State of the art Manufacturing Facilities


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## Introduction



## Rugged construction, Integrating end user

 convenience with installation flexibilityC\&S Electric offers a wide range of Switch Disconnectors (On Load Break Switches) - 25A to 3150A, suitable for operation upto 750/1000V. Available in 3 Pole as well as 4 Pole, interiors as well as in enclosure, they are suitable for AC23A utilization category and confirm to IEC 60947-3/IS 13947-3.
Available in ratings of 63A and above. These switches are of single pole construction, enabling combination up to 8 poles. Thus, modular yet rugged construction, with all poles including the neutral having $100 \%$ rating \& reliability.
Modular arrangement also eliminates need for matching standard 3 pole switch to specific installation requirement by adding neutral pole in 3 phase 4 wire AC system or looping poles for DC system. Hence these switches are most suited and economical for any applications.

- MainIncomer Switch
- AC or DC Power Distribution System
- Switching \& Isolating Motors
- Switching \& IsolatingCapacitors
- Switching \& Isolating Industrial Control Equipment
- AC or DC Safety Switch

Their mounting flexibility offers numerous \& matchless benefits for use in power distribution boards or for standalone mountings. They are compact enough occupying least panel space yet allowing ease of installation and rendering it safe for maintenance.

For machine tool or distribution systems which are scattered in buildings, switches upto 125A are also available in plastic enclosure, which are corrosion proof and add to the aesthetics of the installation.

Multiple accessories suiting application requirements enhance the flexibility of operation and safety level of installation. These switches also facilitate and match diverse application requirements.

Manufactured in ISO 9001 certified facilities, rugged design combining ease of operation and maintenance, they have stood the test of adverse environments in all types of climate in various countries, including India for more than in 15 years.
These switches are ideal for breaking stalled motor current, switching highly inductive loads, capacitor banks, DC loads etc.
They have been used successfully in almost every industry, becoming the exclusive choice of every discerning user, be it Power Plants, Building segments, Telecommunication field or industries like Steel, Chemical, Cement, Automobile, Machine Tools etc.

C\&S Switch Disconnectors have been tested for their conformity to International as well as Indian Standards at various independent Laboratories like - ASTA for conformity to international Standards IS 13947 - Th IS 13947-3. Thesealso conform to the safety regulations adopted in the European Union and carry the CE marking.
OEMs and panel assemblers can be re-assured that the design is being used and exported to many countries world over.
An ISO 9001 certified manufacturing facilities gives the assurance of quality \& consistency of these switches

Flexible Design

C\&S Switch Disconnector have a modular assembly for operating mechanism and pole. Contact system, placed in separate housing for individual phase poles, are joined together to form a switch with multi -pole formation upto 8 poles.
This arrangement offers flexibility of placing mechanism in between the poles. 63A-800A, switches with side operated mechanism are also offered.

Every pole has $100 \%$ rating and operates with same reliability. As each pole is independent of the other, its maintenance or replacement is easy \& economical in the event of damage.
Switches can hence be ordered as per installation requirement 2 pole for DC; 3 pole for 3 phase, 3 wire system; 4 pole for 3 phase, 4 wire system or 6 pole for Star Delta motors.

## Unique Contact Mechanism

 Efficient SwitchingSwitch Disconnectors of rating 200A and above employ unique Knife Contact Mechanism, which uses magnetic attraction principle in iron circuit on the moving contacts. As curren ensuring- autornall capacity upto 690 V and low temperature rise leading to long and low temperature rise leading to lon electrical life.

The special form offixed contacts results in separate arcing and current carrying surfaces. It again ensures that current carrying surface remains unaffected by arcing, maintaining identical contact pressure and enhancing electrical life. Special shape o fixed contacts also help blow out the Arc into Arc-Chute wher it is swiftly extinguished under controlled conditions, safely.
During each switching, the knife contacts cleans itself. This makes them perfectly suited for Indian conditions in general and for high pollution and corrosive conditions as in Chemical Plants, Cement Plants, Steel Plants, etc., including applications like Motors and capacitor switching.


The handle in the C\&S switch disconnectors has a telescopic shaft. The handle \& shaft assembly adjusts to wide depth of the panel so there is no need to place a space below the switch while panelso there is no need to place a spacebelow the switch while
aligning it with enclosure door. It permits installation of the switch in installations of varying depths, without any modification of the enclosure.

Four hole handle fixing on the door permits last minute rotation of the switch inside the panel by 90 degrees on either side as per convenience, again without any modification to the door.
These time saving features increase the ease and flexibility of installation and also reduce installation cost.

## Accessories

## Flexibility to

suit Application
Multiple accessories increase suitability for diverse application, enhance operational flexibility and improve installation safety.
Handle mounting kit allows complete Switch to be mounted inside enclosure door so that it can be operated only after opening the door. Door mounting kit lets fixing complete switch on to the door, doing away with need for fixing switch on base plate \& aligning with door.
Auxiliary contacts permit electrical interlocking, remote indication and Alarm. Key Lock and Castle Lock help interlocking with different category of products.
Extended terminals allow for liberal termination or termination of large number of cables with higher clearances. Shrouds encase the terminals so that no falling hardware may get embedded between the terminals resulting in flashovers.

## Switch Construction

Safety Built-in
C\&S pioneered the concept of positive isolation in case of welding of contacts. In the event of extremely high current leading to welding of contacts, the handle will not turn beyond $45^{\circ}$ from the ON position, clearly indicates that the supply is ON and contacts get welded.
Convenience of clear contacts visibility, permits contact position inspection, without removing the switch from installation, thus enhancing reliability and saving valuable down time.
Self extinguishing fibre glass re-inforced insulating body of poles has very high tracking index. Large gap between fixed and moving contacts in OFF position, make them suitable for isolation function.
Door interlocking prevents opening in the ON position, guarding the operator against an accidental mishap. As a standard upto 3 padlocks are provided in the OFF position to prevent closing the padlocks are provided in the OFF posity can also be provided in the ON position. Using a suitable gasket alongwith handle enhances ingress protectionlevel to IP 54.

## Technical Data

| Common Characteristics |  |  |  |
| :--- | :---: | :---: | :---: |
| Conformity to Standards | - | IS/IEC 60947-3 |  |
| Rated Operational Voltage (Ue) | V | 415 |  |
| Rated Operational Frequency | - | $50 / 60$ |  |
| Suitability for Isolation | - | YES |  |
| Pollution Degree as per IEC / IS | ${ }^{\circ} \mathrm{C}$ | 3 |  |
| Ambient / Cubicle Service Temp. | - | 40 |  |
| IP Level after mounting | - | $\mathbb{P} 54$ |  |
| Number of Poles |  |  | $3 / 4 P^{*}$ |

(4th Pole always $100 \%$ rated in 4 Pole switches)
$\%$ Other Pole configuration available on request


Replace $\cdot \cdot$ with 3 in case of 3 pole or with 4 in case of 4 pole

2) IEC-947-3, utilization category B, infrequent operation

## Technical Data

| Parameters |  |  |  | D Type |  | $\begin{gathered} \text { K Type } \\ \hline 63 \\ \hline \end{gathered}$ | $\begin{gathered} \text { D Type } \\ \hline 125 \end{gathered}$ | DM Type |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 25 | 40 |  |  | 125 | 160 |
| Rated breaking capacity in category $\mathrm{AC}-23$ |  | upto 415V | A | 200 | 320 | 504 | 1000 | 1000 | 1280 |
| Rated breaking capacity/poles in series in category DC-23 |  | 440 V | A | 160 | 200 | 320 | 504 | 560 | 800 |
|  |  | 500 V | A | 160 | 200 | 256 | 504 | 560 | 800 |
|  |  | 690 V | A | 128 | 200 | 256 | 400 | 400 | 504 |
|  |  | upto 48 V | A | 200/3 | 200/3 | 250/3 | 300/3 | 500/2 | 640/2 |
|  |  | 110 V | A |  |  | 150/3 | 300/3 | 500/3 | 640/3 |
|  |  | 220 V | A |  |  | 100/3 | 200/3 | 500/3 | 640/3 |
| Rated conditional Short Circuit current r.m.s |  | 690V/500V | kA | - | - | - | - | - | - |
| Rated conditional short circ uit current r.m.s and corresponding cut off current of the fuse in single phase test according to IEC 269 | Cutoffrack up fuse Rating | 50KA, 415V | kA | $6 / 25$ | $6 / 40$ | 8/63 | 13/125 | 13/125 | 18/60 |
|  |  | 50KA,500V | kA | 6/25 | 6/40 | 8/63 | 13/125 | 13/125 | 18/160 |
|  |  | 50KA, 690 V | kA | 4/25 | 4/40 | 6/63 | 10/125 | 10/125 | 10/160 |
|  |  | 80KA, 500V | kA | 6.5/25 | 6.540 | 10/63 | 15/125 | 15/125 | 20,160 |
|  |  | 690 V 1 sec | kA | 0.5 | 0.5 | 1 | 1.5 | 2.5 | 5 |
| Rated short circuit making capacity | Peak value lom | 690/500 V | kA | 0.7 | 0.7 | 1.4 | 2.7 | 3.6 | 7 |
| Rated capacitor power | the capacitor rating are limited by the fuse link | 400-415V | kVAr |  |  |  | 50 | 50 | 60 |
| Power loss/ pole | at rated operational current |  | w | 0.6 | 1.6 | 2.8 | 6.3 | 6.3 | 9 |
| Mechanical endurance | Divided by two for operational cycle |  | Oprs. | 20000 | 20000 | 20000 | 20000 | 2000 | 2000 |
| Electrical Endurance | At 0.65pp |  | Oprs. | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 |
| Weight without accessories | with handle and shatt | 3 pole | ${ }^{\mathrm{kg}}$ | 0.2 | 0.2 | 0.3 | 0.4 | 1.6 | 1.8 |
|  |  | 4 pole | kg | 0.25 | 0.25 | 0.4 | 0.5 | 2 | 2.25 |
| Teminal bolt size | Metric thread diameter x length |  | mm |  |  |  |  | M8x25 | M8x25 |
| Teminal lightening toraue | counter torque required |  | Nm | 0.8 | 0.8 | 2 | 6 | 8 | 8 |
| Operating Torque | 3 -pole switch disconnector |  | Nm | 1 | 1 | 1.2 | 2 | 2.5 | 2.5 |

Gatalogue Reference


## Technical Data

| Common Characteristics |  |  |
| :---: | :---: | :---: |
| Conformity to Standards |  | $\begin{gathered} \text { IEC 60947-3 / } \\ \text { IS 13947-3 } \end{gathered}$ |
| Rated Operational Voltage (Ue) | V | 415 |
| Rated Operational Frequency | Hz | 50/60 |
| Suitability for Isolation | - | YES |
| Pollution Degree as per IEC / IS | - | 3 |
| Ambient / Cubicle Service Temp. | ${ }^{\circ} \mathrm{C}$ | 40 |
| IP Level after mounting | - | IP 54 |
| Number of Poles <br> (4th Pole always $100 \%$ rated in 4 Pole switches) <br> *Other Pole configuration available on request | - | 3P / 4P* |



Replace $\cdot \bullet$ with 3 in case of 3 pole or with 4 in case of 4 pole


## Technical Data

| Parameters |  |  |  | DM Type |  |  |  | K Type |  |  | P/K Type |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 200 | 250 | 315 | 400 | 400 | 630 | 800 | 1000 | 1250 | 1600 | 2500 | 3150 |
| Rated operational current/poles in series DC-23 A |  | 48 V | A | 200/2 | 250/2 | 315/2 | 400/2 | 400/1 | 630/1 | 800/1 | - | - | - | - | - |
|  |  | 110 V | A | 200/2 | 250/2 | 315/2 | 400/2 | 400/2 | 630/2 | 800/2- | - | - | - | - |  |
|  |  | 220 V | A | 200/2 | 250/2 | 315/2 | 400/2 | 400/2 | 630/2 | 800/2 | - | - | - | - | - |
|  |  | 440 V | A | 200/3 | 250/3 | 315/3 | 400/3 | 400/3 | 400/3 | 400/3 | - | - | - | - | - |
|  |  | 750 V | A | 200/4 | 250/4 | 315/4 | - | - | - | - | - | - | - | - | - |
| Rated operational power AC-23 ${ }^{2}$ The KW-ratings are accurate for three-phase 1500 R.P.M standard asynchronous motors. |  | $220-240 \mathrm{~V}$ | kW | 55 | 75 | 90 | 132 | 132 | 180 | 200 | 250 | 250 | 250 | 250 | 250 |
|  |  | 400-415 | kW | 110 | 132 | 160 | 200 | 200 | 315 | 355 | 400 | 400 | 400 | 400 | 400 |
|  |  | 440 V | kW | 110 | 132 | 160 | 315 | 315 | 355 | 355 | 400 | 400 | 400 | 400 | 400 |
|  |  | 500 V | kW | 132 | 160 | 200 | 315 | 315 | 355 | 355 | 450 | 450 | 450 | 450 | 450 |
|  |  | 690 V | kW | 170 | 200 | 250 | 315 | 315 | 355 | 355 | - | - | - | - | - |
| Rated breaking capacity in category AC -23 |  | upto 415V | A | 1600 | 2000 | 2520 | 3200 | 4000 | 5040 | 5760 | 8000 | 8000 | 8000 | 8000 | 8000 |
|  |  | 440 V | A | 1600 | 2000 | 2520 | 3200 | 4000 | 4720 | 5360 | - | - | - | - | - |
|  |  | 500 V | A | 1600 | 2000 | 2520 | 3200 | 4000 | 4640 | 4800 | - | - | - | - | - |
|  |  | 690 V | A | 1600 | 2000 | 2520 | 2800 | 2800 | 2800 | 2800 | - | - | - | - | - |
| Rated breaking capacity/poles in series in category DC -23 |  | upto 48 V | A | 800/2 | 1000/2 | 1260/2 | - | - | - | - | - | - | - | - | - |
|  |  | 110 V | A | 800/2 | 1000/2 | 1260/2 | - | - | - | - | - | - | - | - | - |
|  |  | 220 V | A | 800/2 | 1000/2 | 1260/2 | - | - | - | - | - | - | - | - | - |
|  |  | 440 V | A | 800/3 | 1000/3 | 1260/3 | - | - | - | - | - | - | - | - | - |
|  |  | 750 V | A | 800/4 | 1000/4 | 1260/4 | - | - | - | - | - | - | - | - | - |
| Rated conditional Short Circuit current r.m.s |  | 690V/500V | kA | - | - | - | - | - | - | - | 50 | 50 | 50 | 50/63 | 50/63 |
| Rated conditional short circuit current r.m.s and corresponding cut off current of the fuse in single phase test according to IEC 269 | Cut Off/Back up fuse Rating | 50KA, 415 V | kA | $25 \quad 200$ | $27 \quad 250$ | $30 \quad 315$ | $36 \quad 400$ | 36400 | 54630 | 63800 | 105 | 105 | 105 | 140 | 140 |
|  |  | 50KA,500V | kA | $25 \quad 200$ | $27 \quad 250$ | $30 \quad 315$ | 36400 | 36400 | 54630 | 63800 | 105 | 105 | 105 | 140 | 140 |
|  |  | 50KA, 690V | kA | $25 \quad 200$ | $27 \quad 250$ | $30 \quad 315$ | 36400 | 36400 | 54630 | 63800 | 105 | 105 | 105 | 105 | 105 |
|  |  | 80KA, 500V | kA | $28 \quad 200$ | $30 \quad 250$ | $32 \quad 315$ | $42 \quad 400$ | 42400 | 60630 | 70800 | - | - | - | - | - |
| Rated short time withstand current | R.M.S. -Value Icw | 690 V 0.2 sec | kA | 17.5 | 17.5 | 17.5 | 17.5 |  | 38 | 38 | - | - | - | - | - |
|  |  | 690 V 0.25 sec | kA | - | - | - | - | 31 | - | - | 56 | 56 | 56 | - | - |
|  |  | 690 V 1 sec | kA | 8 | 8 | 8 | 12 | 17 | 17 | 17 | 50 | 50 | 50 | - | - |
| Rated short circuit making capacity | Peak value lcm | 690/500 V | kA | 35 | 35 | 35 | 35 | 65 | 80 | 80 | 105 | 105 | 105 | 105/140 | 105/140 |
| Rated capacitor power | the capacitor rating are limited by the fuse link | $400 \sim 415 \mathrm{~V}$ | kVAr | 90 | 110 | 140 | 180 | 250 | 300 | 330 | - | - | - | - | - |
| Power loss/ pole | at rated operational current |  | w | 3.5 | 5.5 | 8.5 | 12 | 13 | 22 | 40 | 27 | 40 | 67 | 90 | 140 |
| Mechanical endurance | Divided by two for operational cycle |  | Oprs. | 16000 | 16000 | 16000 | 10000 | 10000 | 10000 | 10000 | 6000 | 6000 | 6000 | 1200 | 1200 |
| Electrical Endurance | At 0.65pf |  | Oprs. | 1000 | 1000 | 1000 | 1000 | 1000 | 500 | 500 | 500 | 500 | 500 | 100 | 100 |
| Weight without accessories | with handle and shaft | 3 pole | kg | 3 | 3 | 3 | 3.3 | 5.2 | 6.2 | 6.2 | 16.3 | 16.3 | 17.5 | 37 | 37 |
|  |  | 4 pole | kg | 3.7 | 3.7 | 3.7 | 4 | 6.4 | 7.6 | 7.6 | 20.5 | 20.5 | 22.5 | 47 | 47 |
| Terminal bolt size | Metric thread diameter x length |  | mm | M8×25 | M10x30 | M10x30 | M10x40 | M10x40 | M12×40 | M12x40 | M12x60 | M12x60 | M12x60 | M12x60 | M12x60 |
| Terminal tightening torque | counter torque required |  | Nm | 30.44 | 30.44 | 30.44 | 30.44 | 30.44 | 50.75 | 50..75 | 50..75 | 50.75 | 50.75 | 50..75 | 50..75 |
| Operating Torque | 3 -pole switch disconnector |  | Nm | 8.2 | 8.2 | 8.2 | 8.2 | 17 | 21 | 21 | 21 | 21 | 21 | 50 | 50 |


| Ratings | 25-40 Type D | 63 Type K/D | 100-125 Type D |
| :---: | :---: | :---: | :---: |
| Handle - Black ${ }^{\text {7 }}$ | cssDZX111 | cssDzX111 | CSSDZX104 |
| Handle Shaft | CSP5X70 | CSP5X70 | CSP5X70 |
| Handle Mounting Kit | - | - | - |
| Door Mounting Kit, 3P / 4P | DMK1/1A | DMK1/3 | DMK2/3 |
| Changover Mechanism | CSSDZW 6 | CSSDZW 6/1 | CSSDZW 6/1 |
| Auxiliary Contact - 1NO + 1NC, 3P-4P | CSSDZX 49/87 | CSSDZX 79/55 | CSSDZX 52/55 |
| Auxiliary Contact - $2 \mathrm{NO}+2 \mathrm{NC}, 3 \mathrm{P}-4 \mathrm{P}$ | CSSDZX 50/88 | CSSDZX 80/56 | CSSDZX 53/56 |
| Terminal Shrouds | - | - | SF701 |
| Extended Terminals, 3P/4P | - | - | ET325/ET326 |
| Key Interlock | CSSDZW-16 | CSSDZW-16 | CSSDZW-16 |
| Castle Lock | CSSDZW-15 | CSSDZW-15 | CSSDZW-15 |
| Neutral Link | - | - | - |


| 100-160 Type DM | 200-400 Type DM | 400-800 Type D/K | 1000-1600 Type P | 2500-3150 Type P |
| :---: | :---: | :---: | :---: | :---: |
| CSWH 80 S6 | CSWH 80 S8 | CSWH 145 S12 | CSWH 220 S12 | CSWH 220 S12/CSDA 86) |
| CSP6X165 | CSP8X240 | CSP12X255 | CSP12X255 | CSP12X325 |
| - | HMK-2 | HMK-1-1 | HMK-3-1 | - |
| - | - | - | - | - |
| CSSDZW 6/1 | CSSDZW 6/1 | CSSDZW 11 | CSSDZW 12 | CSSDZW 12 |
| CSSDZX 1 | CSSDZX 37 | CSSDZX 33 | CSSDZX 35 | CSSDZX 35 |
| CSSDZX 16 | CSSDZX 38 | CSSDZX 34 | CsSDZX 36 | CSSDZX 36 |
| SF702 | SF703 | SF703(200-400)/SF7044630-800) | - | - |
| ET327/ET328 | ET329/ET330 | ET329/ET330(upto 400A) | - | - |
| CSSDZW-16 | CSSDZW-5 | CSSDZW-5 | CSSDZW-5 | CSSDZW-5 |
| CSSDZW-15 | CSSDZW-4 | CSSDZW-4 | CSSDZW-4 | CSSDZW-4 |
| - | - | CSSDFZX85 | CSSDZX159 | CSSDZX159(2Nos.) |

## Accessories \& Drawings

## Mounting Instruction for Accessories

## Auxiliary Contact

For CSSD25-125A

- Unscrew the two grub screws and remove the bush from the switch.
- Fit the auxiliary bracket onto the switch and place the locking bush onit.
- Fit the cam and screw it with the locking bush.
- Fit auxiliary contact at the corner and screw it diagonally.
- Fit the two NO/NC auxiliary at the other corner and screw it properly, if required.


## For CSSD100-160A Compact (ZX1, ZX16)

- Place the auxiliary and name plate at rear end (opposite to mechanism) by ensuring name plate between auxiliary and switch and screw them properly.
- Fit the cam on the main shaft and screw it on the flat surface of the shaft.


## For CSSD200-400A Compact (ZX 37, ZX38)

- Fit the auxiliary contact on the top of mechanism and screwit diagonally at the providedholes properly.
- Fit the two NO/NC auxiliary at the top of the auxiliary and screw it diagonally, if required.


## For CSSD 400-800A (ZX33, ZX34)

- Fit the auxiliary contact on the top of mechanism and screwit diagonally on the provided thread
- Fit the two NO/NC auxiliary at the top of the auxiliary and screw it diagonally, if required.


## For CSSD1000-3150A(ZX35, ZX36)

- Fit the cam on the tubular shaft with the square bush
- Fit the auxiliary contact along with the bracket (Z type) by screwing diagonally, if provided separately.
- Place and screw the auxiliary contact onto the mechanism by matching ofbracket hole and tubular shaft.


## Auxiliary Contacts ratings

- Thermal Rating 10A
- AC15@415V-4A
- DC13@220V-1A


Auxiliary Contacts - 200A \& above


Auxiliary Contacts - 100A to 160A


## Castle Lock



| Catalogue No. | Type of Switch |
| :--- | :--- |
| CSSDZW15 | CSSD 25~160A |
| CSSDZW4 | CSSD 200 3150 A |

Panel Drilling Plan


## Castle Lock

- Make a hole in panel door for fitment of castle lockas per given drawing.
- Fit the castle lock onto the panel door from front.
- Fit the lever onto the lock shaft in unlock position from back and tighten the lever by providing Uclamp and screw.
- Fit the Square pipe assembly with the switch main shaft and adjust the position so that the lever can lock it from behind of this assembly and tightenthe screw.



## Key Interlock

- Make a hole inthe panel door for castle lock fitment as per given drawing.
- Fit the key lock ontothe panel door from front.
- Fit the leveronto the lock shaft and circlip it in unlock position.
- Fit the square pipe assembly with the switch main shaft and adjust the position so that the lever can lock it in grove provided and tighten the screw.


## Door Mounting Kit (25-125A)

- Fit the switch at the rear using din rail mounting channel
- Mount the channel using hole provided for screwing on the door


## Handle mounting Kit (200A-1800A)

- Unscrew the bolt (provided for earthing on mechanism) and Philips head screw (given below the earth bolt) as shown in model.
- Fit the handle mounting bracket and tighten the bolt and screw.
- Fit the handle assembly on given profile of the mounting kit.

Key Interlock



| Catalogue No. | Type of Switch | 'A' |
| :--- | :--- | :---: |
| CSSDZW16 | CSSD 25 160 A | $60.7 \pm 0.3$ |
| CSSDZW5 | CSSD 200~3150A | $66.0 \pm 0.3$ |

## Dimensional Details


illustrations not to scale


100A-160A (DM)


$$
\begin{aligned}
& \text { Dimensions Front Operated } \\
& \text { Rating }
\end{aligned}
$$

Dimensions Side Operated


200A - 400A (DM)


ILLUSTRATIONS NOT TO SCALE

## Dimensional Details

400A - 800A


1000A-1600A


2000A-3150A

illustrations Not to scale.



Mounting Details, 100A-315A (DM) \& 200A-3150A


