

Miniature circuit breakers A

Residual current circuit breaker B

***Busbar systems* C**

- C.3 Busbar system for MCB's
- C.4 Insulated PIN type busbars
- C.6 Insulated FORK type busbars
- C.8 Accessories

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Residential enclosures E

Contactors/Soft starters/Speed drives F

Overload relays G

Control and signalling units H

Limit switches I

Manual motor starters J

Moulded case circuit breakers K

Air circuit breakers L

Fuse systems/Loadbreak disconnectors M

Industrial enclosures N

Wiring devices X

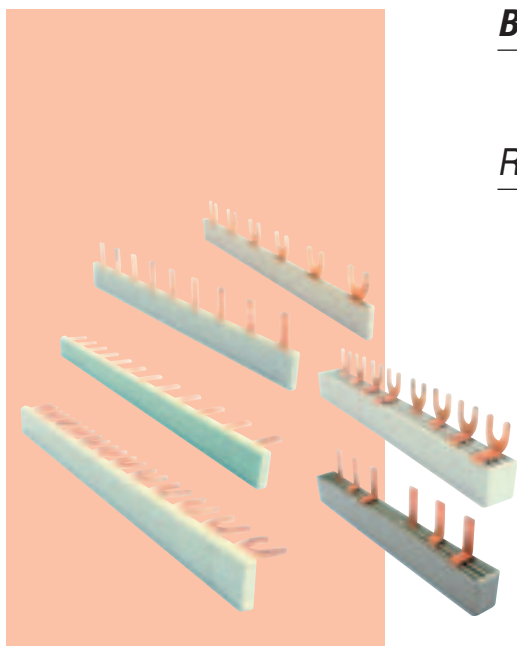
Numerical index X

Notes

A large grid area for taking notes, consisting of a 30x30 grid of small squares. The grid is empty and occupies the majority of the page.

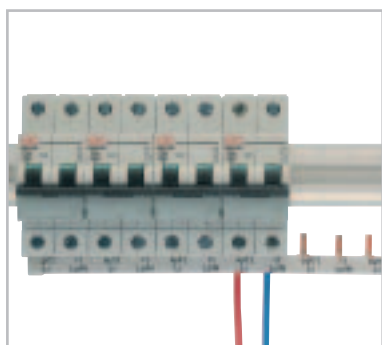
Busbar system

Rails



Technical data

Rail	copper (oxygen free)
Insulation strip	plastic heat resistant > 96 °C self extinguishing V0
Dielectric strength	36kV/mm (acc. to DIN 53481/1.2)
Short-circuit resistance	25kA (100A fuse)
Climate proofing	according to IEC 60068-2-30
Creepage resistance/tracking index	400V (acc. to IEC 60112)
Insulation group acc. to EN 60439-1	Material group II, 400V



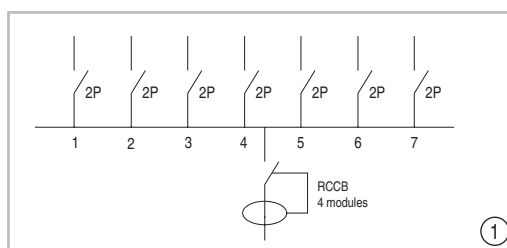
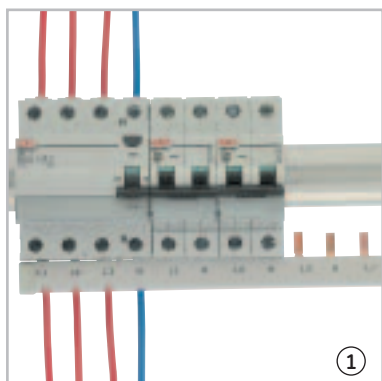
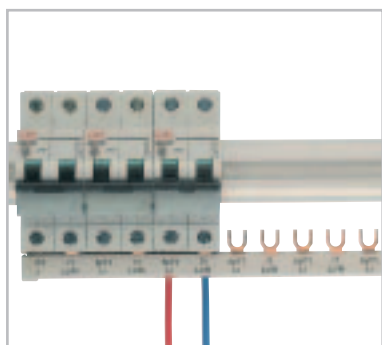
Load values in A (Ith)

Connection	1 pole			
	side		middle	
Section (mm ²)	Ith (A)	K (mm ²)	Ith (A)	K (mm ²)
10 isolated	80	10	100	25
12 non isolated	90	16	110	35
16 non isolated	110	25	130	35
24 non isolated	160	25	180	2x25
36 non isolated	200	35	220	2x35

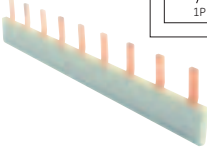

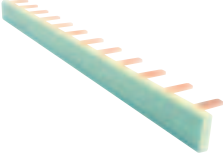
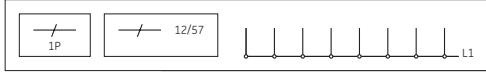
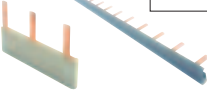

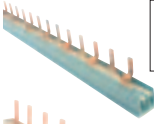
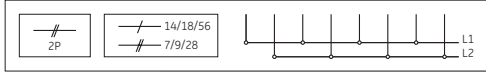
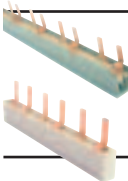
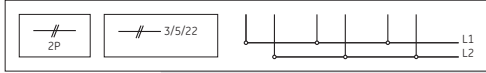
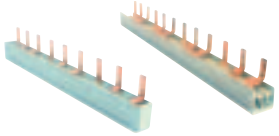
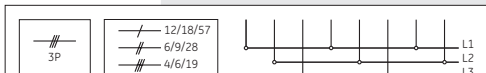
Connection	n poles			
	side		middle	
Section (mm ²)	Ith (A)	K (mm ²)	Ith (A)	K (mm ²)
10 isolated	80	16	100	25
16 isolated	120	25	130	35


K = section of the connection wire

n = 2P, 1P + N, 3P, 3P + N, 4P

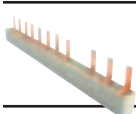

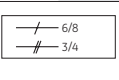

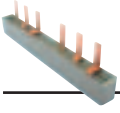

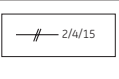

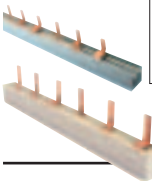

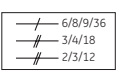
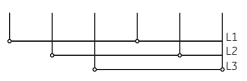
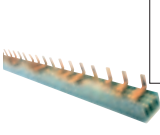

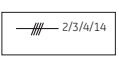
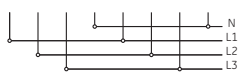
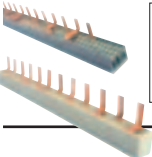

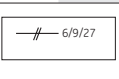
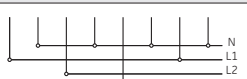
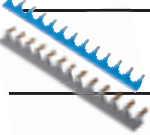

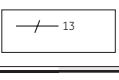

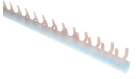

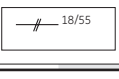
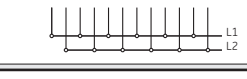
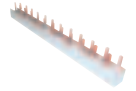

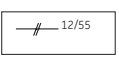
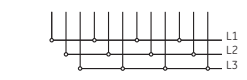
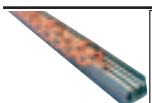

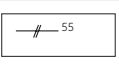
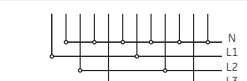
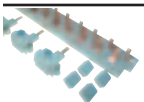

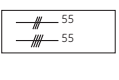
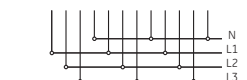



Insulated PIN type busbars

		Section mm ²	Description	Ref. No.	Pack.
1-phase					
		10	2x1P	546253	10
		10	6x1P	546254	10
		10	12x1P	546255	10
		10	13x1P	650156	10
		10	57x1P - length 1m	624991*	1/10
		16	57x1P - length 1m	544193*	1/10
1-phase 90°					
		10	3x1P - 90°	624959	20
		10	4x1P - 90°	624960	20
		10	5x1P - 90°	624961	20
		10	6x1P - 90°	624962	20
		10	7x1P - 90°	624963	20
		10	8x1P - 90°	624964	20
		10	9x1P - 90°	624965	20
		10	10x1P - 90°	624966	20
		10	11x1P - 90°	624967	20
		10	12x1P - 90°	624968	20
		10	13x1P - 90°	624969	20
		10	14x1P - 90°	624970	20
		10	15x1P - 90°	624971	20
		10	16x1P - 90°	624972	20
10	17x1P - 90°	624973	20		
10	18x1P - 90°	624974	20		
1-phase with 1P + auxiliary					
		10	2 x (1P + auxiliary)	546256	10
		10	6 x (1P + auxiliary)	546257	10
		10	8 x (1P + auxiliary)	546237	10
		10	36 x (1P + auxiliary) or MCB's Hti - length 1m	546152*	1/50
		16	36 x (1P + auxiliary) or MCB's Hti - length 1m	624994*	1/50
		2-phase			
		10	4x1P or 2x2P	546265	10
		10	6x1P or 3x2P	546266	10
		10	12x1P or 6x2P	546267	10
		10	14x1P or 7x2P	544186	10
		10	18x1P or 9x2P	624805	10
		16	14x1P or 7x2P	618294	20
16	56x1P or 28x2P - length 1m	546139*	1/20		
2-phase with 2P + auxiliary					
		10	3 x (2P + auxiliary)	546269	10
		10	5 x (2P + auxiliary)	546270	10
		16	22 x (2P + auxiliary) - length 1m	546126*	1/20
3-phase					
		10	6x1P or 3x2P or 2x3P	546277	10
		10	9x1P or 4x2P or 3x3P	546308	10
		10	12x1P or 4x3P or 3x4P	546278	10
		10	15x1P or 5x3P	544180	10
		10	18x1P or 6x3P	544181	10
		10	21x1P or 7x3P	544182	10
		10	24x1P or 12x2P or 8x3P	624839	20
		10	57x1P or 28x2P or 19x3P - length 1m	546142*	1/20
		16	57x1P or 28x2P or 19x3P - length 1m	546143*	1/20

* Rails with 1m length can be shortened 

Insulated PIN type busbars (continued)

		Section mm ²	Description	Ref. No.	Pack.
3-phase for screwless MCB's Fixwell™					
	  	10	1xRCD + 6x1P or 3x2P	544183	10
		10	1xRCD + 8x1P or 4x2P	544184	10
3-phase with 2P + auxiliary					
	  	10	2 x (3P + auxiliary)	555434	10
		10	4 x (3P + auxiliary)	555435	10
		10	15 x (3P + auxiliary) - length 1m	544195*	1/20
3-phase with 1P + auxiliary					
	  	10	6 x (1P + auxiliary) or 6x1P MCB's Hti or 3x2P MCB's Hti or 2x3P MCB's Hti	546396	10
		10	8 x (1P + auxiliary) or 8x1P Hti MCB or 4x2P Hti MCB	544185	10
		10	9 x (1P + auxiliary) or 3x3P MCB's Hti	546397	10
		10	36 x (1P + auxiliary) or 18x2P Hti MCB or 12x3P Hti MCB - length 1m	546128*	1/20
4-phase 4P or 3P+N					
	  	10	2x4P or 2x3P+N	546282	5
		10	3x4P or 3x3P+N	546283	5
		10	4x4P or 4x3P+N	544187	5
		10	14x4P or 14x3P+N - length 1m	624807*	1/15
		16	14x4P or 14x3P+N - length 1m	546130*	1/15
4-phase 1P+N or 2P					
	  	10	6x1P+N or 6x2P	546284	5
		10	9x1P+N or 9x2P	546285	5
		10	27x1P+N or 27x2P - length 1m	624995*	1/15
		16	27x1P+N or 27x2P - length 1m	624996*	1/15
1-phase 90° for compact MCB's Unibis™					
	  	10	13x1P - 90° - grey	646091	15
		10	13x1P - 90° - blue	646092	15
1-phase+N / 2P for compact MCB's Unibis™					
	  	10	18x1P+N / 2P	624796	20
		10	55x1P+N / 2P - length 1m	624893*	1/20
3-phase for compact MCB's Unibis™					
	  	10	12x2P	624797	15
		10	55x2P - length 1m	624798*	1/15
4-phase 1P+N or 2P for compact MCB's Unibis™					
	  	10	55x2P - length 1m	624892*	1/10
4-phase 4P or 3P+N for compact MCB's Unibis™					
	  	10	55x3P or 4P - length 1m incl. 4 end caps and 4 connection clamps	624800*	1/5

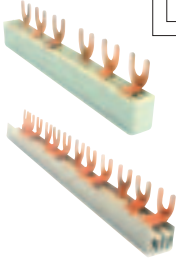
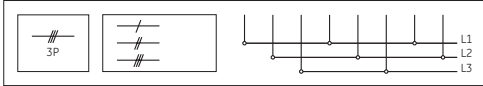
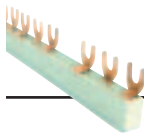
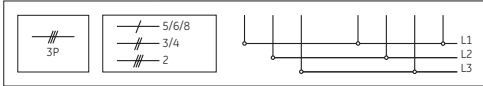
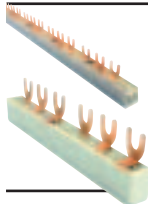
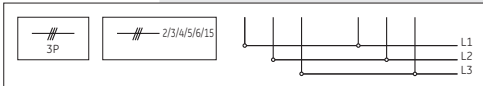
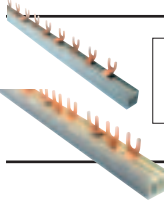
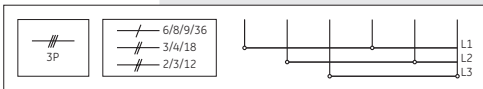
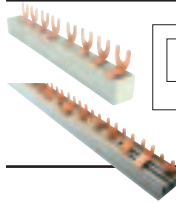
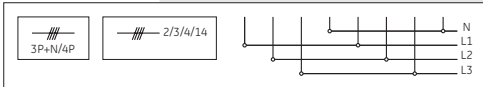
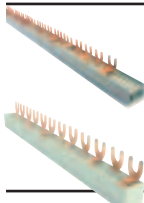
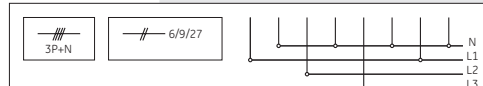
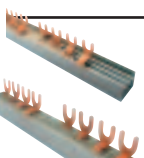
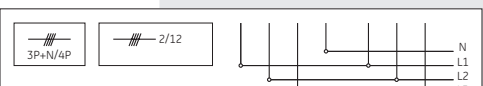
* Rails with 1m length can be shortened 


Insulated FORK type busbars

	Section mm ²	Description	Ref. No.	Pack.	
1-phase					
	10	2x1P	546247	20	
	10	3x1P	644873	20	
	10	4x1P	546341	20	
	10	5x1P	650164	20	
	10	6x1P	546248	20	
	10	12x1P	546249	20	
	10	13x1P	650152	20	
	10	57x1P - length 1m	546187*	1/10	
	16	57x1P - length 1m	544188*	1/10	
	1-phase 90°				
	10	2x1P - 90°	624975	20	
	10	4x1P - 90°	624976	20	
	10	5x1P - 90°	624977	20	
	10	6x1P - 90°	624978	20	
	10	7x1P - 90°	624979	20	
	10	8x1P - 90°	624980	20	
	10	9x1P - 90°	624981	20	
	10	10x1P - 90°	624982	20	
	10	11x1P - 90°	624983	20	
	10	12x1P - 90°	624984	20	
	10	13x1P - 90°	624985	20	
	10	14x1P - 90°	624986	20	
	10	15x1P - 90°	624987	20	
	10	16x1P - 90°	624988	20	
	10	17x1P - 90°	624989	20	
	10	18x1P - 90°	624990	20	
	16	57x1P - 90° - length 1m	644890*	1/50	
	10	2x1P - 90° for surge arresters SurgeGuard	624993	20	
	10	3x1P - 90° for surge arresters SurgeGuard	644893	20	
10	4x1P - 90° for surge arresters SurgeGuard	568106	20		
10	8x1P - 90° for surge arresters SurgeGuard	644897	20		
1-phase with 1P + auxiliary					
	10	2 x (1P + auxiliary)	546250	20	
	10	3 x (1P + auxiliary)	644875	20	
	10	4 x (1P + auxiliary)	644876	20	
	10	5 x (1P + auxiliary)	644877	20	
	10	6 x (1P + auxiliary)	546251	20	
	10	8 x (1P + auxiliary)	546295	20	
	10	9 x (1P + auxiliary)	546252	20	
1-phase with 1P + auxiliary 90°					
	10	2 x (1P + auxiliary) - 90°	544272	20	
	10	7 x 1P + auxiliary) - 90°	544277	20	
	10	13 x (1P + auxiliary) - 90°	544296	50	
	10	14 x (1P + auxiliary) - 90°	644879	20	
	10	15 x (1P + auxiliary) - 90°	644880	20	
	16	15 x (1P + auxiliary) - 90°	544327	20	
	10	37 x (1P + auxiliary) - 90° - length 1m	546197*	1/50	
	16	37 x (1P + auxiliary) - 90° - length 1m	544189*	1/50	
2-phase					
	10	4x1P or 2x2P	546259	10	
	10	6x1P or 3x2P	546260	10	
	10	10x1P or 5x2P	644881	10	
	10	12x1P or 6x2P	546261	10	
	10	14x1P or 7x2P	544178	10	
	10	18x1P or 9x2P	644882	10	
	10	56x1P or 28x2P - length 1m	544191*	1/20	
	16	56x1P or 28x2P - length 1m	546227*	1/20	
	2-phase with 2P + auxiliary				
		10	2 x (2P + auxiliary)	546262	10
10		3 x (2P + auxiliary)	546263	10	
10		4 x (2P + auxiliary)	544344	10	
10		5 x (2P + auxiliary)	546264	10	
16		22 x (2P + auxiliary) - length 1m	546125*	1/20	




* Rails with 1m length can be shortened

Insulated FORK type busbars (continued)

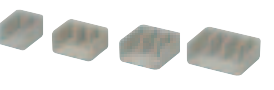
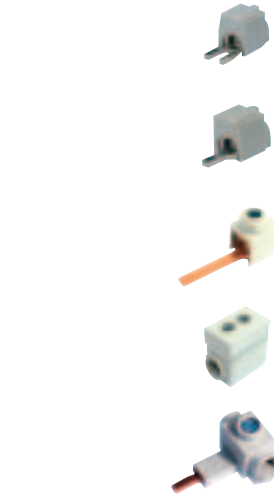



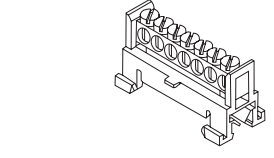
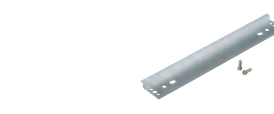

		Section mm ²	Description	Ref. No.	Pack.
3-phase					
		10	6x1P or 3x2P or 2x3P	546271	10
		10	7x1P	624957	10
		10	9x1P or 3x3P	546296	10
		10	12x1P or 6x2P or 4x3P	546272	10
		10	13x1P	650153	10
		10	14x1P or 7x2P	650154	10
		10	15x1P or 5x3P	544172	10
		10	18x1P or 9x2P or 6x3P	544173	10
		10	21x1P or 7x3P	544174	10
		10	24x1P or 12x2P or 8x3P	624958	20
		10	57x1P or 28x2P or 19x3P - length 1m All forks on the lateral side of the busbar	546229*	1/20
		16	57x1P or 19x3P - length 1m All forks in the middle of the busbar	546176*	1/20
		16	57x1P or 28x2P or 19x3P - length 1m All forks in the middle of the busbar	546230*	1/20
3-phase RCD's					
		10	1xRCD + 5x1P	555609	10
		10	1xRCD + 6x1P or 3x2P or 2x3P	544175	10
		10	1xRCD + 8x1P or 4x2P	544176	10
3-phase with 3P + auxiliary					
		10	2 x (3P + auxiliary)	546273	10
		10	3 x (3P + auxiliary)	644884	10
		10	4 x (3P + auxiliary)	546274	10
		10	5 x (3P + auxiliary)	644885	10
		10	6 x (3P + auxiliary)	644886	10
		16	15 x (3P + auxiliary) - length 1m	546129*	1/20
3-phase with 1P + auxiliary					
		10	6 x (1P + auxiliary) or 6x MCB's Hti	546275	10
		10	8 x (1P + auxiliary) or 8x MCB's Hti	544177	10
		10	9 x (1P + auxiliary) or 9x MCB's Hti	546276	10
		16	36 x (1P + auxiliary) - length 1m	546127*	1/20
		4-phase 4P or 3P+N			
		10	2x4P or 2x3P+N	546279	5
		10	3x4P or 3x3P+N	546280	5
		10	4x4P or 4x3P+N	544179	5
		10	14x4P or 14x3P+N - length 1m	618293*	1/15
		16	14x4P or 14x3P+N - length 1m	546234*	1/15
4-phase 1P+N or 2P					
		10	6x1P+N or 6x2P	546398	5
		10	9x1P+N or 9x2P	546281	5
		10	2xAdd on 32A +4P	546228	5
		10	27x1P+N or 27x2P - length 1m	624799*	1/15
		16	27x1P+N or 27x2P - length 1m	544192*	1/15
4-phase with 4P + auxiliary					
		10	2 x (4P + auxiliary) or 2 x (3P+N + auxiliary)	646084	5
		16	12 x (4P + auxiliary) or 12 x (3P+N + auxiliary) - length 1m	646083*	1/15

* Rails with 1m length can be shortened 

Busbars for connection of auxiliaries

	Section mm ²	Description	Ref. No.	Pack.
	For auxiliary function added on 1P MCB			
	27mm / 8P		546244	10
	27mm / 4P		544346	10
	For auxiliary function added on 2P MCB			
	45mm / 5P		546245	10
	45mm / 4P		544347	10
	For auxiliary function added on 3P MCB			
	63mm / 4P		546246	10

Accessories

	End caps			
	10/16	for 1P busbars	644891	50
	10	for 2P busbars	546181	10
	10	for 3P busbars	546200	10
	16	for 2P and 3P busbars	546184	10
	Connection clamps			
	25	fork	546287	30
	25	pin	546288	30
	25	pin long	546289	50
	35	for fork and pin direct on busbar	546290	10
	25	4P compact MCB's Unibis™	624795	30
	Insulation cap			
		Pin/fork - Yellow (RAL 1004)	546291	10
Insulation strip				
		For fork and pin - length 1m	624992	10
Clamps for neutral conductor				
	16	7 poles	546297	10
	16	12 poles	546298	10
	16	12 poles, insulated	568083	10
	16	15 poles	546299	10
Clamps for phase conductors				
	16	7 poles	546300	10
	16	12 poles	546301	10
	16	12 poles, insulated	568084	10
	16	15 poles	546302	10
DIN-rail (EN 50022)				
		Length 1000mm - Height 7mm	564092	10

