ITEC.BAR™ GT

High currents low voltage busducts

Genset connections
Connecting transformer - low voltage panels
High current busducts for industry or buildings

Markets :

- HV/LV substations, prefabs substations, ...
- Environment : waste recovery, wastewater treatment plants, biogas, ...
- Data centers, telephone exchanges, ...
- Public buildings : hospitals, stadiums, shopping centres, airports, prisons, ...
- Industries : glass, chemical, petrochemical, pharmaceutical, steel works, paper, agribusiness, ...
- Power generation : thermal and nuclear power stations, wind farms, photovoltaic plants, cogeneration plant, ...

Main Features

Ready to install busducts, delivered with technical data sheet, drawing, installation and maintenance manual.

Layout exactly customized to each project.

Non-segregated phases busducts which combines ease of installation and low reactive drops.

Conductors in electrolytical copper Cu-ETP for ITEC.BAR™ GTC **or in aluminium E-AlMgSi** for ITEC.BAR™ GTA.

Covers in aluminium 1050, for an optimum protection and the limitation of electromagnetical effects in the busduct environment.

Flexible end connections made in insulated flexible laminated bars in copper or tinned aluminium for adjustable, quick and secure joint on devices.

Protection of flexible end connections with bellows to make easier the position adjustments during installation and to prevent the propagation of vibrations to the busduct.

Busduct **elements fitted out with metallic rails** to enable supporting at different points.

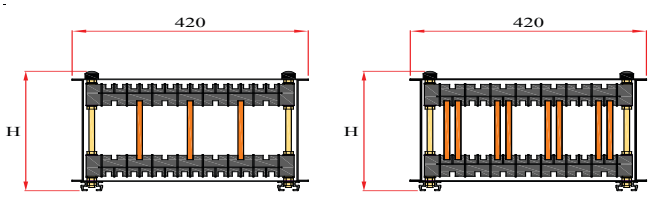
Withstand short circuit current adapted to the project requirement.

Numerous adaptations to the conditions of installation (wheather, temperature, particular constraints, corrosive atmosphere, fire-break element, etc.).

In accordance with the following standards : IEC 61439-1, IEC 64439-6, IEC 60664, IEC 60529, IEC 60068-2-11, IEC60068- 2-52, ...

Can be turnkey installed by our specialized services.

ITEC.BAR™ GT
Our standard range



ITEC.BAR™ GTC : copper conductors Cu-ETP

Rated current 50 - 60 Hz A		Configuration	Dimension of phases bars mm	Cross section of a phase mm²	Neutral cross section mm²	Overall dimensions		Short circuit currents		Linear weight		
						L	H	I_{pk}	I_{thr} 1 s	IP 00	IP 31	IP 55
IP 00 / 31	IP 42 / 55					mm	mm	kA	kA			kg
1250	1000	TRI	50 x 10	500	/	420	210	85	35	17	23	24
		TRI + N			500					22	28	29
1800	1500	TRI	80 x 10	800	/	420	240	112	56	26	32	33
		TRI + N			800					33	39	40
2150	1800	TRI	100 x 10	1000	/	420	260	129	70	31	37	38
		TRI + N			1000					40	46	47
2500	2150	TRI	120 x 10	1200	/	420	280	143	84	37	43	44
		TRI + N			1200					47	54	55
3200	2500	TRI	160 x 10	1600	/	420	320	173	112	48	55	56
		TRI + N			1600					62	69	70
4000	3200	TRI	200 x 10	2000	/	420	360	194	140	59	66	67
		TRI + N			2000					76	84	85
4500	3400	TRI	2 x 120 x 10	2400	/	420	280	175	168	69	75	76
		TRI + N			2400					90	97	98
5300	4300	TRI	2 x 160 x 10	3200	/	420	320	228	225	90	97	98
		TRI + N			3200					119	126	127
6500	5100	TRI	2 x 200 x 10	4000	/	420	360	273	281	112	119	120
		TRI + N			4000					148	155	156

ITEC.BAR™ GTA : aluminium conductors E-AlMgSi

Rated current 50 - 60 Hz A		Configuration	Dimension of phases bars mm	Section d'une phase mm²	Neutral cross section mm²	Overall dimensions		Short circuit currents		Linear weight		
						L	H	I_{pk}	I_{thr} 1 s	IP 00	IP 31	IP 55
IP 00 / 31	IP 42 / 55					mm	mm	kA	kA			kg
1500	1250	TRI	80 x 10	800	/	420	240	72	37	11	17	18
		TRI + N			800					13	19	20
1800	1500	TRI	100 x 10	1000	/	420	260	83	46	13	19	20
		TRI + N			1000					15	22	23
2100	1800	TRI	120 x 10	1200	/	420	280	93	56	14	21	22
		TRI + N			1200					18	24	25
2500	2150	TRI	160 x 10	1600	/	420	320	112	74	18	25	26
		TRI + N			1600					22	29	30
3200	2600	TRI	200 x 10	2000	/	420	360	131	93	21	29	30
		TRI + N			2000					27	34	35
3500	3000	TRI	2 x 120 x 10	2400	/	420	280	114	111	24	31	32
		TRI + N			2400					31	37	38
4300	3500	TRI	2 x 160 x 10	3200	/	420	320	148	148	31	38	39
		TRI + N			3200					39	46	47
5100	4200	TRI	2 x 200 x 10	4000	/	420	360	178	185	38	45	46
		TRI + N			4000					48	56	57

Nota : I_{pk}: rated peak withstand current is the instant mechanical resistance during a three-phase short-circuit.
I_{thr} 1s is the thermal resistance for a period of time during a three-phase short-circuit. These 2 values are depending of the design and cannot be modified.

Installation conditions :

- Altitude lower than 2000 metres
- Average ambiant air température over 24 hours: 35°C, maximum 40°C for 2 hours, elative humidity from 0 to 100% at 20°C
- Alternative current, frequency 50 / 60 Hz
- Rated insulation voltage U_i < 1000 volts

OTHER INTENSITIES OR CONFIGURATIONS
MAY BE SUPPLIED ON REQUEST