

Cross currents

JUNE, 2012

FOR PRIVATE CIRCULATION ONLY

New Additions To 'elmex' Range Of Terminals

'Compact' Distribution Blocks DBD 16 & DBD 35

elmex introduces compact design distribution blocks with multiple connection possibilities as mentioned in specification table given below in this issue.

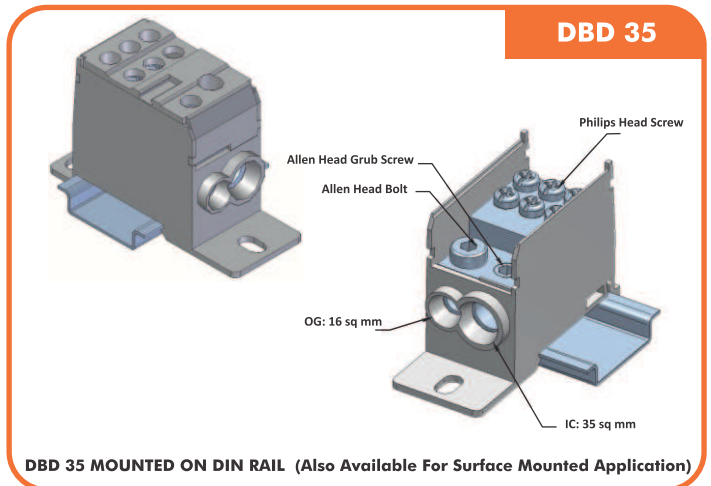
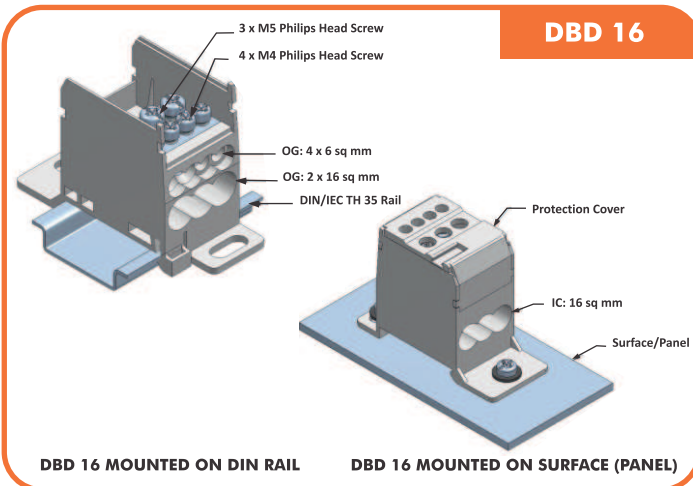
Conventional distribution blocks are constructed using one input block which is centrally located (or located at one of the ends of terminal block) and multiple output terminals which are stacked side by side resulting in higher pitch. This constraint (of increased pitch distance) is taken care of in these distribution blocks which accommodate/receive all conductors for input and output into one single, compact in size current block, thus reducing terminal pitch drastically.

These distribution blocks, **elmex** type DBD 16 & DBD 35, are designed for distribution of high current to feed multiple circuits. Typical applications include distribution of single phase supply with high current to different/various load circuits with lower current requirements. In case of three phase application, three distribution blocks can be conveniently used.

The unique feature of these distribution blocks is that they are designed for mounting on DIN/IEC TH 35 rails as well as on surface/panel depending on the application. Also these distribution blocks ensure finger safe protection against electric shock hazard (by protection class IP 20).

Insulation housing in these distribution blocks is made using engineering plastic Polyamide 6,6 conforming to flammability class V2 as per standard UL 94. The current carrying part is in form of solid block of Copper-Alloy (Brass) which is Nickel-Tin electroplated for ensuring protection against atmospheric corrosion and good conductivity.

These distribution blocks are designed for termination of unprepared conductors. In case of DBD 16, conductor termination is by means of Philips-head screws for input as well as output whereas in case of DBD 35, the same can be ensured by Allen-head grub screw for input and Philips-head/Allen-head screws for outgoing conductors.



TERMINAL TYPE	SPECIFICATION				
	Pitch	Height x Width	Rated Cross Section	Connection Possibility	Ratings as per IEC 60947-7-1
DBD 16	27.5 mm	46.5 mm x 66.0 mm	Incoming (IC): 16 sq mm Outgoing (OG): 2 x 16 sq mm 4 x 6 sq mm	Incoming (IC): 6 to 16 sq mm Outgoing (OG): 6 to 16 sq mm 2.5 to 6 sq mm	630V/76A, IC - 16 sq mm Torque - 1.2 Nm, OG - 6 sq mm Torque - 0.8 Nm
DBD 35	27.5 mm	46.5 mm x 75.5 mm	Incoming (IC): 35 sq mm Outgoing (OG): 1 x 16 sq mm 6 x 10 sq mm	Incoming (IC): 6 to 35 sq mm Outgoing (OG): 6 to 16 sq mm 2.5 to 10 sq mm	630V/125A, IC - 35 sq mm Torque - 4.5 Nm, OG - 10 & 16 sq mm Torque - 1.2 Nm,

New range of Earth Terminals ET N4, ET N6, ET N10, ETDD 4N and SET 4

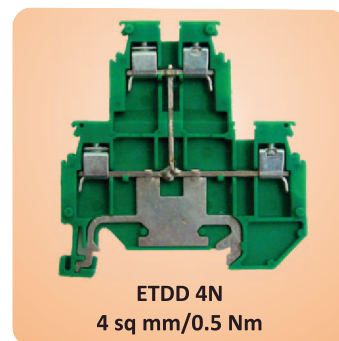
elmex KUT-N series (KUT 2.5N, KUT 4N, KUT 6N, KUT 10N and KUDD 4N) are already in use by industry and now **elmex** introduces Earth Terminal's range corresponding to this series of Terminal Blocks.

These terminals are constructed using fully insulated insulation housing of Polyamide 6,6 in green-yellow colour combination. Current bar and terminal foot are made using high conductivity Copper-Alloy (Brass). Terminals ET N4, ET N6 and ET N10 are mounted on DIN rails by means of the metallic foot and firm attachment on the rail is achieved by tightening the central screw. This mounting provides a low resistance earth contact and also prevents inadvertent removal of earthing terminal from the rail. Mounting rail has two functions, operating as mechanical support for all terminals as well as electrical earth-bus for the earthing apparatus,

through earthing terminals. In case of ETDD 4N, mounting on rail is achieved by snap-fit action of terminal foot.

Terminal Block ETDD 4N corresponds to terminal block KUDD 4N. It is a double deck earthing terminal block with upper deck offset by half the terminal pitch (i.e. 3 mm) with respect to lower deck, thus facilitating increase in wiring density.

These terminal blocks are designed for conductor termination by proven screw clamp technology. Terminal Screws are made of special grade steel and terminal clamps are made using CRCA (Cold Rolled Close Annealed) steel. Both, the screws and the clamps, are Zinc plated with blue passivation for protection against environmental corrosion.

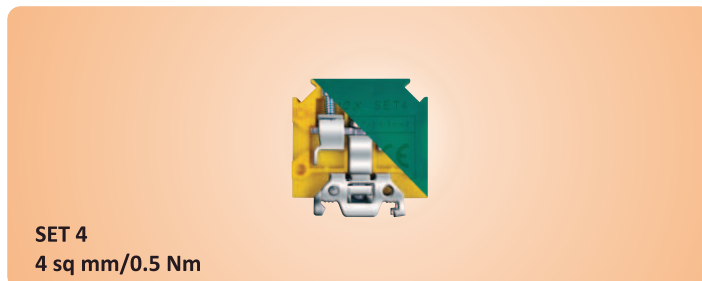


Earth Terminal SET 4 For Micro Channel

elmex introduces earthing solution for wiring applications where space is a constraint. SET 4 is designed for mounting on Micro Channel (TH 15) which is smaller and lighter compared to standard DIN Rail TH 35 (TS 35) and G 32 (TS 32).

Though SET 4 is compact in size, it is functionally compatible (with earth terminals designed for mounting on TH 35 or G 32 rails) for termination of 4 sq mm conductor for earthing application.

SET 4 also employs termination by screw clamp technology.



Test Disconnect Terminal Blocks

elmex expands its range of test disconnect terminal blocks by developing and launching two more terminal blocks type DSDT 2.5 & DSDT 2.5 2x2. These terminal blocks are designed for conductor termination by spring clamp mechanism and employ test disconnect facility by knife-edge mechanism. While DSDT 2.5 facilitates termination of one input and one output, DSDT 2.5 2x2 has provision for one input and three outputs. These terminals are rated for termination of 2.5 sq mm conductors, both flexible and rigid; however the connection possibility also includes 0.5 sq mm, 1 sq mm and 1.5 sq mm conductor.

The current carrying part (current bar) and Knife Edge are of electrolytic grade Copper which is Tin plated for protection against environmental corrosion. Unique feature of these terminal blocks is the profile of current bar which is angular in areas of contact with the knife edge resulting in firmer grip. In addition to this, all the salient features related to construction and performance aspects of **elmex** spring clamp terminal blocks are retained (Cross Currents August 2011).

The conductors are retained in the terminal clamps by spring force action

of the clamp. The spring clamps are made using special grade Austenitic stainless steel material which is heat treated for stress relieving at **elmex**. Important characteristics of this spring steel are high fatigue strength, better resistance to corrosion effects, high relaxation resistance at elevated temperatures, high ductility, low yield stress and relatively high ultimate tensile strength.

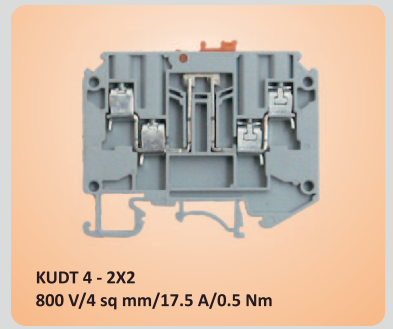


KUDT 4 - 2x2

This terminal block is designed for circuit disconnection by knife-edge mechanism and employs standard screw clamp technology for conductor termination. Terminal assemblies comprise of conductor clamps which are made using CRCA and terminal screws made of special grade steel. Clamps are with double interlock design that ensures high torque withstand capacity than specified in relevant product standards. Terminal clamps and screws are zinc plated with blue passivation. Current bar which is made up of Copper-Alloy (Brass) is Tin plated with Nickel undercoat.

These terminal blocks are provided with flexible mounting foot which enables them to be mounted on both the types of DIN rails (i.e. TH 35 & G 32).

Test disconnect terminal blocks DSDT 2.5, DSDT 2.5 2X2 and KUDT 4 2X2 can be conveniently used in application where periodic maintenance, fault simulation and troubleshooting are to be carried out without removing the actual connections of the circuit. They also find their major application in control and instrumentation industry.



All the terminal blocks, described in this issue, and their constituent parts like insulation housing, terminal screw, clamp, stud, nut, current bar, spring clamp etc. are in compliance with environmental directive (RoHS Directive) which restricts use of hazardous substances to limiting values as specified in the Directive.

'elmex' Participates In Vadodara International Half Marathon, 2012

elmex has been participating in this annual event since 2009 and this year too elmex participated in this event which is organized for noble causes for the city of Vadodara like "Green Vadodara Clean Vadodara" along with other cultural and sports events. The event was held on February 5, 2012.

In all, there were 110 participants from elmex and it included employees,

their spouses, children and relatives also. Everyone participated with great enthusiasm; and there were six of them, by name, Mr. Anuj Prajapati, Divyesh Parmar, Jigar Shah, Pankaj Singh, Prashant Singh and Ronak Thakkar who participated and completed the 15 km run with full of their energy.

Kudos to all those who ran for this noble cause!



All our enthusiastic participants at the venue.



Our Energy Packs!! Those who completed the 15 km run.

Cricket At 'elmex'

It was all fun and frolic in the months of March – April, 2012 when a company wide cricket tournament was organized in which teams from various departments and Units played Cricket on Sundays. Though none

of the players were either regular or recognized players, all the elements of good cricket were observed; and every one played with spirit of the game and amply demonstrated Team Spirit.



Now.... That's a team effort!



And the winner is.....

Participation In Exhibition

elmex participated in various national and international exhibitions held in India and abroad from January, 2012 to April, 2012. In these exhibitions many new products were displayed in addition to existing range of elmex products and the response was overwhelming.



10th international exhibition of electrical and industrial electronics industry

ELECRAMA-2012

THE INDIA POWER FACTOR

18-22 JANUARY 2012, BOMBAY EXHIBITION CENTRE, MUMBAI, INDIA

18th to 22nd January, 2012.
Bombay Exhibition Centre,
Mumbai, India.



4th to 9th January, 2012.
 Codisia Trade Fair Complex, Coimbatore, India.



7th to 9th February, 2012.
 Dubai International Exhibition Centre, Dubai, UAE.



4th to 6th April, 2012.
 Jakarta International Expo, Jakarta, Indonesia.

VISIT US AT

AUTOMATION 2012

7-10th SEPTEMBER 2012, NSE MUMBAI

Date: 7th to 10th September, 2012.
 Stall No.: L36
 Place: NSE Complex, Goregaon, Mumbai.

engineering EXPO

Date: 21st to 24th December, 2012.
 Hall: C, Stall No: 20.
 Place: TBA, Ludhiana.



Participation In Blood Donation Camp

Blood Donation Camp was organized by Indian Red Cross Society and Gujarat Industrial Development Corporation (GIDC) at Por, Vadodara on April 13, 2012 and in all 36 employees from econix donated their blood. Indeed a selfless contribution by one and all who donated their blood for benefit of those in need!

For regular updates on technical advances on termination technology and activities at elmex, please follow us at



Elmex Controls Pvt. Ltd.



ElmexControls



Elmex Controls Pvt. Ltd.



Elmex Controls Pvt. Ltd.
Econix Hi-Tech Components Pvt. Ltd.

12, GIDC Estate, Makarpura Road, Vadodara 390 010, India.
 Telephones: +91-265-2642021, 2642023 ♦ Facsimile: +91-265-2638646
 e-mail: marketing@elmex.net ♦ URL: www.elmex.net

