



Cross currents

JANUARY, 2009

FOR PRIVATE CIRCULATION ONLY



**TEAM *elmex* WISHES YOU
A VERY HAPPY AND PROSPEROUS
NEW YEAR!**



NEW RANGE OF *elmex* DISTRIBUTION BLOCKS **2.5 sq mm to 150 sq mm** ***For Control Signal to High Power Distribution***

elmex Distribution Blocks type FDBK and DBK have been already popular for many years. These types enable distribution of controls from 4 sq mm (32 A) up to medium power distribution with 35 sq mm (114 A) cables. *elmex* has now extended this range both ways to enable distribution of control signals with 0.5-2.5 sq mm wires up to high power distribution with 150 sq mm (309 A) cables.

These distribution blocks are available in DIN rail mounted version (TS 15, 35) and one type in panel mounted version. They are in Polyamide 6.6 housing and available in grey, khakhi, red, yellow, blue, black, green and green yellow colours.

*This issue presents a complete range of *elmex* Distribution Blocks with ratings and applications.*

***For Control & Field signal distribution, for lighting application,
for junction boxes and for distribution of Power Supplies.***

DBK 2.5 **NEW**



up to 10 way, 2.5 sq mm

DBM 4 (Micro) **NEW**



up to 10 way, 2.5 sq mm

DBP 4 (Panel Mounted) **NEW**



up to 10 way, 4 sq mm

For distributed control systems and for power distribution (up to 57 A)

FDBK 3,4,6,8



3/4/6/8 way, 4 sq mm

DBK 3,4,6,8



3/4/6/8 way, 10 sq mm

DFBK 12 **NEW**



**OG : 4 sq mm, 10 way
IC : 10 sq mm, 2 way**

For Power Distribution up to 114 A

DBK 1x2, 1x4, 1x8



2/4/8 way, 10 sq mm with one incoming 35 sq mm

FDBK 1x2, 1x4, 1x8



2/4/8 way, 4 sq mm with one incoming 25 sq mm

For Power Distribution up to 309 A

DBK 150/16 : 1x2, 1x4



NEW

2/4 way, 16 sq mm with one incoming 150 sq mm

DBK 150/25 : 1x2, 1x4



NEW

2/4 way, 25 sq mm with one incoming 150 sq mm

Fully shrouded, finger safe, for power distribution up to 309 A, for ring/fork lugs.

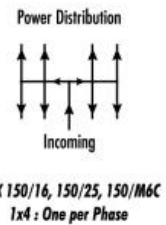
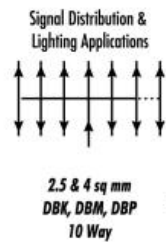
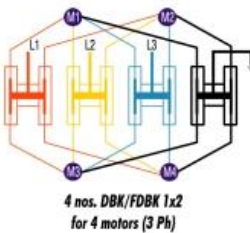
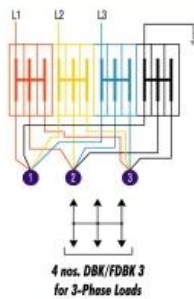
DBK 150/M6C : 1x2, 1x4



NEW

2/4 way, 35 sq mm with one incoming 150 sq mm

SOME APPLICATION DIAGRAMS



NEW RANGE OF *elmex* DISTRIBUTION BLOCKS

Until recently *elmex* distribution blocks in type - group DBK, FDBK, and DFBK mainly served the needs of power distribution from 32 A / 4 sq mm up to 114 A / 35 sq mm. *elmex* has now extended the range considerably so that it is now possible to use *elmex* distribution blocks for very low power such as control signals (2.5 sq mm) up to high power such as large loads (150 sq mm, 309 A).

The principle of construction essentially remains same for all the types of *elmex* distribution blocks. The outgoing terminals are standard design of terminals, having a specially designed current bar, which holds all terminals together and provides electrically continuous, fully insulated, "bus bar" for all terminals. To allow use of fork/ring type lugs **for outgoing connections**, *elmex* now offers fully insulated finger safe terminals in stud and nut clamping version (35 sq mm up to 125A). All other types have well proven screw clamp outgoing terminals. As for incoming, both stud and nut clamping, as well as screw clamping, are now available.

Using *elmex* Terminal 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.

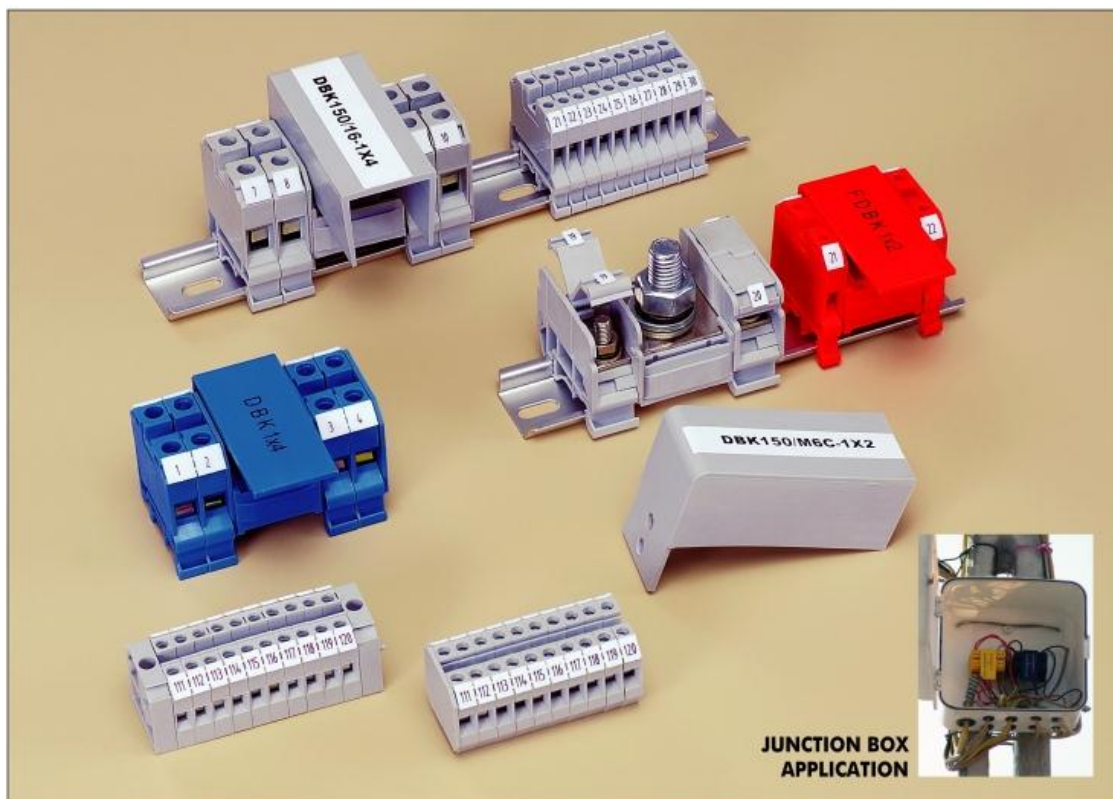
⇒ Each outgoing terminal of *elmex* distribution block has two termination points (just as in feed through terminals). Therefore 2/3/4/6/8 terminals can be used to connect twice the number of conductors (or loads) i.e. 4/6/8/12/16 nos.

⇒ 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-phase power, which can be distributed using *elmex* distribution blocks with incoming of 10, 25, 35, 150 sq mm with rated currents of 57A, 64A, 114A, 309 A respectively, is about 33kW, 37kW, 66kW and 178 kW.

For Control/Field signal distribution, for lighting application and for junction boxes, wires are connected to terminals of distribution blocks. Due to specially designed current bar, working as a "bus bar", these connections are internally shorted, without need of shorting links or looping.



JUNCTION BOX APPLICATION

