

Cross currents

JULY, 2008

FOR PRIVATE CIRCULATION ONLY

elmex DISTRIBUTION BLOCKS

elmex Distribution Blocks offer most convenient, cost effective and space saving solution, for distributing power supply to a number of motors and other loads from switchgear panel. Traditionally this distribution is achieved through provision of auxiliary busbars and jumpers / cables, or by looping adjacent load supply points.

elmex Distribution Blocks are built up from well proven **elmex** feed through terminal blocks. These are stacked together with a common current bar, which electrically functions like a fully insulated and fully enclosed busbar, and mechanically holds all the terminal blocks together. Conductor connections possible with **elmex** range of distribution blocks are described in the tabulation.

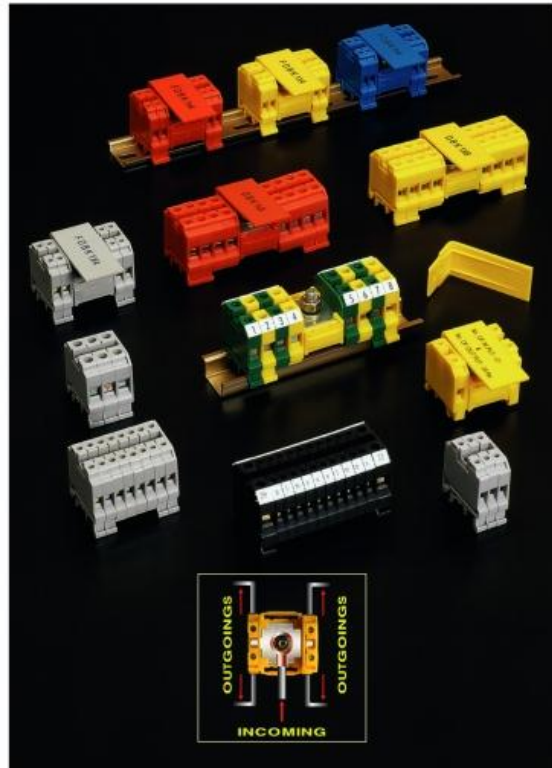
elmex Distribution Blocks have Polyamide 6.6 housing. They are mounted on universal DIN-rails (32 / 35 mm). With **elmex** Distribution Blocks incharge of supply distribution, it is very easy to accommodate additions / alterations in distribution system - a facility not available in traditional bus / cable arrangement.

elmex Distribution Blocks are also used as centralized earthing system, with the common current bar forming earth bus. They can be used as neutral links, by connecting system neutral and individual neutral wires to distribution blocks, in which case the common current bar forms neutral bus.

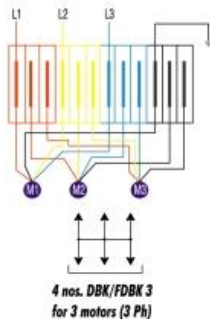
For Laying out supply distribution, centralized earthing, or neutral links, there are two main options:

- (1) Use DBK/ FDBK -3, -4, -6, -8: Here all terminals have same connection capacity and rated current.
- (2) Use DBK / FDBK 1x2, 1x4, 1x8: here incoming has higher rating with stud & nut clamping for using ring / fork type cable lugs. Type DFBK 12 provides two incomings (screw clamps). In all these cases, outgoing are similar to option (1).

elmex Distribution Blocks conform to international standards. They are available with a complete range of accessories and in grey, khakhi, red, yellow, blue, black, green and part green / part yellow colours.



TERMINALS AND APPLICATION DIAGRAMS



DBK 8



FDBK 8



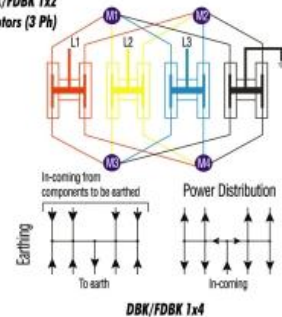
DBK 1x8



FDBK 1x8



4 nos. DBK/FDBK 1x2 for 4 motors (3 Ph)



Range of *elmex* Distribution Blocks

DISTRIBUTION BLOCK TYPE	INCOMING TERMINALS (IC)			OUTGOING TERMINALS (OG)		
	No. OF IC	CONNECTION CAPACITY UP TO	CONDUCTOR CLAMPING	No. OF OG	CONNECTION CAPACITY UP TO	CONDUCTOR CLAMPING
DBK - 3, 4, 6, 8	*	10 sq mm	Screw Clamp	3/4/6/8	10 sq mm	Screw Clamp
DBK 1x2, 1x4, 1x8	1	35 sq mm	Stud & Nut	2/4/8	10 sq mm	Screw Clamp
FDBK - 3,4,6,8	*	4 sq mm	Screw Clamp	3/4/6/8	4 sq mm	Screw Clamp
FDBK 1x2, 1x4, 1x8	1	25 sq mm	Stud & Nut	2/4/8	4 sq mm	Screw Clamp
DFBK 12	2	10 sq mm	Screw Clamp	10	4 sq mm	Screw Clamp

* Any one or more of 3 / 4 / 6 / 8 terminals can be used as incoming and remaining terminals can be used as outgoing.

Using *elmex* Distribution Blocks

- ❖ *elmex* screw clamps can accept flexible/stranded/solid conductors, including cables with pin-type lugs. The stud and nut clamping can accept fork type or ring type cable lugs.
- ❖ Each outgoing terminal of *elmex* distribution block has two termination points (just as in feed through terminals). Therefore, 2/3/4/6/8 terminals can be used to connect twice the number of motors (or other loads) i.e. 4/6/8/12/16 nos.
- ❖ The space occupied by *elmex* distribution blocks on DIN-rails, for supply distribution to 4/6/8/12/16 loads is incredibly small compared to corresponding bus/jumper/ cable distribution.
- ❖ For 3-phase distribution, or 3 phase – 4 wire distribution, one *elmex* distribution block is used for each phase/wire.
- ❖ Total 3-ph. power which can be distributed using *elmex* distribution blocks with incomings of 25, 35 sq mm is approx 36, 65 kW (49, 87 HP) respectively.

elmex & *econix* Participation at International Exhibitions



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 4th International Exhibition and Conference
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HALL # 1, Stall # E-48 & 49

elmex Fuse Terminals

In switchgear and control applications provision of fuses for different controls / indication circuits is a common practice. Usually a separate assembly of a number of fuses is installed, and wired up to individual circuits.

This traditional arrangement of control-circuit fuses can be replaced by **elmex** Fuse Terminals which house standard tubular fuse cartridge integrally with the terminal, through the provision of a hinged lever that carries fuse holder. LED indications are optionally available, which permit quick identification of fuse-blown condition.

Major advantage of this application of **elmex** Fuse Terminals lies in the hinged lever feature that permits very quick isolation of faulty circuit, as well as fuse replacement. **elmex** Fuse Terminals offer considerable savings in fuse installation space and therefore they are an ideal choice in compact installations. **elmex** comb type shorting links can be used, for control-supply distribution through individual

fuses.

elmex Fuse Terminals consist of Polyamide 6.6 housing, steel or brass screw clamp and hinged lever or fuse with screw cap. The tubular glass cartridge fuse holder is made from special grade phosphor bronze, which offers low contact resistance. The LED for fuse blown indication can be supplied for following voltages AC : 110 / 240 V and DC : 12 / 24 / 48 / 110 / 220 V. **elmex** Fuse Terminals accommodate 5 x 20, 5 x 25 and 6 x 32 mm fuse cartridges.

In place of fuse element, a solid brass link type DL4 can be used. The terminal then functions as disconnect type terminal.

elmex Fuse Terminals conform to international standards. They are available with various standard accessories and can be supplied in grey, khakhi, red, yellow, blue, black and green colours.

Range of **elmex** Fuse Terminals

TERMINAL	TYPE & RATINGS	FUSE SIZE	FEATURES
	KUDF4 : 800 V / 6.3 A / 4 sq mm	5 x 20 mm 5 x 25 mm	<ul style="list-style-type: none"> ✳ Polyamide 6.6 ✳ Universal Din-rail mounted ✳ LED for fuse blown indication. ✳ Hinged lever carrying fuse ✳ Fully enclosed. No end plate required
	KUDDF4 630 V / 6.3A/2.5 sq mm : Upper 630 V / 28A/2.5 sq mm : Lower	5 x 20 mm 5 x 25 mm	<ul style="list-style-type: none"> ✳ Polyamide 6.6, Double-deck ✳ Universal Din-rail mounted ✳ LED for fuse blown indication. ✳ Hinged lever carrying fuse ✳ Fully enclosed. No end plate required
	UBDF4 1000 V / 6.3 A / 4 sq mm	5 x 20 mm 5 x 25 mm	<ul style="list-style-type: none"> ✳ Polyamide 6.6, All Brass ✳ Universal Din-rail mounted ✳ LED for fuse blown indication. ✳ Hinged lever carrying fuse ✳ Fully enclosed. No end plate required
	KUF10 1000 V / 12 A / 10 sq mm	5 x 20 mm 5 x 25 mm	<ul style="list-style-type: none"> ✳ Polyamide 6.6 ✳ Universal Din-rail mounted ✳ LED for fuse blown indication. ✳ Fuse housing with screw cap
	KUFH4 800 V / 12 A / 4 sq mm	6 x 32 mm (1/4" x 1 1/4")	<ul style="list-style-type: none"> ✳ Polyamide 6.6 ✳ Universal Din-rail mounted ✳ LED for fuse blown indication. ✳ Hinged lever carrying fuse ✳ Specially developed for inch size fuse

elmex Stud Termination Solutions

A time-tested range now in Polyamide 6,6...



STUD TERMINALS :

- ✓ Finger-safe, Unbreakable, most trusted Design
- ✓ Choice of Screw Driver/Nut Driver operated terminals
- ✓ Suitable for upto 25 sq mm conductor, Mountable on all DIN Rails
- ✓ Disconnecting Terminal Available (CATD M4/CLTD M4 Equivalent)

elmex : The name you have come to trust

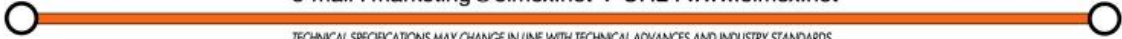


We welcome your suggestions and queries regarding our products and feedback about CROSS CURRENTS. Write to us at ask@elmex.net



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TECHNICAL SPECIFICATIONS MAY CHANGE IN LINE WITH TECHNICAL ADVANCES AND INDUSTRY STANDARDS.