

Klemsan[®]

**Terminals & Accessories
Product Catalogue**



**R&D
Technology**

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Company Profile

KLEMSAN ELECTRIC & ELECTRONIC INC. is the first and the only manufacturer of electrical / electronic terminals, components and accessories in Turkey since 1974.

KLEMSAN, as an ISO 9001 & ISO 14001 certified manufacturer, located at Kemalpaşa / Izmir, offers a comprehensive product portfolio that complies with EC directives and carries not only the CE mark but also ATEX, VDE, UL, cULus, CSA, DNV and GOST-R approvals as a global passport to the international markets.

KLEMSAN not only has regional offices in Istanbul, Ankara and Adana but has a distribution network consisting of 72 branches in Turkey having the biggest market share. At the moment they are exporting to 40 countries including Australia, USA, Canada, Brazil, Chile, South Korea, Italy, France, England, Germany, Denmark, Russia, Israel, Taiwan, UAE, Morocco, S.Arabia, Syria, Iran, Egypt, Tunisia etc.

Klemsan are able to continually develop their product range through our in house R&D facilities and offer custom designed and technically advanced solutions to their customers.

Terminal Blocks

Terminal blocks are components and systems the main function of which is to ensure safe and secure electrical and mechanical conductor connections. The term covers all conceivable types, designs and forms of connection. From the point of view of application, the most important group of terminals is that of rail mounted modular terminal blocks.

The current carrying bar must be made of metals which reduce electrical losses.

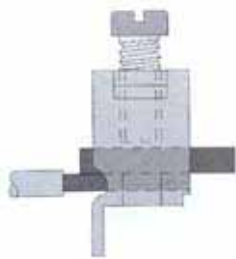
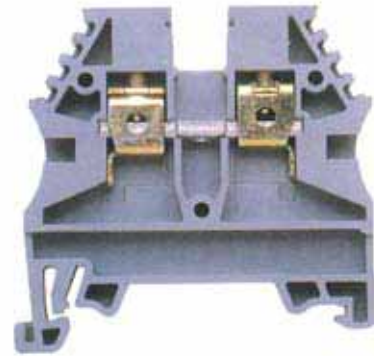
Insulation material must be nonflammable and self extinguishing.

The screw must not become loose due to vibration.

The current carrying bar must have such a form that the conductor has a strong contact area at the point of connection.

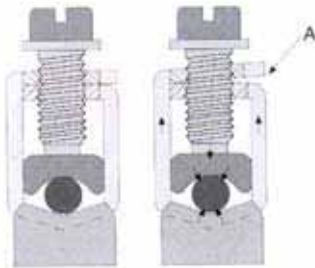
The terminal block series should have a complete range together with all the accessories to provide the best solutions in the minimal area.

All of these features are found in the design of Klemsan terminals ensuring optimum performance.



CONNECTIONS SYSTEMS

SCREW CONNECTION: This is the most popular of all known methods of connection. Screw connection refers to any connection in which the conductor is stripped of its insulation and clamped without any special preparation. Klemsan screw clamp system has built in protection against loosening.



When the screw is tightened, the resultant pressure pulls apart both halves of the clamping yoke. This generates a particularly high locking action on the screw. These clamping systems provide excellent vibration resistance.



SPRING CLAMP SYSTEM

The stainless steel spring presses the conductor directly against the current bar. Due to the special construction of the clamping body the contact force is further increased when pulling the conductor.

MATERIALS

KLEMSAN terminals are made of carefully selected high standard materials. Insulating materials, clamping metals and conducting metals are subjected to strict quality control as required by stringent international standards.

Clamping yokes and screws are zinc plated which considerably increases the resistance to corrosion. Current bars are made from brass / electrolytic copper, coated with tin / lead oxide and nickel. Ensuring surface protection guarantees very low contact resistance.

Engineering thermoplastic Polyamide 6.6 has excellent electrical, mechanical and chemical characteristics at temperatures as high as 100°C and contain no cadmium based colour pigments. Polyamide 6.6 moulded housing absorbs humidity from its surroundings. This makes the plastic material elastic and fracture proof at temperatures as low as -40°C. Being a self extinguishing material it is difficult to ignite and burns only as long as there is a supporting flame. It is rated V2 according to UL94. Good aging resistance and insensitivity to ultraviolet light makes it suitable for tropical and open air applications.

MAIN TERMINOLOGY

Modular Terminal Blocks: Modular terminal blocks are used worldwide whether in distribution boards, control centres or machine control systems in ships, power stations or railway rolling stock. Klemsan terminals guarantee safe connections in all low voltage installations. In view of this versatile and worldwide application, the materials used and the technical data achieved meet the highest quality standards. Approvals have been obtained from all major industrial countries.

Rated Cross-Section: The rated cross-section of a terminal block is a value of conductor cross-section which is indicated by the manufacturer and covered by the thermal, mechanical and electrical requirements.

Rated Current: The rated current of a terminal block is a current value which is indicated by the manufacturer and covered the thermal, mechanical and electrical requirements on using the rated cross-section.

The Rated Voltage: The rated voltage of a terminal block is a voltage value which is stated by the manufacturer according to creepage and clearance distances and which does not allow any deformation on product.

Nominal Dimensions: Nominal dimensions are the overall dimensions of the terminal block with fixings, but without tolerances. To the specified terminal with a tolerance of +0.2mm must be allowed during design when mounting in rows.

Insulation Stripping Length: The required stripping length for every Klemsan product is stated in mm. These lengths must be observed.

End Plate: The last terminal in a rail mounted assembly must be closed with an end plate. The end plate is held in position by the end bracket.

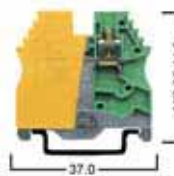
Partition: The partition is required for the visual separation of circuits or for electrical separation in case of adjacent cross connections.

Small Partition: Small partitions can be inserted after assembly into terminal blocks of up to a maximum thickness of 10mm between cross connections and test sockets.

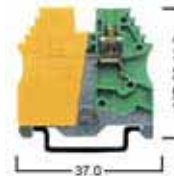
AVK T Series Earth Terminals

The strict IEC requirement imposed on ground connections, such as low contact resistance, corrosion free connection points, secured screws, green-yellow colour coding and clear circuit identification are fully observed by the KLEMSAN earth terminal blocks. Mounted on the same DIN RAIL with other types of terminals, they are easily distinguished by their green - yellow colour code. The structural design of the earth terminal blocks is based on the fact that the mounting rail is used not only mechanically, but also electrically, i.e. as a ground (PE) busbar. Therefore it is possible to position the earth terminal blocks directly next to the phase conductor terminals. AVK T earth terminal blocks offer the same space savings and competitiveness as AVK series and the general terminal marking system can be used.

AVK 2.5 / 4 T
Width 6mm
334 120



AVK 6 / 10 T
Width 10mm
334 140



AVK 16 / 35 T
Width 16mm
334 160



Torque: 0.5 Nm

Torque 1.2 Nm

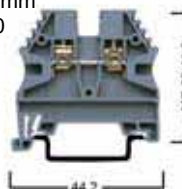
Torque 2.5 Nm

Electrical Ratings		Torque: 0.5 Nm		Torque 1.2 Nm		Torque 2.5 Nm			
Voltage / Current / Cross Section		- V - / - A / 4mm ²		- V - / - A / 10mm ²		- V - / - A / 35mm ²			
VDE (IEC 60947-7-1)									
VDE (IEC 60947-7-2)		- V - / - A / 4mm ²		- V - / - A / 10mm ²		- V - / - A / 35mm ²			
UL/CSA		AWG 26/10		AWG 16-8		AWG 8-2			
Insulation Stripping Length		10mm		12mm		18mm			
Connection Data									
Solid Strand, Screw Connection		0.5 - 6mm ²		1.5 - 16mm ²		6 - 16mm ²			
Fine Strand, Screw Connection		1.5 - 4mm ²		1.5 - 10mm ²		10 - 35mm ²			
AWG Conductor		26..... 10		16..... 6		8..... 1			
Ordering Data		Cat No. QTY		Cat No. QTY		Cat No. QTY			
Polyamide 6.6									
BEIGE									
GREY									
YELLOW-GREEN		334 120 <input checked="" type="checkbox"/> 50		334 140 <input checked="" type="checkbox"/> 25		334 160 25			
Mounting Rails		TYPE Cat No. QTY		TYPE Cat No. QTY		TYPE Cat No. QTY			
MR 35x7.5	MR 35x15	MR 35x7.5	500 601	MR 35x7.5	500 601	MR 35x7.5	500 601		
MR 35x7.5 Slotted	MR 35x15 Slotted	Slotted	500 602	Slotted	500 602	Slotted	500 602		
		MR 35x7.5	500 603	MR 35x7.5	500 603	MR 35x7.5	500 603		
		Slotted	500 604	Slotted	500 604	Slotted	500 604		
		MR 35x7.5	500 605	MR 35x7.5	500 605	MR 35x7.5	500 605		
		MR 35x15	500 606	MR 35x15	500 606	MR 35x15	500 606		
		Slotted	500 607	Slotted	500 607	Slotted	500 607		
Group Marking									
GE	GE 2	BEIGE		GE	496 119	50	GE	496 119	50
		GREY							
Australian Stock <input checked="" type="checkbox"/>									

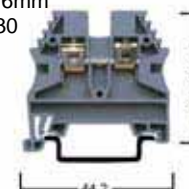
Feed-Through Terminals and Accessories AVK Series

AVK type terminals are manufactured from thermoplastic raw material. Grey as being the main colour, 5 different colours give users the choice for grouping.

AVK 2.5
Width 5mm
304 120



AVK 4
Width 6mm
304 130

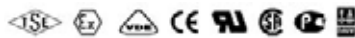


Torque: 0.4 Nm

Torque: 0.5 Nm

Colours	Terminals	End Plate	Partition
	Cat No.	Cat No.	Cat No.
	AVK 2.5	NPP	APP
GREY	304 120	444 120	462 120
BLUE	304 121	444 121	462 121
GREEN	304 122	444 122	462 122
YELLOW	304 123	444 123	462 123
RED	304 124	444 124	462 124
BEIGE	304 129	444 129	462 129
	AVK 4	NPP	APP
GREY	304 130	444 120	462 120
BLUE	304 131	444 121	462 121
GREEN	304 132	444 122	462 122
YELLOW	304 133	444 123	462 123
RED	304 134	444 124	462 124
BEIGE	304 139	444 129	462 129
	AVK 6	NPP	APP
GREY	304 150	444 120	462 120
BLUE	304 141	444 121	462 121
GREEN	304 142	444 122	462 122
YELLOW	304 143	444 123	462 123
RED	304 144	444 124	462 124
BEIGE	304 149	444 129	462 129
	AVK 10	NPP	APP
GREY	304 150	444 120	462 120
BLUE	304 151	444 121	462 121
GREEN	304 152	444 122	462 122
YELLOW	304 153	444 123	462 123
RED	304 154	444 124	462 124
BEIGE	304 159	444 129	462 129
	AVK 16	NPP	APP
GREY	304 160	444 160	462 160
BLUE	304 161	444 161	462 161
GREEN	304 162	444 162	462 162
YELLOW	304 163	444 163	462 163
RED	304 164	444 164	462 164
BEIGE	304 169	444 169	462 169
	AVK		
GREY	304 170		
BLUE	304 171		
GREEN	304 172		
YELLOW	304 173		
RED	304 174		
BEIGE	304 179		
	AVK 70		
GREY	304 190		
BLUE	304 191		
GREEN	304 192		
YELLOW	304 193		
RED	304 194		
BEIGE	304 199		

Australian Stock Item ☑



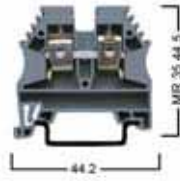
Electrical Ratings			Voltage / Current / Cross Section			750V ~ / 26 A / 2.5mm ²			750V ~ / 34 A / 4mm ²																	
VDE (IEC 60947-7-1)			750V ~ / 24 A / 2.5mm ²			750V ~ / 32 A / 4mm ²																				
UL / CSA			600V ~ / 20 A / AWG 26-12			600V ~ / 30 A / AWG 26-10																				
ATEX (IECEx SIR 05.0060U)			630V ~ / 21 A / 2.5mm ²			400V ~ / 28 A / 4mm ²																				
Insulation Stripping Length			10mm			10mm																				
Connection Data			Solid Strand, Screw Connection			0.5 - 4mm ²			0.5 - 6mm ²																	
			Fine Strand, Screw Connection			1.5 - 2.5mm ²			1.5 - 4mm ²																	
			AWG Conductor			26..... 12			26..... 10																	
Ordering Data			Cat No.			QTY			Cat No.			QTY														
Polyamide 6.6			GREY			304 120			100			304 130			100											
Mounting Rails			TYPE			Cat No.			QTY			TYPE			Cat No.			QTY								
MR 35x7.5			MR 35x15			MR 35x7.5			500 601			1m			MR 35x7.5			500 601			1m					
MR 35x7.5 Slotted			MR 35x15 Slotted			Slotted			500 602			1m			Slotted			500 602			1m					
						MR 35x7.5			500 603			2m			MR 35x7.5			500 603			2m					
						Slotted			500 604			2m			Slotted			500 604			2m					
						MR 35x7.5			500 605			30cm			MR 35x7.5			500 605			30cm					
						MR 35x15			500 606			1m			MR 35x15			500 606			1m					
						Slotted			500 607			1m			Slotted			500 607			1m					
End Bracket			Thickness 8mm			MR 35 for BEIGE			KD 3			495 040			100			KD 3			495 040			100		
						MR 35 for BEIGE			KD 4			495 050			100			KD 4			495 050			100		
						MR 35 for GREY			KD 4			495 059			100			KD 4			495 059			100		
End Plate - Partition			Thickness 1.5mm			Polyamide 6.6			NPP 2.5-10			444 120			100			NPP 2.5-10			444 120			100		
			NPP			APP																				
									APP 2.5-10			462 120			25			APP 2.5-10			462 120			25		
Small Partition						GREY			AD 1			467 919			100			AD 1			467 919			100		
Cross Connection			UK 2.5/2			474 122			25			UK 4/2			474 132			25								
			UK 2.5/3			474 123			20			UK 4/3			474 133			20								
			UK 2.5/4			474 124			15			UK 4/4			474 134			15								
			UK 2.5/10			474 129			5			UK 4/10			474 139			5								
Test Plug / Ins. Test Soc.			TF (Ø 2)			493 020			5			TF (Ø 2.3)			493 023			5								
			TF (Ø 2.3)			493 023			5			TF (Ø 4)			493 040			5								
			ITK			490 010			5			TSK 4 (Ø 2.3)			490 040			5								
			TSK			490 030			5			TSK 7 (Ø 4)			490 070			5								
Warning Label			IP			with symbol			IP 2 S			498 130			25			IP 2 S			498 130			25		
						without symbol			IP 2			498 140			25			IP 2			498 140			25		
Group Marking			GE			GREY			GE			496 119			50			GE			496 119			50		
			GE 2						GE 2			496 250			25			GE 2			496 250			25		
Australian Stock			☑																							

AVK 6
Width 8mm
304 140



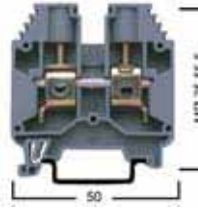
Torque: 0.8 Nm

AVK 10
Width 10mm
304 150



Torque: 1.2 Nm

AVK 16
Width 12mm
304 160



Torque: 1.2Nm

AVK 35
Width 16mm
304 170



Torque: 2.5Nm

AVK 70
Width 22mm
304 190



Torque: 6Nm

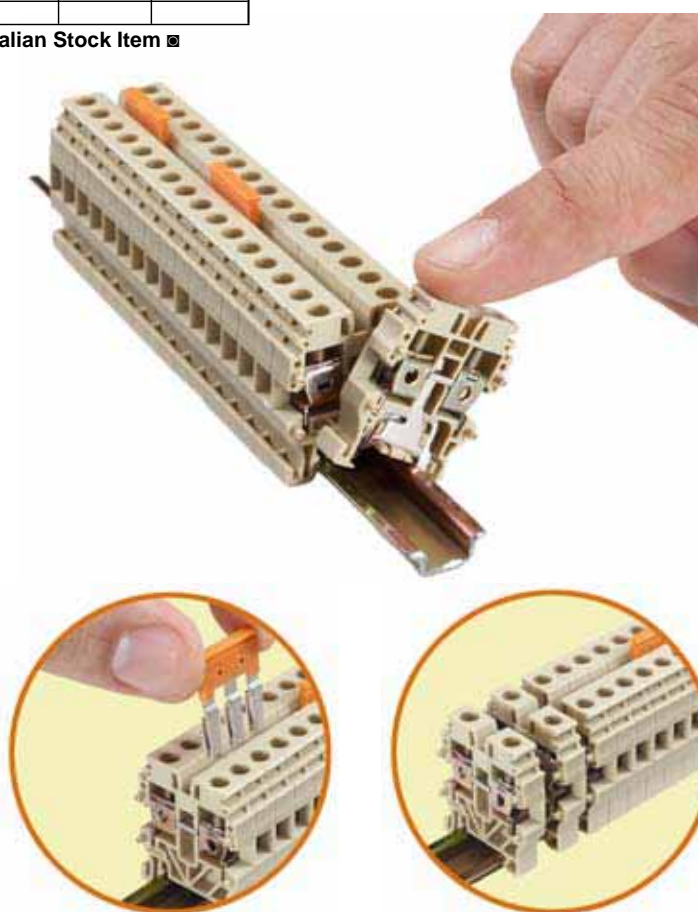
AVK 6			AVK 10			AVK 16			AVK 35			AVK 70					
750V ~ / 44 A / 6mm ²	750V ~ / 61 A / 10mm ²	750V ~ / 82 A / 16mm ²	750V ~ / 135 A / 35mm ²	750V ~ / 192 A / 70mm ²	630V ~ / 41 A / 6mm ²	630V ~ / 57 A / 10mm ²	630V ~ / 76 A / 16mm ²	630V ~ / 125 A / 35mm ²	630V ~ / 175 A / 70mm ²	600V ~ / 50 A / AWG 26-8	600V ~ / 65 A / AWG 16-6	600V ~ / 85 A / AWG 12-4	600V ~ / 115 A / AWG 8-2	600V ~ / 175 A / AWG 6-2/0			
630V ~ / 26 A / 6mm ²	500V ~ / 50 A / 10mm ²	630V ~ / 66 A / 16mm ²	630V ~ / 109 A / 35mm ²	1000V ~ / 167 A / 70mm ²	12mm	12mm	16mm	18mm	20mm	0.5 - 10mm ²	1.5 - 16mm ²	1.5 - 16mm ²	6 - 16mm ²	10 - 16mm ²			
1.5 - 6mm ²	1.5 - 10mm ²	1.5 - 16mm ²	10 - 35mm ²	10 - 70mm ²	26..... 8	16..... 6	14..... 4	8..... 2	6..... 2/0	Cat No.	QTY	Cat No.	QTY	Cat No.	QTY		
304 140	304 150	304 160	304 170	304 190	100	100	100	50	50	10							
TYPE	Cat No.	QTY	TYPE	Cat No.	QTY	TYPE	Cat No.	QTY	TYPE	Cat No.	QTY	TYPE	Cat No.	QTY	TYPE	Cat No.	QTY
MR 35x7.5	500 601	1m	MR 35x7.5	500 601	1m	MR 35x7.5	500 601	1m	MR 35x7.5	500 601	1m	MR 35x7.5	500 601	1m	MR 35x7.5	500 601	1m
Slotted	500 602	1m	Slotted	500 602	1m	Slotted	500 602	1m	Slotted	500 602	1m	Slotted	500 602	1m	Slotted	500 602	1m
MR 35x7.5	500 603	2m	MR 35x7.5	500 603	2m	MR 35x7.5	500 603	2m	MR 35x7.5	500 603	2m	MR 35x7.5	500 603	2m	MR 35x7.5	500 603	2m
Slotted	500 604	2m	Slotted	500 604	2m	Slotted	500 604	2m	Slotted	500 604	2m	Slotted	500 604	2m	Slotted	500 604	2m
MR 35x7.5	500 605	30cm	MR 35x7.5	500 605	30cm	MR 35x7.5	500 605	30cm	MR 35x7.5	500 605	30cm	MR 35x7.5	500 605	30cm	MR 35x7.5	500 605	30cm
MR 35x15	500 606	1m	MR 35x15	500 606	1m	MR 35x15	500 606	1m	MR 35x15	500 606	1m	MR 35x15	500 606	1m	MR 35x15	500 606	1m
Slotted	500 607	1m	Slotted	500 607	1m	Slotted	500 607	1m	Slotted	500 607	1m	Slotted	500 607	1m	Slotted	500 607	1m
KD 3	495 040	100	KD 3	495 040	100	KD 3	495 040	100	KD 3	495 040	100	KD 3	495 040	100	KD 3	495 040	100
KD 4	495 050	100	KD 4	495 050	100	KD 4	495 050	100	KD 4	495 050	100	KD 4	495 050	100	KD 4	495 050	100
KD 4	495 059	100	KD 4	495 059	100	KD 4	495 059	100	KD 4	495 059	100	KD 4	495 059	100	KD 4	495 059	100
NPP 2.5-10	444 120	100	NPP 2.5-10	444 120	100	NPP 16	444 160	100									
APP 2.5-10	462 120	25	APP 2.5-10	462 120	25	APP 16	462 160	25									
AD 1	467 919	100	AD 1	467 919	100												
UK 6/2	474 142	25	UK 10/2	474 152	25	UK 16/2	474 162	25	UK 35/2	474 172	25						
UK 6/3	474 143	20	UK 10/3	474 153	20	UK 16/3	474 163	20	UK 35/3	474 173	20						
UK 6/4	474 144	15	UK 10/4	474 154	15	UK 16/4	474 164	15	UK 35/4	474 174	15						
UK 6/10	474 149	5	UK 10/10	474 159	5	UK 16/10	474 169	5	UK 35/10	474 179	5						
TF (Ø 2.3)	493 023	5	TF (Ø 2.3)	493 023	5	TF (Ø 4)	493 040	5	TF (Ø 4)	493 040	5						
TF (Ø 4)	493 040	5	TF (Ø 4)	493 040	5												
TSK 4 (Ø 2.3)	490 040	5	TSK 4 (Ø 2.3)	490 040	5	TSK 8 (Ø 4)	490 080	5	TSK 9 (Ø 4)	490 090	5						
TSK 7 (Ø 4)	490 070	5	TSK 7 (Ø 4)	490 070	5												
ITK 28 (Ø 4)	492 010	5	ITK 28 (Ø 4)	492 010	5	ITK 32 (Ø 4)	492 020	5									
IP 2 S	498 130	25	IP 2 S	498 130	25	IP 2 S	498 130	25	IP 2 S	498 130	25						
IP 2	498 140	25	IP 2	498 140	25	IP 2	498 140	25	IP 2	498 140	25						
GE	496 119	50	GE	496 119	50	GE	496 119	50	GE	496 119	50	GE	496 119	50	GE	496 119	50
GE 2	496 250	25	GE 2	496 250	25	GE 2	496 250	25	GE 2	496 250	25						

MVK Type Mini Terminals for MR 15 Rails MVK Type Mini Earth Terminals for MR 15 Rails

Screw type mini terminals are designed as a result of the studies for the necessity of making terminal connections within enclosures which are getting smaller everyday. These terminals providing 2.5mm² and 4mm² cable connections are mounted on MR 15x5.5 mounting rails. Both cross sections have the same dimensions and a common end plate that can be used for all the range. The terminals are fixed to each other by the pins forming blocks and provide users the possibilities to make cross connections with the patented cross connection systems of YBK without keeping extra stock.

Colours	Terminals	End Plate
	Cat No.	Cat No.
	MVK 2.5	NPP MVK
GREY	304 429	444 429
BLUE	304 421	444 421
GREEN	304 422	444 422
YELLOW	304 423	444 423
RED	304 424	444 424
BEIGE	304 420	444 420
	MVK 4	NPP MVK
GREY	304 439	444 429
BLUE	304 431	444 421
GREEN	304 432	444 422
YELLOW	304 433	444 423
RED	304 434	444 424
BEIGE	304 430	444 420

Australian Stock Item



Electrical Ratings

Voltage / Current / Cross Section
Insulation Stripping Length

Connection Data

Solid Strand, Screw Connection
Fine Strand, Screw Connection
AWG Conductor

Ordering Data

Polyamide 6.6
BEIGE
GREY
YELLOW - GREEN

Mounting Rails

MR 15x5.5
MR 15x5.5 Slotted



End Bracket

Thickness 8mm
BEIGE
GREY



KD 5

End Plate

Thickness 1.5mm
Polyamide 6.6
BEIGE
GREY
GREEN



NPP MVK

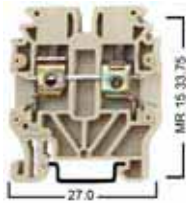
Cross Connection



Australian Stock

MVK 2.5

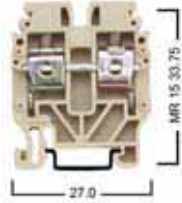
Width 5mm
304 420 BEIGE
304 429 GREY



Torque: 0.4 Nm

MVK 4

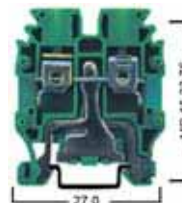
Width 6mm
304 430 BEIGE
304 439 GREY



Torque: 0.5 Nm

MVK 2.5T

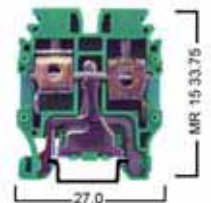
Width 5mm
334 420



Torque: 0.4Nm

MVK 4T

Width 6mm
334 430

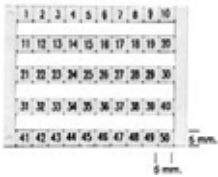


Torque: 0.5Nm

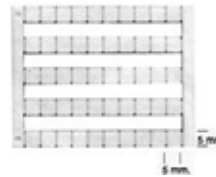
Torque: 0.4 Nm			Torque: 0.5 Nm			Torque: 0.4Nm			Torque: 0.5Nm		
400V ~ / 24 A / 2.5mm ²			400V ~ / 32 A / 4mm ²			- V ~ / - A / 2.5mm ²			- V ~ / - A / 4mm ²		
10mm			10mm			10mm			10mm		
0.5 - 4mm ²			0.5 - 6mm ²			0.5 - 4mm ²			0.5 - 6mm ²		
1.5 - 2.5mm ²			1.5 - 4mm ²			1.5 - 2.5mm ²			1.5 - 4mm ²		
26..... 12			26..... 10			26..... 12			26.... 10		
Cat No.	QTY		Cat No.	QTY		Cat No.	QTY		Cat No.	QTY	
304 420	100		304 430	100							
304 429	100		304 439	100		334 420	100		334 430	100	
TYPE	Cat No.	QTY	TYPE	Cat No.	QTY	TYPE	Cat No.	QTY	TYPE	Cat No.	QTY
MR 15x5.5	500 610	1m	MR 15x5.5	500 610	1m	MR 15x5.5	500 610	1m	MR 15x5.5	500 610	1m
Slotted	500 611	1m	Slotted	500 611	1m	Slotted	500 611	1m	Slotted	500 611	1m
MR 15x5.5	500 612	2m	MR 15x5.5	500 612	2m	MR 15x5.5	500 612	2m	MR 15x5.5	500 612	2m
Slotted	500 613	2m	Slotted	500 613	2m	Slotted	500 613	2m	Slotted	500 613	2m
KD 5	495 060	100	KD 5	495 060	100	KD 5	495 060	100	KD 5	495 060	100
KD 5	495 069	100	KD 5	495 069	100	KD 5	495 069	100	KD 5	495 069	100
NPP MVK	444 420	100	NPP MVK	444 420	100						
NPP MVK	444 429	100	NPP MVK	444 429	100	NPP MVKT	444 422	100	NPP MVKT	444 422	100
UK 2.5/2	476 222	25	UK 4/2	476 232	25						
UK 2.5/3	476 223	20	UK 4/3	476 233	20						
UK 2.5/4	476 224	15	UK 4/4	476 234	15						
UK 2.5/10	476 229	5	UK 4/10	476 239	5						

Feed-through Terminal Accessories Marking Tags

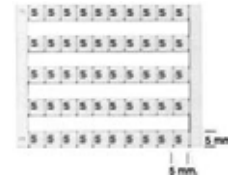
DY5 type



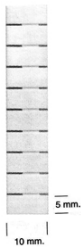
DB5 type



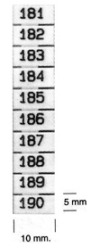
DYO 5 type



DB 10/5 type



DO 10/5 type



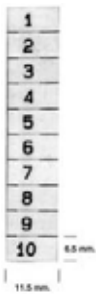
DB 10/6 type



DB 10/6 type



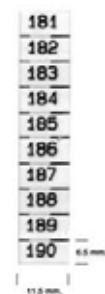
DY 10/6.5 type



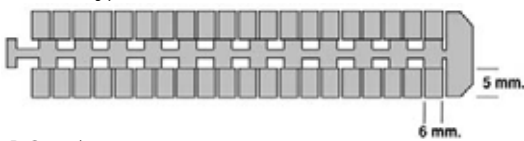
DB 10/6.5 type



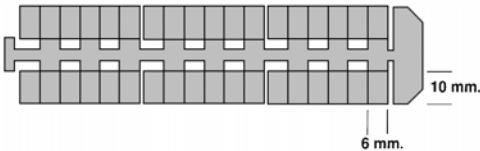
DO 10/6.5 type



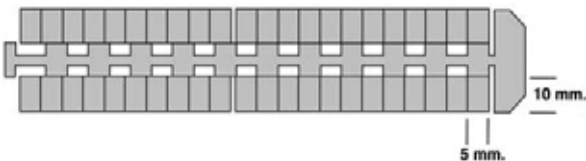
DG 5/6 type



DG 10/5 type



DG 10/6 type



Type	Description	Cat. No.	Qty.
DY 5	Standard Print	505 - - -	500
DYO 5	Special Print	505 605	500
DB 5	Without Print	505 850	500
DO 10/5	Special Print	505 710	500
DB 10/5	Without Print	505 910	500
DB 10/6	Without Print	505 915	500
DY 10/6.5	Standard Print	505 - - -	500
DO 10/6.5	Special Print	505 720	500
DB 10/6.5	Without Print	505 920	500
DG 5/6	Without Print	505 330	400
DG 10/5	Without Print	505 310	440
DG 10/6	Without Print	505 320	360

Type	Description	Cat. No.	Type	Description	Cat. No.
DY 5	0	505 000	DY 5	H	505 067
DY 5	1	505 001	DY 5	I	505 068
DY 5	2	505 002	DY 5	J	505 069
DY 5	3	505 003	DY 5	K	505 070
DY 5	4	505 004	DY 5	L	505 071
DY 5	5	505 005	DY 5	M	505 072
DY 5	6	505 006	DY 5	N	505 073
DY 5	7	505 007	DY 5	O	505 074
DY 5	8	505 008	DY 5	P	505 075
DY 5	9	505 009	DY 5	Q	505 076
DY 5	10	505 010	DY 5	R	505 077
DY 5	1-10	505 020	DY 5	S	505 078
DY 5	11-20	505 021	DY 5	T	505 079
DY 5	21-30	505 022	DY 5	U	505 080
DY 5	31-40	505 023	DY 5	V	505 081
DY 5	41-50	505 024	DY 5	W	505 082
DY 5	10-100	505 030	DY 5	X	505 083
DY 5	1-50	505 040	DY 5	Y	505 084
DY 5	51-100	505 041	DY 5	Z	505 085
DY 5	101-150	505 042	DY 5	L1	505 090
DY 5	151-200	505 043	DY 5	L2	505 091
DY 5	201-250	505 044	DY 5	L3	505 092
DY 5	251-300	505 045	DY 5	RSTN ±	505 093
DY 5	301-350	505 046	DY 5	Mp	505 094
DY 5	351-400	505 047	DY 5	+	505 095
DY 5	401-450	505 048	DY 5	-	505 096
DY 5	451-500	505 049	DY 5	±	505 097
DY 5	501-550	505 050			
DY 5	551-600	505 051			
DY 5	601-650	505 052	DY 10/6.5	1-10	505 201
DY 5	651-700	505 053	DY 10/6.5	11-20	505 202
DY 5	701-750	505 054	DY 10/6.5	21-30	505 203
DY 5	751-800	505 055	DY 10/6.5	31-40	505 204
DY 5	801-850	505 056	DY 10/6.5	41-50	505 205
DY 5	851-900	505 057	DY 10/6.5	51-60	505 206
DY 5	901-950	505 058	DY 10/6.5	61-70	505 207
DY 5	951-999	505 059	DY 10/6.5	71-80	505 208
DY 5	A	505 060	DY 10/6.5	81-90	505 209
DY 5	B	505 061	DY 10/6.5	91-100	505 210
DY 5	C	505 062			
DY 5	D	505 063			
DY 5	E	505 064			
DY 5	F	505 065			
DY 5	G	505 066			

Grafoplast



GRAFOPLAST marking tags are fully compatible with KLEMSAN terminal blocks.

www.grafoplast.it

KONFORMITÄTSBESCHEINIGUNG CERTIFICATE OF CONFORMITY

Nr./No.: 21120701

Für den Hersteller oder dessen Bevollmächtigten innerhalb der Europäischen Gemeinschaft
To the manufacturer or his authorized representative established within the European Community

KLEMSAN Elektrik Elektronik San. ve Tic. A.S.
Pinar Caddesi No. 84
35060 Pinarbasi Izmir
Turkey

Produktbezeichnung/Product

Reihenklennen für Kupferleiter
Terminal blocks for Copper Conductors

Typenbezeichnung/Type designation

AVK 2,5; AVK 4; AVK 6; AVK 10; AVK 16; AVK 35

Das genannte Produkt erfüllt die Schutzziele der EG-Richtlinie/
The designated product meets the essential safety requirements of the EC-Directive

Niederspannungsrichtlinie 73/23/EWG
Low-Voltage Directive 73/23/EEC

Die Übereinstimmung mit den Bestimmungen dieser Richtlinie wird durch die Einhaltung folgender Norm(en) nachgewiesen/
The conformity with the provisions of this directive is proved by the compliance with the following standard(s):

DIN EN 60947-7-1:2000-05

Voraussetzung für das Aufbringen des CE-Zeichens ist die Beachtung aller zutreffenden EG-Richtlinien und das Ausstellen einer CE-Konformitätserklärung durch den Hersteller oder dessen Bevollmächtigten innerhalb der Europäischen Gemeinschaft/
Placing the CE-Mark on a product requires the observance of all applicable EC-Directives and providing the CE-Declaration of Conformity by the manufacturer or his representative established within the European Community



Diese Bescheinigung gilt nur in Verbindung mit VDE Ausweis/
This certificate is valid only in conjunction with VDE Licence

Nr./No. 138854 ÜG; 139913 ÜG; 139735 ÜG; 139736 ÜG; 139795 ÜG; 139799 ÜG

Hirzenhain, 2001-12-07



Gerd Reichert

Klemsan

Electric&Electronic Inc.
Kemalpaşa yolu 3.km 35170
İZMİR - TURKEY



Concern:

Compliance with the European Directive 2002/95/EC "RoHS"

We declare that all our products are in compliance with the RoHS (Restriction of Hazardous Substances) directives and they don't contain lead (Pb), Chrome hexavalent (Cr+6), Mercury(Hg), Cadmium (Cd), PBB e PBDE.

A.Savaş YALÇIN
General Manager
İzmir, 25.01.2006

Klemsan

Electric Electronic Inc.
Kemalpaşa yolu 3.km 35170
İZMİR

Up to date list of our cULus and UL approved products
can be found in "www.ul.com"


Mustafa KAYA
Quality Manager





DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE


CERTIFICATE NO. E-6700
This Certificate consists of 3 pages

This is to certify that the
Terminal Block
with type designation(s)
PIK, PUK and AVK

Manufactured by
Klemsan A.S.
Izmir 35060, Turkey

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and
Mobile Offshore Units

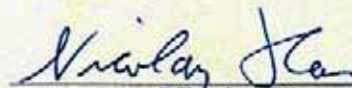
Place and date
Høvik, 2003-08-05
for DET NORSKE VERITAS AS


Gro Elisabeth Paulsrud
Head of Section



Local Office
DNV Istanbul

This Certificate is valid until
2007-12-31


Nicolay Horn
Surveyor

Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



1 **QUALITY ASSURANCE NOTIFICATION**

2 **Equipment and protective systems intended for use in**
3 **potentially explosive atmospheres Directive 94/9/EC**

3 Notification No. SIRA 03 ATEX M274

4 Equipment, protective system or components as listed in the schedule attached to this notification.

5 Applicant **Klemsan Elektrik Elektronik San.ve tic. A.S.**

Pinar Cad No 84
Pinarbasi
Izmir
35060 Turkey

6 Manufacturer As above

7 Sira Certification Service being a Notified Body No. 0518 for Annexes IV and VII in accordance with Article 9 of Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, notifies to the applicant that the manufacturer has a quality system which complies with the requirements of Annex VII of Directive 94/9/EC.

8 This notification is based upon Sira Audit Report No. AX 4594 issued on 27 June 2003.
This notification can be withdrawn if the manufacturer no longer satisfies the requirements of Annex VII.
Results of periodical re-assessment of the quality system form part of this notification.

9 This notification is valid until 27 June 2006 and can be withdrawn if the manufacturer does not satisfy the quality assurance re-assessment.

10 According to Article 10 [1] of directive 94/9/EC the CE marking shall be followed by the identification number 0518 of Sira Certification Service as the notified body involved in the production control stage.

Date of Issue: 16 July 2003
Page 1 of 2

Chief Executive

Sira Certification Service

South Hill · Chislehurst · Kent BR7 5EH · UK

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QUALITY ASSURANCE NOTIFICATION

SCHEDULE

Explosion protection concepts for which the manufacturer has been assessed

e Increased Safety

Equipment categories for which the manufacturer has been assessed

4 Enclosures, Terminal Boxes and Terminals

Notification No: SIRA 03 ATEX M274
Date of Issue: 16 July 2003
Page 2 of 2

Sira Certification Service

South Hill · Chislehurst · Kent BR7 5EH · UK

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ZEICHENGENEHMIGUNG MARKS APPROVAL

KLEMSAN Elektrik Elektronik
San. ve Tic. A.S.
Kemalpaşa Yolu 3. km
35170 IZMIR
TÜRKEI

ist berechtigt, für ihr Produkt /
is authorized to use for their product

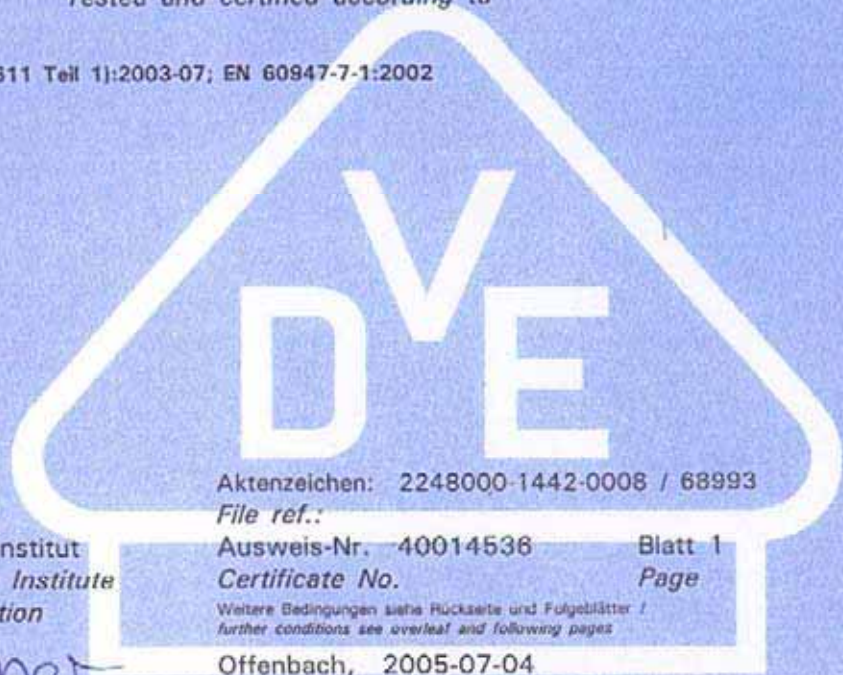
Durchgangs-Reihenklemme
Terminal block

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für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.



Geprüft und zertifiziert nach /
Tested and certified according to

DIN EN 60947-7-1 (VDE 0611 Teil 1):2003-07; EN 60947-7-1:2002



Aktenzeichen: 2248000-1442-0008 / 68993
File ref.:

Ausweis-Nr. 40014536 Blatt 1
Certificate No. Page

Weitere Bedingungen siehe Rückseite und Folgebblätter /
further conditions see overleaf and following pages

Offenbach, 2005-07-04
(letzte Änderung/updated 2006-01-18)

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