



DEVCO[®]

Reaching beyond limit[®]

DEVCO Engineering & Technologies (P) Ltd.

(An ISO 9001-2000 Certified Co. & CPRI Approved Co.)

Manufacturers of

- Power Control Centers • Intelligent Motor Control Centers • Distribution Boards • Feeder Pillars
- Soft Starter Panels • Drives Panels • PLC Panels • DG Synchronizing • AMF Panels
- Control Desks • Control & Relay Panels • Automatic Power Factor Control Panels
- Bus-Ducts & Rising Mains • Raceways

DEVCO®

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Feeder Pillars

Customer Care (Toll Free No):- +91-1800-891-2162

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About Us

DEVCO established in 1998, it's a leading manufacture of Electrical System & Electrical Panels. The Company is headed by the dynamic and self motivated, well experienced & Qualified directors who have already bought up and established a considerable reputation of Devco in designing manufacturing , sales & Services of Electrical System & Electrical panel.

Quality System

DEVCO has an excellent quality assurance system. Committed by every team member & documented as per ISO 9001–2000. It has got an excellent quality policy as follows:-

- All Raw Materials including switchgear is subjected to testing.
- Stage Inspection is carried in four stages so that even small problems are eliminated & not carried further.
- Final Testing is carried out thoroughly with all calibrated instruments/gauges.
- The testing is done as per harmonized National & International standards including IEC429, IS8623.

Type Testing

Panel designing has been verified by the following "CPRI" Tests as per IS-8623, IEC439, EN60439

- **Short Circuit Test** (50 KA for 1 sec).
- **Temperature rise Test** +35 °C over ambient.
- **Ingress Protection-** IP -55.

In-House Testing

- Insulation Test with Megger (1000V).
- High Voltage Test at 2.5 KV for 1sec (50HZ)
- Powder Coating Test, Salt Spray Test & Scratch Test
- Conductivity Test.
- Primary injection Upto 4000 A*
- Secondary injection.
- Functional / Operational Tests.

Fabrication

Enclosures are fabricated with 14/16 SWG smooth & wrinkle free, stress removed TATA CRCA sheets by usage of extensive tooling in following in house machineries:

- BREAK PRESS
- SHEARING MACHINE
- POWER PRESS
- MIG WELDING M/C

Salient Features:

- Enclosures are fabricated in modular construction.
- Each bay is identical and can be assembled or dismantled easily in shorter time which is not feasible in total welded bay.
- Components are also fabricated in folded construction, results in minimum welding to avoid deformation of fabricated components besides stocking of critical fabricated components to expedite delivery of panels.
- The Components are totally interchangeable and offer instant replacement if required.

- Electroplated slotted supports are provided in cable Alleys for binding of cables.
- Concealed hinges with neoprene gasket are used in each door.
- All door cutouts are made in fabrication stage only resulting long life of powder coatings.
- Air Agitator System – Does not allow sediments to deposit at the bottom.
- Online monitoring of critical parameters for chemical.
- Seven Tanks –A chemically pre-treatment system proves to be one of the best treatments. It provides a continuous layer of phosphate, which is very essential to achieve perfect and durable powder coating layer.

Powder Coating

After perfect chemical pretreatment as per IS-6005, the fabricated components are painted in a converted powder coating plant with high a long life to panel and good aesthetics.

- The standard finish as follows :

Enclosure	(RAL 7032)
Mounting Plate	(RAL 2000)
Base Frame	(RAL 7022)

Wiring

- DEVCO has developed a fully equipped wiring shop with highly skilled wiremen.
- Safe wiring is laid down by using plastic grommet and flexible conduits.
- Excellent dressing with proper printed ferrule.
- Wiring is bunched neatly with the PVC duct, also loose wiring in plastic spiral.

BUS Bar

Copper /Aluminum (EC91e) bus bar of electrolytic grade is procured from Hindalco make and cross sectional area is chosen on basis of bus bar calculation considering derating factors.

1. Bus bars are braced rigidly to withstand short circuit fault with SMC supports and proper bracing housed in electroplated "U" shaped channels.
2. All Bus bars are insulated with PVC heat shrinkable sleeves of relevant color.
3. Earth bus bar size is determined with earth fault calculation and run throughout the panel and connected with every door/ clamp of metallic switch gear body mounted.

Assembling

- DEVCO has one of the finest assembling areas in NCR, equipped with latest tooling.
- Plant layout is prepared in genuinely natural way of flow which helps us in speedy assembling.

DEVCO PRODUCT RANGE

DEVCO-1000 Series

DEVCO offers DEVCO-1000 Series of PCC, AMF, APFC, DG Synchronization Panels, manufactured by employing engineering practices with consideration of safety & reliability main aspects of this series. It has got numerous added features which were incorporated with the help of in house product analysis and continuous field feedback. DEVCO-1000 series are manufactured as per latest National & International Standards like ISO9001-2000, IEC439 and IS8623 etc.

Technical Specification:-

Rated Insulator Voltage	660Volt
Rated Operator Voltage	415V \pm 10%
Withstand Voltage	8-KV
Rated Current	800A/1000A/1250A 1600A/2500A/3200A 4000A/5000A/ 6300A
Fault level	50 KA for 1 sec.
Ambient Temp	50°C
Temp rise	35°C over ambient
Bus bar support	SMC/FRP
Degree of protection	IP-55
Dimension (mm)	H = 1900/2100/2400mm D = 1000/1200/1400/1600mm W = 600, 800, 1100mm (Multiple)

DEVCO-3000 Series

DEVCO offers DEVCO 3000 Series of MCC,s Soft Starter Panels, Drives Panels, PLC Panels, Control Desks, Control & Relay Panels, an excellent combination of innovative accessories, perfect workmanship and the highest available standard components, resulting in superior aesthetic look, trouble free maintenance. Easy motor control, which are made in friendly accordance with National & International Standards like an ISO9001-2000, IEC439 and IS8623 etc.

Construction Type:-

DEVCO-3001-front open, rear dead
DEVCO-3300-front open, rear access
DEVCO-3600-front open; rear open

Technical Specification:-

Rated Insulator Voltage	660 Volt
Rated Operator Voltage	415 \pm 10%
Impulse withstand Voltage	8-Kv
Rated Current	100A/250A/400A/630A, 800A, 1000A, 1250A/1600A, 2000A, 2500A, 3200A/4000A
Fault level	50KA for 1 sec.
Ambient Temp	50° C
Temp. Rise	35° C over ambient
Bus bar support	SMC/FRP
Degree of Protection	IP-55
Dimension (mm)	H = 1800/1900/2100/2300mm D = 300 /400/500/600mm(Multiple) W = 300/400/500/600mm(Multiple)

DEVCO-5000 Series

DEVCO offers DEVCO-5000 Series DB, PDB, SDB, LDB, and Feeder Pillars Capacitors Manufactured by employing engineering practices with consideration of safety & reliability main aspects of this series.

It has got numerous added features which were incorporated with the help of in house product analysis and continuous field feedback. DET-5000 Series PDB, SDB, LDB, Feeder Pillars are manufactured as per latest National & International Standards like ISO9001-2000, IEC439, IS8623 etc.

Technical Specification:-

Rated Insulator Voltage	660Volt
Rated Operator Voltage	415V \pm 10%
Withstand Voltage	8-KV
Rated Current	100A/125A/200A250A/320A /400A/500A/500A/630A
Fault level	25 KA for 1 sec. 35 KA for 1 sec.
Ambient Temp	50°C
Temp rise	35°C over ambient
Bus bar support	SMC/FRP
Degree of Protection	IP-55
Dimension (mm)	H = 225/300/450mm(Multiples) D = 125/225/300mm(Multiples) W = 250/300/450mm(Multiples)

DEVCO-7000 Series

DEVCO offers DEVCO 7000 Series of Bus-Ducts & Rising Mains an excellent combination of innovative accessories, perfect workmanship and the highest available standard components, resulting in superior aesthetic look, trouble free maintenance. Which are made in friendly accordance with National & International Standards like an ISO9001-2000, IEC439 and IS8623 etc.

Construction Type:-

DEVCO-7001- Segregated Bus System.
DEVCO-7300- Vertical Bus Systems.
DEVCO-7600- Horizontal Bus Systems.

Technical Specification:-

Rated Insulator Voltage	660 Volt
Rated Operator Voltage	415V \pm 10%
Impulse withstand Voltage	8-Kv
Rated Current	1250A, 1600A, 2000A, 2500A, 3200A/4000A 5000A/6300A/8000A
Fault level	50KA for 1 sec.
Ambient Temp	50° C
Temp. Rise	35°C over ambient
Bus bar support	SMC/FRP
Degree of Protection	IP-55
Dimension (mm)	H= 225/300/450mm(Multiples) L= 1800-2500mm(Multiples) W= 250/300/450mm(Multiples)

SALIENT FEATURES

DEVCO-1000, DEVCO-3000, DEVCO-5000, DEVCO-7000 Series

1. A perfect compartmentalized construction is provided.
2. Spacious arrangement is made for cable termination ensuring comfortable operation & easy maintenance.
3. Metallic/transparent barriers are provided, within the cubicle for prevention of human contact with live part accidentally.
4. Provision of double door at rear of the panel.
5. Panels are very sleek and aesthetics is excellent.
6. Each panel is provided with plastic drawing pocket to keep relevant documents.
7. Bolted modular construction facilities modification re, retrofitting extensibility in minimum possible time.
8. Specially designed concealed profile of neoprene is used for gasketing to ensure dust protection.
9. Use of quarter turnkey flush type steel door locks for convenient operation.
10. High tensile bolt & spring washers for bus bar connection.
11. Tool box is provided (as per optional).
12. Perforated sheet shroud to main horizontal bus bars chamber.
13. Phase Sequence Meter is provided. (as per optional)
14. Every bay is provided space heater, thermostat & backup protection for anti condensation. (As per optional)
15. Two nos. of power socket including MCB/fuses are provided to avoid undesired unsafe wire tapping from bus bar (as per optional).

16. Bus ducts manufactured in small scale length say 1.8 to 2.5 meter & are then joined together at site to fit into layout.
17. In case of rising mains we are providing fire proof barriers, wherever the rising mains across through a floor.
18. Flexible expansions joints of Aluminum & Copper are essential after every three or four standard length.

STANDARDS APPLICABLE

DEVCO-1000, DEVCO-3000, DEVCO-5000, DEVCO-7000 Series

- IS: 13947 L.V. Switchgear Parts 1, 2, 3, 4, 5.
- IS: 8623 Factory built assemblies of switchgear & control gear.
- IS: 13703 Low voltages fuses
- IS: 2705 Current transformer
- IS: 3158 Voltage transformer
- IS: 3231 Electrical relays for power system Protection
- IS: 3842 Application guide from electrical relays for AC system (part- 1&2)
- IS: 13010 AC electricity meters
- IS: 5-1978 Color for ready mixed paints & Enamels
- IS: 6005 Code of practice for phosphating of Iron & steel
- IS: 613 Copper rods & bars for electrical purpose
- IS: 513 Specifications for cold rolled carbon steel sheet
- IS: 5082 wrought aluminium
- IS: 375 Marketing and arrangement for switchgear bus bar
- IS: 694 PVC insulated cables for voltages up to 1000V.

“OUR CLIENTS”



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