505 | 330 | 235 | 238 | 164 | 165 | 474 | 220 | 11 | 28 | 237 | 237 | 120 | 63 | 65 | 6 | 273 | 182 | 63 | -- | 65 | 15.5Kg |
| | 3x1250A | 505 | 330 | 235 | 238 | 164 | 165 | 474 | 220 | 11 | 28 | 237 | 237 | 120 | 63 | 65 | 7 | 273 | 182 | 63 | -- | 66 | 15.7Kg |
| Frame-5 | 3x1600A | 505 | 361 | 235 | 238 | 164 | 165 | 474 | 220 | 11 | 28 | 237 | 237 | 120 | 80 | 80 | 15 | 281 | 182 | 63 | -- | 70 | 21.5Kg |

Note: All dimensions in mm (Tolerance ±5%)

Load Break Switch 2000A To 3150A



| | Over All Dimension | | | | | | | Fixing of SW. | | | | | Connection Terminal | | | | | | | SW. W.T. | |
|---------|--------------------|-----|-----|-----|-----|-----|-----|---------------|----|-----|-----|-----|---------------------|----|-----|-----|----|----|-----|----------|--|
| | Rating | A | B | C | D | E | J | K | M | N | O | P | S | T | U | V | W | Y | Y1 | Open Ex. | |
| Frame-5 | 3x2000A | 505 | 450 | 323 | 322 | 251 | 474 | 220 | 28 | 237 | 237 | 120 | 125 | 8 | 371 | 182 | 64 | 72 | 155 | 37.0Kg. | |
| | 3x2500A | 505 | 450 | 323 | 322 | 251 | 474 | 220 | 28 | 237 | 237 | 120 | 125 | 10 | 371 | 182 | 64 | 73 | 156 | 38 Kg. | |
| | 3x3150A | 505 | 500 | 323 | 322 | 251 | 474 | 220 | 28 | 237 | 237 | 120 | 150 | 15 | 401 | 182 | 64 | 75 | 159 | 55.5 Kg. | |

Note: All dimensions in mm (Tolerance ±5%)



Cubicle Load Break Switch



Load Break Switch Enclosed



Function

- On load Making & Breaking current.
- Emergency breaking.
- Safe isolation of downstream loads for maintenance purpose.

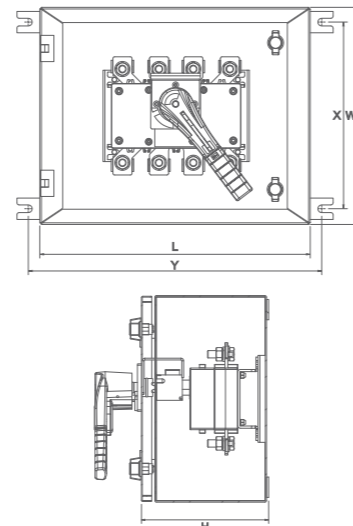
General Characteristics

- Black Handle pad lockable in I-O position.
- CRCA Sheet (Door 1.2 mm & Body 1.6mm)... 63A to 800A.
- CRCA Sheet (Door 1.6mm & Body 2.0mm)... 1000A to 3150A.
- Colour - Light Grey.
- 2 External earthing points on each side.
- Wall mounted with 4 bolts.
- Door locking system allows opening of door only in OFF position.
- Incoming & outgoing easily interchangeable at site.
- Coating of epoxy polyester powder 70 micron.
- Removable plate top & bottom.
- Door with solid hinges.

References and Dimensions

| Rating | L | W | H | X | Y |
|-------------|-----|-----|-----|-----|-----|
| 63A-100A | 180 | 255 | 141 | 215 | 210 |
| 125A-200A | 260 | 365 | 186 | 325 | 290 |
| 250A-320A | 345 | 455 | 196 | 416 | 380 |
| 400A-630A | 395 | 575 | 217 | 515 | 450 |
| 800A | 500 | 670 | 265 | 620 | 550 |
| 1000A-1600A | 630 | 700 | 265 | 635 | 680 |
| 2000A-3150A | 630 | 750 | 365 | 685 | 680 |

Note: All dimensions in mm (Tolerance ±5%)



Cubicle Load Break Switch



Other Product Range

ATS

- Range 125A-630A, 4P, AC 23A, 3 frame sizes.
- Trip Safety as standard feature, CE marked, RoHS Compliant.
- Power monitoring- kWh, kVAh, kVAr, kVArh.
- User selectable Rs232 & RS485 communications.
- Configurable over riding voltage parameters.
- Programable source priority.



ACB

- Range : 630A - 6300A.
- Operational voltage 690V & above.
- Icu 50kA to 120kA at 500Vac.
- Ics = 100% Icu throughout the range.
- Icw : 50kA to 100kA (for 1sec).
- Customer oriented Trip Relay - with advanced measurement functions & communication functions.



Microprocessor MCCB

- Microprocessor range from 250A - 800A, Icu 36kA to 65kA.
- Adjustable overload, short circuit and ground fault with variable time setting and suitable for discrimination.
- Icu 36kA to 65kA, 3P & 4P (4PNuteral fully protected) fixed and adjustable trip settings.



Controlgear

- Widest Range of 3P & 4P Contactors upto 800A.
- Capacitor Duty Contactors upto 62 kvar.
- Highest Electrical Life upto 2.5 million operations.
- Site mounted add on accessories (Auxiliary Contacts, Mechanical Interlock, Surge Suppressor, Timer, Mechanical Latch Units).
- Conformity to latest IEC/IS Standards.
- Type II Co-ordination. CE marked & UL Certified.

