

21 YEARS OF DESIRE TO EXTEND HORIZONS

▶ The Prewired Concept

▶ VELMCB Innovation

▶ MCB-What's new

■ Adhunik Switchgears has completed twenty one years in the electric products manufacturing. It seems like yesterday when we began our foray into the then still growing field. Companies took the traditional route to become viable and continue. We thought differently. Research and development was a word which belonged in the boardrooms of multinational companies or manufacturing giants. At Adhunik Switchgears we did not stick to the old world order. We decided to create a new standard and follow it religiously. That standard was to think from the perspective of someone who had a problem on his hand and who was hell bent on finding a solution for it. That is how we tried and came out with our breakthrough product - the Pre-wired DB. The industry responded and customers were the ultimate winners. The feat was followed with the introduction of the VCCB and then VELMCB.

Today with expanded capacity and up-gradation of our manufacturing facilities we are manufacturing more of more products. Our range has grown and it encompasses products which industries like hospitality among others have big use. But even today restraint of time has not been able to desist us from our zeal for research based innovation for mass benefit

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Safety at the core



■ MCB

► The Prewired Concept

The circuit breaker must detect a fault condition; in low-voltage circuit breakers this is usually done within the breaker enclosure.

► VELMCB Innovation

Once a fault is detected, contacts within the circuit breaker must open to interrupt the circuit; some mechanically-stored energy (using something such as springs or compressed air) contained within the breaker is used to separate the contacts, although some of the energy required may be obtained from the fault current itself. Small circuit breakers may be manually operated; larger units have solenoids to trip the mechanism, and electric motors to restore energy to the springs.

► MCB-What's new

At Adhunik basics of the all the devices are very strong and unique. Body is made of "Polybutaline terapythalate polyster polymer chip" which has highly desirable thermal & electrical properties such as fire get extinguished when it moves from one molecule to another in such kind of material. "Action is look like of Fire proof materials" Making Breaking Fixed and Moving Contact- Moving- Brass plate inlayed by Pure Silver Making room for electrons to flow in a large area with minimum resilience. Fixed contact specially designed to make sure that there is no air gap between the two contacts even after large no of operations, Make brake is perfect ,No secondary Arc can develop - "Action is a weld Free mechanism" A common problem with many other designs Arc chute Tri coating (once with Zinc twice with Nickel Gold) on Arc splinters creates a suction effect quenching arc much faster than other MCBs -"Action is a Safe MCB"

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MCBs



■ MCB

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■ MCCB

► The Prewired Concept

► VELMCB Innovation

► MCB-What's new

- 10A-1250A ,2pole/3pole/4pole configuration 240/415VAC50Hz,
- Conforming to IS:13947-1&2& IEC 60947-1&2 with 10kA to 65kA breaking capacity also complying with IEC 68-2-6 Vibration test and IEC 68-2-27 shock test, IEC 60529-IP Degree of protection ,IEC 62262-IK degree of protection against mechanical impact.

- Different Frame sizes as per suitability of installation, Thermal magnetic Electronic and Microprocessor trip units-as per suitability of application, power supply can be connected from top (or bottom reverse feeding in selected models).Short Circuit current is limited to very low values due to reflex tripping feature. In case of fault occurrence only the circuit breaker immediately upstream from the fault will trip, due to limited breaking capacity of Adhunik MCCBs this discrimination feature allows cascading among no. of MCCBs installed thereby upstream circuit breaker protects all circuit breakers placed downstream as well as other feeders will remain active in case of fault occurrence in one of output feeders. Models available with source changeover system (main source and alternate source), communication option, optimized auxiliaries.

■ Salient features-

Clear ON/OFF/Trip indications,

High electrical and mechanical endurance,

Line Load reversibility, push to trip facility, terminal suitable for Al & Cu, phase barriers as standard, Field fittabl accessories

- Add on features- Front face and centralized overload adjustment, extended rotary handle and door interlock with IP-54 protection, spreaders provided as standard wherever necessary

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Surge protection at its best

■ MCCB

► The Prewired Concept

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■ DB

▶ The Prewired Concept

▶ VELMCB Innovation

▶ MCB-What's new

■ FABRICATED USING THE FINEST CRCA STEEL SHEET FOR LASTING STRENGTH AND FINE FINISHING.

■ SUBJECTED TO SEVEN TANK PROCESS TO ENSURE ANTI RUSTING AND SMOOTH SURFACE.

■ COATED WITH POLYESTER RESIN BASED POWDER PAINT FOR SCRATCH PROOF SURFACE.

■ DESIGNED TO MATCH THE STYLING OF YOUR HOME DECOR

■ PROPER EARTHING BY MEANS OF ADDITIONAL EARTH BAR

■ MAKES IT COMPLETELY SHOCK PROOF, AND PROTECTION AGAINST CORROSIVE ATMOSPHERE.

■ KEY HOLES FOR MOUNTING OR HANGING THE D. B.

■ DETACHABLE GLAND PLATE AT THE BOTTOM WITH KNOCK OUTS.

■ FOR MAINTENANCE OR REPAIRS THE FRONT PLATE IS REMOVABLE, WHICH KEEPS THE PLASTERING INTACT.

■ CAN BE USED AS SURFACE AS WELL AS FLUSH MOUNTING.

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MMBs



▶ The Prewired Concept

▶ VELMCB Innovation

▶ MCB-What's new

■ Moulded Meter Boards

■ Salient Features

■ Fully Insulated Manufactured from recyclable special grade fire retardant engineering plastic making it completely shock proof and fire proof.

■ Water Proof

Fitted with Neoprene Rubber Profiles on the doors making it water proof.

■ Tamper Proof

Fitted with inside hinges making it Tamper Proof.

■ Independency

Having arrangement to operate the MCB without opening the MCB chamber.

■ Pad Locking

Additional Pad locking facility for MCB operative window

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When the
going gets tough
the tough gets
going and
innovation
happens



▶ The Prewired Concept

▶ VELMCB Innovation

▶ MCB-What's new

■ PREWIRED

■ What makes prewired so special is the inherent idea behind the product. That it is a product to revolutionise the way distribution boards are judged is important.

■ Designed with the user in mind

Prewired addresses almost all the weaknesses of the ordinary DB
Look at the comparison below to check out for yourself

■ **Earthing** Uniform grounding with specialised terminals unlike the stud earthing in DB

■ **Specified Torque** Assembling at site as in the case of DB does not allow torque application to the optimum leaving scope for fire hazards whereas in prewired specified torque at factory makes it standard and safe.

■ **Genuine material** carefully monitored and procured material going through stringent checks make prewired meeting all safety parameters which can not be said about the ordinary DB

■ **Colour coding** proper colour coding is vital for electrical connections made. In prewired it is done at the factory but in ordinary DB it is ignored since it is done at site

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Prewired Dbs

Prewired

■ PREWIRED

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▶ VELMCB Innovation

▶ MCB-What's new

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■ Designed with the user in mind

Prewired addresses almost all the weaknesses of the ordinary DB
Look at the comparison below to check out for yourself

■ **Connections through terminal connectors** makes expensive and vitally important MCBs, MCCBs, RCCBs safe. On the other hand in the ordinary DB the mains is directly connected to incoming and outgoing putting a big question mark for the future

■ **Lugs and thimbles** make connections safe and lasting which are not used in the ordinary DB

■ **Separate chamber for additional wires** which makes the old story of jumbled wires a thing of the past- no stashing of wires here please

■ **Pocket friendly** with recurring repair taken care of with all the above features the prewired becomes a savings account by itself. Even the installation is easy.

■ **No theft product** the next generation cassette type arrangement makes possible the installation at the end of construction- so no theft-and no inconvenience.

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RCCBs RCBOs

RCCB RCBO



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► VELMCB Innovation

► MCB-What's new

■ RCCB / ELCB
(Residual Current Circuit Breaker/Earth Leakage Circuit breaker)

■ 16A-100A ,2pole 240V/4pole 240/415VAC 50hz,DIN rail mounting, Conforming to IS:12640-1:2000& IEC 6 1008-1

■ Provides ground fault protection by monitoring the leakage of the current to ground. RCCB will trip when ground faults are detected in excess of the Gf trip rating of it. The product can also detect and trip when there is a current differential between the live line and neutral line ,and therefore protect people from electric shock. These devices provide GF protection and life protection and are used in series with standard MCBs which provide overload and short circuit protection.

■ The product can be used as a main device providing GF and life protection for several MCB branch devices.

■ RCBO
(Residual Current Circuit Breaker with overload protection)

■ 16A-63A ,2pole 240VAC 50hz,10kA,DIN rail mounting, Conforming to IS:12640-2:2001& IEC 6 1009-2-1

■ Used for protection against electrical leakage in the circuit of 50Hz or 60Hz, rated voltage 240V/415V. When an electric shock or the residual current of the circuit exceeds the threshold value, the RCBO can cut off the power within the time of 0.1s to protect the personal safety and preventing the equipment from the fault resulted by the residual current against overload and short circuit.

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► VELMCB Innovation

► MCB-What's new

■ VELMCB

■ VELMCB is a multi protection device .

■ It packs in the features of MCB, ELCB and partly of VCCB.

■ 1. It protects from Short Circuit & Overload (MCB).

■ 2. Earth Leakage(ELCB)

■ 3. Over Voltage (VCCB).

■ Ratings available

5A to 63A in 30mA, 100mA, 300mA sensitivity, By Pass Switch to avoid nuisance tripping , 4pole module , DIN channel mounting, up to 10kA rupturing capacity

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LT Panels

Feeder Pillars

■ LT Panels /PCC/MCC/MDBs /Feeder Pillars

▶ The Prewired Concept

■ 415V 50Hz. 3phase 4 wire system. CPRI tested for 4000A rated current and Short Circuit withstand strength 50kA Conforming to IS:8623/93.Degree of protection IP-42 to IP56 as per application and requirement.

▶ VELMCB Innovation

▶ MCB-What's new

■ Special 7/9 tank process sequenced as de-greasing, rinsing, de-rusting, rinsing, phosphatising, rinsing and passivation followed by oven heated powder coat with a paint thickness of 60 microns and above is unique and provides extraordinary smooth surface in all the panels making them very attractive in appearance and extraordinary in performance.

■ Safety ensured-Compartmentalized structure ensures complete operator safety. All the compartments including bus chamber, cable alley, connector compartment are dust and vermin proof. High grade Copper Bus bars are joint free & fully insulated with internationally color coded plastic sleeves supported on non hygroscopic, non combustible, anti-tracking, F-class insulators. Load bearing members are not less than 2.0mm thick.

■ Modular design-Extensible on both sides change possible as per site conditions in select designs. Feeder and cable alley doors open in different directions providing ample space for working. In draw out modules (i) Similar sized modules are interchangeable (ii) Electrical indications available for different positions such as Test/ Service/ Isolation.

■ User Friendly-Operating handle of the highest unit is not more than 1.7mt. overall height not exceeding 2.7mt. removable gland plate provided for each cable entry.

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■ Luminaires

■ HPSV/HPMV/MH/CFL/FTL/T-5/6/8 & LED Luminaries with electronic and conventional ballasts.

■ T-5 Luminaries 0.9 > pf > 0.9 and THD less than 30% ,20%, 10% Operating Voltage 80V AC to 300 V AC, with special flexible clamps for mounting in different conditions

■ Channel made up of special high grade Fire retardant PVC, Lamp Holder white Poly Carbonate, phosphor bronze contacts, push-fit arrangement

■ End Caps made of high grade ABS, Special dual prismatic cover for anti glare effect

■ available in 14/28 for T-5 & 18/36 watts for T-8

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Wires & Cables



■ Wires and cables

▶ The Prewired Concept

▶ VELMCB Innovation

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■ Single core/Multicore flexible wires conforming to IS:694 & IEC:60227:

■ Copper Conductor of high purity- electrolytic grade, annealed copper 0.5sqmm to 300sqmm. Insulation for all applications 70deg./105deg C heat resistant PVC-FR for high ambient temps like in panel, flame retardant Low smoke-FRLS for high density critical installations, Halogen free Flame retardant-HFFR for fire prone areas. Dual Insulation (Primary-natural PVC, Secondary colored skin PVC insulation) for extra smooth finish, Higher volume resistivity of insulation, better ageing characteristic. Armoured/ Un-armoured, Braided/shielded Cables -Sheathing PVC/HRPVC/FRLS Cores Circularly/Flat laid cores 2core/3Core/4core- Red Yellow Blue Black and Green.

■ TV Co-Axial:

Attenuation losses contained to minimum. Double shielding-Primary-Polyester backed aluminium taped shielding with 100% coverage Additional shielding with fine tinned copper braid to ensure high quality reception and transmission of signals. RG-6/8/9/11/59

■ Telephone cables: 1 pair to 100pairs ,un-armoured/ armoured with conductor size 0.4 to 0.9mmannealed tinned copper .Hard grade copper for long life and stable properties, Staggered lays of twisted pairs, optimum values of Capacitance, capacitance unbalance, Attenuation, Characteristic Impedance etc.

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