SCREW TECHNOLOGY 1 LEVEL FEED-THROUGH TERMINAL BLOCKS

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CESI 01 ATEX 090 U
I M2 Ex eb I Mb
II 2 G Ex eb IIC Gb

IECEx CES 09.0009U
Ex eb I Mb
Ex eb IIC Gb





BEIGE VERSION	PART NUMBER	**CB710**	**CB810**
	TYPE	CBD.50	CBD.70
BLUE VERSION	PART NUMBER	**CBX72**	**CBX82**
	TYPE	CBD.50 (EX)I	CBD.70 (EX)I
GREY VERSION	PART NUMBER	**CB710GR**	**CB810GR**
	TYPE	CBD.50/GR	CBD.70/GR

TECHNICAL CHARACTERISTICS

Function/type				Feed-through	Feed-through
Rated cross-section			(mm²)	50	70
Connecting capacity	Flexible		(mm²)	1.5 – 50	1.5 – 95
	Rigid		(mm²)	1 – 70	1 – 95
	Max. flexible with ferrule - ferrule type		(mm²)	50 - WP500/40	-
Electrical characteristics According to European standard IEC EN 60947-7-1	Max AC/DC Voltage		(V)	1000	1000
	Current with rated cross-section		(A)	150	192
	Section		Caliber	B9	B11
Electrical characteristics According to UL	Max AC/DC Voltage		(V)	600	600
	Current with rated cross-section		(A)	130	220
	Section Min-Max		(AWG)	16 - 1	12 - 4/0
	Tightening torque		(lb.in)	33.2	50
Electrical characteristics According to ATEX directive and IEC ex standard	Max AC/DC voltage with G32 rail / TH35 rail		(V)	630 / 630	630 / 630
	Current with rated cross-section		(A)	150	173
	Operating Temperature		(°C)	-40 ÷ +110	-40 ÷ +110
Rated impulse withstand voltage/pollution degree				12 KV / 3	12 KV / 3
Insulation stripping length			(mm)	22	26
Tightening torque nominal/max			(Nm)	2,5 / 5	3 / 8
Width			(mm)	18	20.5
Length			(mm)	57	62
Height mounted on TH35/7,5			(mm)	62	71
Height mounted on TH35/15			(mm)	70	79
Height mounted on G32			(mm)	66	75
Insulation material temperature index (EN 60216-1)			(°C)	130	130
Plastic material				Polyamide UL94 V0	Polyamide UL94 V0
APPROVALS					

ACCESSORIES

End section	Grey			CB50/PT/GR (cod. CB711GR)	CB70/PT/GR (cod.CB811GR)
	Blue			CB50/PT (Ex)i (cod. CBX73)	CB70/PT (Ex)i (cod. CBX83)
	Beige			CB50/PT (cod. CB711)	CB70/PT (cod. CB811)
	Thickness		(mm)	1.5	1.5
Cross connection	(1)			POF/07 (cod. POF07) - PFX/07 (cod. PFX07)	POF/08 (cod. POF08) - PFX/08 (cod. PFX08)
	Rated current / Rated current ATEX applications		(A)	150 / 150	192 / 155
Switchable cross connection				POS/77 (cod. POS77)	POS/08 (cod. POS08)
Multiple common bar	250 mm			PMP/07/14 (cod. PMP07) 14 poles	PMP/08/12 (cod.PMP08) 12 poles
Shunting screw and sleeve (same, Ex e version)				CPM/07 (cod. CPM07) - CPX/07 (cod. CPX07)	CPM/08 (cod. CPM08) - CPX/08 (cod. CPX08)
Coloured partition	Red			DFU/5/R (cod. DU05R)	DFU/6/R (cod. DU06R)
Cross connection barrier	Red			DFM/700 (cod. DF700)	DFM/700 (cod. DF700)
Test plug socket				PSD/C (cod. PD003)	PSD/C (cod. PD003)
Test plug				SDD/2 (cod. DD002)	SDD/2 (cod. DD002)
Modular test plug				-	-
End section for modular test plug				-	-
Adhesive numbering strip				TMM102105AW	TMM102105AW
Warning plate	on adjacent terminal blocks			TUM/07 on 3 and on 4 TUM07	TUM/08 on 3 and on 4 TUM08
Cover for cross-connection				PRP/8 (cod. PRP08)	PRP/8 (cod. PRP08)
Marking tag				CNU/8/51 (cod. NU0851S)	CNU/8/51 (cod. NU0851S)
				CNU/10/61 (cod. NU1061S)	CNU/10/61 (cod. NU1061S)
End bracket	Snap-fit TH35 and G32			BTU (cod. BT005)	BTU (cod. BT005)
	Snap-fit TH35			BTO (cod. BT007)	BTO (cod. BT007)
	Screw TH35			BT/3 (cod. BT003)	BT/3 (cod. BT003)
	Screw G32			BT/DIN/PO (cod. BT001)	BT/DIN/PO (cod. BT001)
Screening lug	(2)			-	-

HIGH CURRENT TERMINAL BLOCKS



CESI 13 ATEX 038 U
I M2 Ex eb I Mb
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IECEx CES 13.0012U
Ex eb I Mb
Ex eb IIC Gb

- Mounting for both PR/DIN and PR/3 rails which meet IEC 60715 norms, "G32" and TH/35 types
- Nominal voltage 1000 V
- Panel mount version
- Possibility of parallel cross connection
- Available in the /BB (bar-bar), /BC (bar-cable), /CC (cable-cable) versions
- Available in grey and beige
- Maximum continual operating temperature 130°C

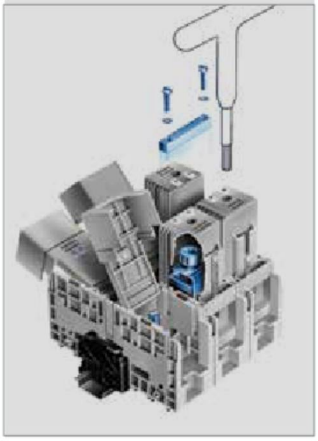
Tightening reliability: the reliability of the connection (wire terminal or bar) is guaranteed by a screw and locking nut, with the interposition of a flat washer and an elastic washer, useful above all for countering the effects of the dynamic stresses. In the versions made ready for clamping of the conductors, without preparation. The reliability of the connection is ensured by the action and the particular wrapping shape of the clamping clip, the elastic reaction of which to the force pressing down on the conductor works as a lock under the head of the clamping screw, stopping it from loosening, even in the presence of vibrations. The conductor bar is also made with an appropriate concave seat so as to increase the grip of the conductors; in addition both the contact surface of the clamping clip and the concave part of the bar feature, along the entire length, crosswise channels that help to improve the connection characteristics, as regards both the mechanical retention of the conductors and the electrical contact, guaranteeing low contact resistances.

- Protection for the "bar" versions: this protection which in the normal installation conditions has a longitudinal position with respect to the axis of the terminal block, can easily be rotated, using a simple screwdriver (as prescribed by the safety standards). In this way it is possible to access the connection unit to be able to work on the wire terminals or on the bars;
- Protection for the "cable" versions: in this case the protection is fixed and snaps in: its development is orthogonal to the axis of the terminal block and it protects the collar, the clip and the clamping screw. It is worth noting the "shutter" device, fitted on the protection in axis to the terminal block and in line with the conductor introduction hole, which enables, with manual action in maximum conditions of safety, partial or total closing of the hole itself and consequently protection of the live parts, in the case of use of conductors with a much smaller section than the nominal one or cabling of the terminal block from only one side.

Mounting: for these power terminal blocks, owing to the notable dimensions and because they are subject to high stresses due to the forces generated by the conductors, a new hooking system has been studied and created. This enables it to be mounted indifferently on the various types of standard mounting rail (IEC 60715). The terminal block is unhooked simply using a screwdriver, inserted in the special slot provided in the hooking system (yellow part). If the mounting rail itself is installed on a flat wall, the dimensions of the GPM terminal blocks make it indispensable to use flat brackets to space the terminal board from the surface adequately. For each terminal block of the Series the version for direct fixing to a panel (/FIX) is also available.

Marking: the GPM terminal blocks enable identification from both sides which can be done with both the CNU/8 (2 elements) and the CSC (up to 5 elements) type marking tags: the two possibilities are not alternatives, but can be combined.

Cross-connection: on this Series of terminal blocks it is also possible to create a cross connection between 2 or 3 adjacent terminal blocks using opportune cross connections; to insert this accessory it is necessary to remove the insulating baffle pre-engraved on the side wall of the insulating body.

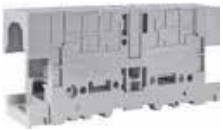


GPM SERIES — HIGH CURRENT TERMINAL BLOCKS

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- panel mount version - M6 screws (recommended with screwdriver and washer slot)
- possibility of parallel cross connection
- bolt-bolt connection





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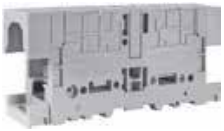
(1) See chapter accessories for more details

BEIGE VERSION			PART NUMBER TYPE	GP100 GPM.95/BB	GP110 GPM.95/BB/FIX
GREY VERSION			PART NUMBER TYPE	**GP100GR** GPM.95/BB/GR	**GP110GR** GPM.95/BB/FIX/GR
TECHNICAL CHARACTERISTICS					
Function/type				feed-through	feed-through
Rated cross-section			(mm²)	95	95
Connecting capacity	Flexible		(mm²)	-	-
	Rigid		(mm²)	-	-
Bars and/or cable lugs	Maximum width / bolt		(mm)	22 / M8	22 / M8
Electrical characteristics According to European standard IEC EN 60947-7-1	Max AC/DC Voltage		(V)	1000	1000
	Rated current with rated cross-section		(A)	232	232
	Max current with rated cross-section		(A)	320	320
	Section		Caliber	-	-
Electrical characteristics According to ATEX directive and IEC ex standard	Max AC/DC Voltage		(V)	630	630
	Current with rated cross-section		(A)	232	232
	Operating Temperature		(°C)	-40 ÷ +80	-40 ÷ +80
Rated impulse withstand voltage/pollution degree				12 KV / 3	12 KV / 3
Insulation stripping length			(mm)	-	-
Tightening torque nominal/max	Bar		(Nm)	6 / 9	6 / 9
	Cable		(Nm)	-	-
Width			(mm)	32	32
Length			(mm)	176	-
Height mounted on TH35/7,5			(mm)	81	-
Height mounted on TH35/15			(mm)	88	-
Height mounted on G32			(mm)	85	-
Height panel mount			(mm)	-	76
Length panel mount			(mm)	-	176
Fixing distance between centres			(mm)	-	158
Insulation material temperature index (EN 60216-1)			(°C)	130	130
Plastic material				Polyamide UL94 V0	Polyamide UL94 V0
APPROVALS					
ACCESSORIES					
Permanent cross connection	(1)			POF/95/... (cod. PO95...)	POF/95/... (cod. PO95...)
	Rated current		(A)	-	-
Mounting rail support	flat for PR/DIN e PR/3			ACI121213 (cod. Z121213)	ACI121213 (cod. Z121213)
	sloped for PR/DIN e PR/3			ACI121314 (cod. Z121314)	ACI121314 (cod. Z121314)
Marking tag				CNU/08/51 (cod. NU0851S)	CNU/08/51 (cod. NU0851S)
				CNU/10/61 (cod. NU1061S)	CNU/10/61 (cod. NU1061S)
End bracket	Snap-fit TH35 and G32			BTU (cod. BT005)	BTU (cod. BT005)
	Snap-fit TH35			BTO (cod. BT007)	BTO (cod. BT007)
	Screw TH35			BT/3 (cod. BT003)	BT/3 (cod. BT003)

HIGH CURRENT TERMINAL BLOCKS

- panel mount version - M6 screws (recommended with screwdriver and washer slot)
- possibility of parallel cross connection
- bolt-bolt connection





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BEIGE VERSION			PART NUMBER TYPE	GP400 GPM.150/BB	GP410 GPM.150/BB/FIX
GREY VERSION			PART NUMBER TYPE	**GP400GR** GPM.150/BB/GR	**GP410GR** GPM.150/BB/FIX/GR
TECHNICAL CHARACTERISTICS					
Function/type				feed-through	feed-through
Rated cross-section			(mm²)	150	150
Connecting capacity	Flexible		(mm²)	-	-
	Rigid		(mm²)	-	-
Bars and/or cable lugs	Maximum width / bolt		(mm)	32 / M10	32 / M10
Electrical characteristics According to European standard IEC EN 60947-7-1	Max AC/DC Voltage		(V)	1000	1000
	Rated current with rated cross-section		(A)	309	309
	Max current with rated cross-section		(A)	440	440
	Section		Caliber	-	-
Electrical characteristics According to ATEX directive and IEC ex standard	Max AC/DC Voltage		(V)	1000	1000
	Current with rated cross-section		(A)	309	309
	Operating Temperature		(°C)	-40 ÷ +80	-40 ÷ +80
Rated impulse withstand voltage/pollution degree				12 KV / 3	12 KV / 3
Insulation stripping length			(mm)	-	-
Tightening torque nominal/max	Bar		(Nm)	10 / 15	10 / 15
	Cable		(Nm)	-	-
Width			(mm)	42	42
Length			(mm)	200	-
Height mounted on TH35/7,5			(mm)	81	-
Height mounted on TH35/15			(mm)	88	-
Height mounted on G32			(mm)	85	-
Height panel mount			(mm)	-	76
Length panel mount			(mm)	-	200
Fixing distance between centres			(mm)	-	158
Insulation material temperature index (EN 60216-1)			(°C)	130	130
Plastic material				Polyamide UL94 V0	Polyamide UL94 V0
APPROVALS					
ACCESSORIES					
Permanent cross connection	(1)			PFX/150/... (cod. PX15...)	PFX/150/... (cod. PX15...)
	Rated current		(A)	-	-
Mounting rail support	flat for PR/DIN e PR/3			ACI121213 (cod. Z121213)	ACI121213 (cod. Z121213)
	sloped for PR/DIN e PR/3			ACI121314 (cod. Z121314)	ACI121314 (cod. Z121314)
Marking tag				CNU/08/51 (cod. NU0851S)	CNU/08/51 (cod. NU0851S)
				CNU/10/61 (cod. NU1061S)	CNU/10/61 (cod. NU1061S)
End bracket	Snap-fit TH35 and G32			BTU (cod. BT005)	BTU (cod. BT005)
	Snap-fit TH35			BTO (cod. BT007)	BTO (cod. BT007)
	Screw TH35			BT/3 (cod. BT003)	BT/3 (cod. BT003)

GPM SERIES — HIGH CURRENT TERMINAL BLOCKS

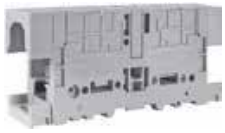
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- panel mount version - M6 screws (recommended with screwdriver and washer slot)
- possibility of parallel cross connection
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Ex e I Mb
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(1) See chapter accessories for more details

BEIGE VERSION			PART NUMBER TYPE	GP700 GPM.240/BB	GP710 GPM.240/BB/FIX
GREY VERSION			PART NUMBER TYPE	**GP700GR** GPM.240/BB/GR	**GP710GR** GPM.240/BB/FIX/GR
TECHNICAL CHARACTERISTICS					
Function/type				feed-through	feed-through
Rated cross-section			(mm²)	240	240
Connecting capacity	Flexible		(mm²)	-	-
	Rigid		(mm²)	-	-
Bars and/or cable lugs	Maximum width / bolt		(mm)	40 / M12	40 / M12
Electrical characteristics According to European standard IEC EN 60947-7-1	Max AC/DC Voltage		(V)	1000	1000
	Rated current with rated cross-section		(A)	415	415
	Max current with rated cross-section		(A)	600	600
	Section		Caliber	-	-
Electrical characteristics According to ATEX directive and IEC ex standard	Max AC/DC Voltage		(V)	1000	1000
	Current with rated cross-section		(A)	415	415
	Operating Temperature		(°C)	-40 ÷ +80	-40 ÷ +80
Rated impulse withstand voltage/pollution degree				12 KV / 3	12 KV / 3
Insulation stripping length			(mm)	-	-
Tightening torque nominal/max	Bar		(Nm)	14 / 21	14 / 21
	Cable		(Nm)	-	-
Width			(mm)	52	52
Length			(mm)	250	-
Height mounted on TH35/7,5			(mm)	89	-
Height mounted on TH35/15			(mm)	96	-
Height mounted on G32			(mm)	93	-
Height panel mount			(mm)	-	84
Length panel mount			(mm)	-	250
Fixing distance between centres			(mm)	-	172
Insulation material temperature index (EN 60216-1)			(°C)	130	130
Plastic material				Polyamide UL94 V0	Polyamide UL94 V0
APPROVALS					
ACCESSORIES					
Permanent cross connection	(1)			PFX/240/... (cod. PX24...)	PFX/240/... (cod. PX24...)
	Rated current		(A)	-	-
Mounting rail support	flat for PR/DIN e PR/3			ACI121213 (cod. Z121213)	ACI121213 (cod. Z121213)
	sloped for PR/DIN e PR/3			ACI121314 (cod. Z121314)	ACI121314 (cod. Z121314)
Marking tag				CNU/08/51 (cod. NU0851S)	CNU/08/51 (cod. NU0851S)
				CNU/10/61 (cod. NU1061S)	CNU/10/61 (cod. NU1061S)
End bracket	Snap-fit TH35 and G32			BTU (cod. BT005)	BTU (cod. BT005)
	Snap-fit TH35			BTO (cod. BT007)	BTO (cod. BT007)
	Screw TH35			BT/3 (cod. BT003)	BT/3 (cod. BT003)