Household switchboards

Domae





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Domae

A manufacturer's know-how...

Safety of people and equipment is top on the list of priorities for electrical installation professionals who must demand products designed and produced by a manufacturer, guaranteeing:

- compliance with electrical switchgear manufacturing standards,
- a high performance industrial process, producing quality switchgear complete with their quality certificates.

Conform to European and international standards



Merlin Gerin guarantees conformity of Domae products to European and international standards for construction of equipment intended for domestic and similar installations:

EN 60898 - IEC 60898:

"Overcurrent protection circuit-breakers".

EN 61008 - IEC 61008:

"Automatic residual current circuit-breakers".

EN 61095 - IEC 61095:

"Electromechanical contactors".

EN 61669 -2 -2 - IEC 61669 -2 -2:

"Electromagnetic remote control switches (impulse relays)" a specific specification taken from the "Fixed installation switch" standard.

■ IEC 61643 -1:

"Overvoltage protection devices connected to LV distribution networks".

■ IEC 60670:

"General rules concerning switchgear enclosures for fixed electrical installations for household or similar use".

Install according to proper practices

Standard EN 60364 - IEC 60364

"Electrical installation in buildings" defines switchgear installation rules.

The installation diagrams and recommendations proposed in this guide conform to this standard.

For Domae, ISO 9001/2000 certified production plants



Benefiting from the international experience of the 26 Merlin Gerin modular switchgear development and production plants, the Domae switchgear are all produced in ISO 9001/2000 certified plants.

Fom design through to dispatch, ISO certification guarantees professional organisation and consistent quality of products.





Guaranteed Quality

Domae : Aenor \\` approved

The quality marks prove product conformity to their reference standard. They guarantee:

- safety of installers,
- suitability of products for their use.

Merlin Gerin guarantees that all Domae switchgear will have the Anenor $\ensuremath{\mathbb{N}}$ quality mark.

This approval was awarded on completion of tests performed in an approved laboratory in the presence of independent third parties. This third-party organisation monitors conformity to the quality mark by means of new tests conducted after random sampling.





For electrocution protection:

Domae residual current circuit-breakers









For short-circuit and overload protection: Domae circuit-breakers For control: Domae switches









For quick connection: Domae comb busbars

For easy installation: Disbo, Multi 9 metal enclosures and Mini Pragma enclosures



For lightning protection: Surge arresters





For audible indication:
Bells
For remote control:
Impulse relay and contactor

CE marking

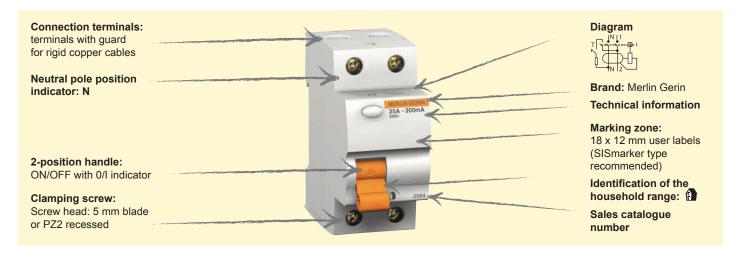
An administrative formality for free movement and sales on the European Union territory.

Made compulsory by European directives, CE marking of Domae products satisfies both administrative and legal requirements: intended for European supervisory authorities (customs), the "CE marking" declarations and files are prepared under the manufacturer's sole responsibility and undergo no conformity checking by a third-party organisation.

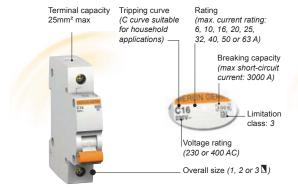
Only the quality marks, issued and checked by an independent third-party organisation, provide complete guarantee of operation, compatibility and safety according to national and international standards.



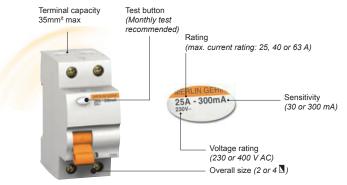
Domae products can be easily identified by their new design



Domae circuit-breaker



Domae residual current circuit-breaker



Domae comb busbar



Surge arrester, Contactor, Impulse relay

To perform lightning protection and remote functions, surge arresters, impulse relays and contactors can be incorporated in all *Mini Pragma* switchboards.



.... adapted solutions

Disbo Extra Enclosures

There is at least one **Disbo** *Extra*™ Single Phase that meets your requirement

Where safety meets design

The new electrical distribution board **Disbo** $Extra^{TM}$ Single Phase consists of a range of metallic enclosures with renewed design and more safety. **Disbo** $Extra^{TM}$ Single Phase is specially suited for housing and commercial buildings.

Disbo $Extra^{TM}$ Single Phase in all aspects from design, safety and installation.

Disbo $Extra^{TM}$ Single Phase can easily be recognised with its unique and attractive front cover with 5 different colors end caps.

Disbo Extra™ Single Phase provides optimum protection for both installers and end-users.

Ergonomics and accessibility

Disbo $Extra^{TM}$ Single Phase architecture ensures extremely simple installation and connection for the installer.

Enough space is provided for good visibility and easy cable insertion.

Disbo Extra ™ $Single\ Phase$ is designed for convenient and fast wall mounting, with numerous possibilities for cable inlet and easy knock-out.

Clear labels make easier identification of outgoing circuit breakers, earth and neutral.



A comprehensive offer from 6 to 14 ways

A comprehensive system for quality and peace of mind

Disbo Extra™ Single Phase is a durable product manufactured by Merlin Gerin the world leader in power distribution.

Disbo Extra[™] Single Phase enclosure range is adapted to a large variety of requirements:

- single phase
- current rating up to 100A
- 2 types: row and tested busbars
- from 6 to 12 ways
- Tested busbar according to IEC60439
- Tested busbar type supplied with incoming device
- flush or surface mounted
- Using Merlin Gerin protective devices
- blank plate provided as standard
- 5 different end cap colors

 $\textbf{Disbo} \ \textit{Extra}^{\text{\tiny{TM}}} \ \textit{Single Phase} \ \text{is specifically designed to accomodate Merlin Gerin}$ devices for protection of people and equipment, through its large choice of incomers (switch disconnector, Miniature Circuit Breaker) and outgoing Miniature Circuit Breaker (Multi 9 and Domae range).



There is at least one **Disbo** *Extra*™ *Single Phase that meets your requirement*

Where safety meets design

The new electrical distribution board **Disbo** Extra™ consists of a range of metallic enclosures with renewed design and still more safety.

Disbo *Extra*[™] is integrated better still into buildings, whether in housing or commercial buildings.

With a step ahead, Merlin Gerin innovates in all aspects of the product in term of design, safety and installation.

Disbo Extra[™] can easily be recognised with its unique and attractive front door shape, available in more than 18 colors.

Disbo Extra[™] provides optimum protection for both instalelrs and end-users:

- equipped with completely insulated busbar, direct contact with live parts is prevented.
- type tests performed by ASTA laboratory (UK) certify that **Disbo** Extra[™] complies with IEC 60439- 3 standard.

Thanks to its clever carton box, including cement spill protection and repacking function, **Disbo** Extra™ is easier to install.

A comprehensive system for quality and peace of mind

Disbo *Extra*[™] is a durable product manufactured by Merlin Gerin the world leader in power distribution.

Disbo Extra[™] enclosure range is adapted to a large variety of requirements:

- safe and elegant door lock
- flush or surface mounted
- 3 phases
- from 12 to 54 ways
- current rating up to 250 A
- all Merlin Gerin protective devices

- wide choice of options and accessories

Disbo *Extra*[™] is specifically designed to accommodate Merlin Gerin devices for protection of people and equipment, through its large choice of incomers (switch disconnector, Miniature Circuit Breaker, Moulded Case Circuit Breaker, earth leakage protection device), and outgoing Miniature Circuit Breaker (Multi 9 and Domae range).

You will certainly find the solution to your needs with **Disbo** $Extra^{\mathsf{TM}}$.

.... adapted solutions



Multi 9 Metal enclosures MCB boards internationally certified

- in compliance with standards: BS 5486 part 12, IEC 439 and BSEN 60439 1
- degree of protection: IP41
- surface or flush mounting
- galvanized 1.2mm steel sheet
- High quality epoxy powder surface coating
- suits Multi 9 miniature circuit breakers

Technical Data for single phase enclosures

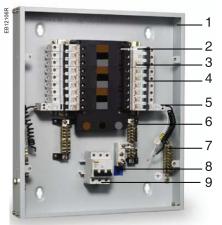
- neutral incoming terminal and earth link incoming connections: use rigid or flexible cables up to 16 mm²;
- neutral and earth link outgoing connections: use rigid or flexible cables up to 10mm²

Technical Data for three phase enclosures

- neutral incoming terminal connection : use rigid or flexible cables up to 120 mm²
- earth link incoming connections: use rigid or flexible cables up to 70 mm²
- neutral and earth link outgoing connections: use rigid or flexible cables up to 16 mm²



Single Phase Enclosure



Three Phase Enclosure



- 1. Surface mounting enclosure
- 2. Pan assembly
- 3. Terminal shield & way label
- MCB unit
- 5. RCBO 6. Neutral link
- 7. Earth link
- 8. Neutral incoming terminal
- 9. A.I. switch
- 10. Hinge door
- 11. Inner cover

Circuit-breakers



Protection of electric circuits against overloads and short-circuits.

DOMAE circuit-breakers 1P, 2P, 3P, 3P+N from 6 A to 63 A

Technical data

Approval	AENOR	
Compliance with standards	EN 60898, IEC 60898	
Marking	Zone for pasting markers or pictograms on the front face	
Connection by tunnel terminals	25 mm² max. rigid copper cable	

Гуре	Width in mod. of 9 mm	Voltage rating (V AC)	Breaking capacity (A)	Rating (A)	Cat. no. C curve
1P	2	230	3 000	6	12911
1				10	12912
.*				16	12913
				20	12914
. 5				25	12915
5				32	12916
2				40	12917
				50	12593
				63	12594
2P	4	230	3 000	6	12991
1 3				10	12992
↓ ↓				16	12993
\\\\				20	12994
				25	12995
33				32	12996
7 7 2 4				40	12989
				50	12595
				63	12596
3P	6	400	3 000	6	12778
1 2	=			10	12779
1 1 .	5 L			16	12780
\^\^\	`			20	12781
3 3	卢			25	12782
2 2	2			32	12783
2 4 (5			40	12769
				50	12597
				63	12598
3P+N	8	400	3 000	6	12584
				10	12585
N 1 3	3 5 L J			16	12586
/ <u>···/</u> x/	`*			20	12587
	5 5			25	12588
	> >			32	12589
N 2 4	l 6			40	12590
	. •			50	12591
				63	12592







Residual current circuit-breakers



Protection of electric circuits against insulation faults.

- 30 mA protection of people
- 300 mA fire protection

Control of on-load electric circuits, already protected against overloads and short-circuits.



Rating In ≤ 40 A



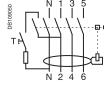


DOMAE RCCBs 2P, 4P from 25 to 63 A 16790 ... 16812

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Approval		AENOR	
Compliance with standards		EN 61008	
Built-in residual current device AC type		Common use, protected against nuisance tripping due to transient surges: lightning stroke, device switching on network, etc.	
Test button		Used to check proper operation of the residual current device.	
Marking		Zone for pasting markers or pictograms on the front face	
Connection by tunnel terminals		35 mm² max. rigid copper cable 25 mm² max. flexible copper cable	

Туре	Width in mod. of 9 mm	Voltage rating (V AC)	Rating (A)	Sensitivity (mA)	Cat. no.
1P +	4	230	25	30	16790
neutral				300	16792
	N 1		40	30	16793
64				300	16795
T 1	N 2		63	300	16798
3P +	8	400	25	30	16807
neutral			40	30	16810
	N 1 3 5			300	16812



Surge arresters



Protection of electric circuits and electronic equipment against indirect overvoltages due to lightning effect.

Function

- Includes lightning protection and an end of life safety disconnector.
- Pre-equipped with a connection accessory for the electrical link between the surge arrester and the incoming residual current circuit-breaker (1P+N only), an earthing terminal block and a connecting cable, for quick implementation in compliance with installation rules.

DOMAE Surge arresters 1P+N & 3P+N 16612 ... 16613 **Technical data** Compliance with standards IEC 60364 Guide EN 61643-12 Product standard: EN 61643-11 Type 2 IEC 61643- 1 T2 Maximum discharge current 10 kA Imax (8/20) 5 kA Nominal discharge current In (8/20) Breaking capacity at 50 Hz 6 kA < 1500 V Level of protection Up (In) In common Maximum continous operating 275 V (phase-to-earth, neutral-to-earth) mode CM voltage Uc In differential 275 V (phase-to-neutral) mode DM Rated voltage Un 1P+N: 230 V AC 3P +N: 230/400 V AC 50/60 Hz Rated frequency End of life indication Red mechanical indicator and toggle in OFF position Phase and 16 mm² rigid copper cable Connection by tunnel terminals <u>neutr</u>al Earth 16 mm² rigid copper cable Delivered with Lug to be crimped for earthing cable Width in mod. Cat. no. Type of 9 mm Domae Quick PF 10 kA 1P+N 4 16612 Domae Quick PF 10 kA 3P+N 10 16613



Switches



Control and disconnection of on-load electrical circuits already protected against overloads and short-circuits.

DOMAE Switches	12456 12467
Technical data	
Approval	VDE, AENOR, GOST
Compliance with standards	EN 60669-1, IEC 60669-2-4
Marking	Zone for pasting markers or pictograms on the front face
Disconnection	Yes according to IEC 60669-2-4
Manual control	On front face by O - I lever
Frequency	50/60 Hz
Insulation voltage	500 V AC
Connection	Upstream/downstream: by tunnel terminals, flexible or rigid cables without end: Max. $2 \times 16 \text{ mm}^2 \text{ or } 1 \times 35 \text{ mm}^2$

Туре	Width in mod. of 9 mm	Voltage rating (V AC)	Rating (A)	Cat. no.
1P 1 0 0 2	2	230	<u>25</u> <u>40</u>	12456 12457

2P	4	400	25	12459	
⁸ 1 3			40	12460	
1 3 1 1			63	12461	
- ,0 ,0					
7/					
2 4					

3P	6	400	25	12462	
§ 1 3	5		40	12463	
<u>F</u> T					
//-	·-/ _Q				
))					
2 4	6				

4P	8	400	25	12465
98 1 3	5 7		40	12466
DB108640	ĭí		63	12467
ੂ '	_ቀ ′ _ዋ			
///	7/			
2 4	6 8			





TL impulse relays CT contactors SO bells, RO buzzers



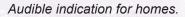
Remote control of a single-phase lighting circuit by impulse type electrical order.





Remote control of a single-phase lighting circuit by lached type electrical order.







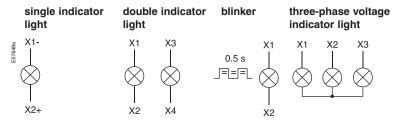
DOMAE TL impulse rela	ys	Cat. no. 15508		
General data				
Width in mod. of 9 mm		2		
Approval		VDE		
Compliance with standards		EN 60669		
Number of switching operations	Per Day Total	100 200,000		
Maximum switching frequency		5 switching operation	ns per minute	
Marking		Clip-on markers on fi	ront face	
Position indication		On front face by O-I	lever	
Applications		,	logen (resistive loads), e lamps (inductive loads)	
Control circuit (coil)				
Control voltage		230 V AC		
Coil inrush consumption (at 20°C)		19 VA		
Impulse duration		50 ms		
Manual control		On front face by O -	l lever	
Connection by tunnel terminals		Flexible or rigid cable $2 \times 0.5 \text{ mm}^2$ to $2 \times 1.5 \text{ mm}^2$	es (with or without end): 5 mm ²	
Power circuit (contact)				
Number		1		
Rating		16 A		
Voltage rating		250 V AC		
Connection by tunnel terminals		Flexible or rigid cables $2 \times 2.5 \text{ mm}^2$ to 1×4	s: $2 \times 1.5 \text{ mm}^2$ with end, mm² without end	
DOMAE CT contactors		Cat. no. 15370		
General data				
Width in mod. of 9 mm		2		
Approval		VDE, IMQ		
Compliance with standards	D D	EN 61095		
Number of switching operations	Per Day Total	100 200,000		
Marking		Clip-on markers on fi	ront face	
Signalisation		A red mechanical inc	licator light comes on if and the contacts in make	
Applications		For lighting, heating, systems	mechanical ventilation	
Control circuit (coil)				
Control Voltage		230 V AC		
Coil consumption (at 20°C)	Inrush	15 VA		
	Holding	1.2 VA		
Connection by tunnel terminals			s: 2 × 1.5 mm² with end × 4 mm² without end	
Power circuit (contacts)				
Number		2 NO		
Rating		20 A		
Voltage rating		250 V AC		
Connection by tunnels terminal		Flexible or rigid cable and 2 × 2.5 mm ² or 1	s: 2 × 1.5 mm ² with end × 4 mm ² without end	
		230 V AC	12 V AC	
SO Bells RO Buzzers Technical data		Cat. no. 15320 Cat. no. 15322		
Width in mod. of 9 mm		2		
Sound level at 60 cm		80 dBA (SO Bells)	70 dBA (RO Buzzers)	
Frequency Voltage rating		50/60 Hz 230 V AC	8 12 V AC	
Consumption		5 VA	3.6 VA	
Connection by tunnel terminals		4 mm² cable	1707	
Voltage transformer		NO	Cat. no. 15213	

V indicator light



The V indicator lights are used for luminous indication.

The V indicator light range consists of:



Technical data

- complies with standard IEC 60947-5-1 (excepted cat. nº 18327 complies with standard IEC 73 and IEC 1000-4)
- operating frequency: 50...60 Hz
- indicator light with LED technology:
- □ consumption by indicator light: 0.3 W (0.5 W for cat. nº 18327)
- □ service life: 100,000 hours with constant luminous efficiency
- □ indicator light requires no maintenance (non-interchangeable LEDs)
- blinker frequency: 2 Hz
- degree of protection:
- □ IP4/IPxxD for the part outside the enclosure
- □ IP2/IPxxB at the terminals
- divisible partition for the teeth of any comb busbar to fit into
- degree of pollution: 3 (2 for cat. nº 18325)
- operating temperature: -20 °C...+50 °C
- storage temperature: -40 °C...+100 °C
- tropicalisation: treatment 2 (relative humidity 95 % at 55 °C)
- connection by rigid or flexible cable with or without cable end:
- □ tunnel terminals up to 2 x 2.5 mm², +/- recess screw, Pozidriv nº1
- $\ \ \square$ staggered terminals simplifying cable connection.

Туре	Width	Colour	Catalogue	Catalogue
	in mod.		number	number
	of 9 mm		110230 V AC	1248 V AC/DC
Single indica	ator light			
	2	Red	18320	18330
		Green	18321	18331
		White	18322	18332
		Blue	18323	18333
		Yellow	18324	18334

Double indicator light				
2	Green/red	18325		
2	White/white	18328		
2	Green/red		18335	

Blinker				
	2	Red	18326	

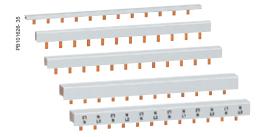
Туре	Width	Colour	Catalogue number	
	in mod.		230400 V AC	
	of 9 mm		3-phase	
Three-pha	se voltage indic	ator light		
	2	Red/red/red	18327	



Comb busbars



Distribution of electrical power supply in an enclosure. Quick assembly and disassembly of the devices connected.





DOMAE Comb busbars		1038710395	
Technical da	ta		
Compliance with standards		IEC 60439-1, EN 60439-1	
Rated current		63 A	
Voltage rating	Phase-to-neutral	230 V AC	
	Phase-to-phase	400 V AC	

These comb busbars can be mounted on Domae devices.

Power supply	
The comb busbars are	By 16 mm ² semi-rigid or 10 mm ² flexible cable
supplied	With connector by 35 mm ² semi-rigid or 25 mm ² flexible cable

Pre-cut comb busbars

Туре	Rating (A)	Width in mod. of 9 mm	Description	Cat. no.
1 Ph	63	24	1 x 12-module comb busbar 1 x 10 mm ²	10387
2 Ph	63	24	1 x 12-module comb busbar 2 x 10 mm ²	10389
3 Ph	63	24	1 x 12-module comb busbar 3 x 10 mm ²	10391
4 Ph	63	24	1 x 12-module comb busbar 4 x 10 mm ²	10393

1 m long comb busbars

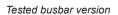
Туре	Rating (A)	Length (m)	Description	Cat. no.
1 Ph	63	1	1 recuttable 1 m bar 1 x 10 mm ²	10388
2 Ph	63	1	1 recuttable 1 m bar 2 x 10 mm ²	10390
3 Ph	63	1	1 recuttable 1 m bar 3 x 10 mm ²	10392
4 Ph	63	1	1 recuttable 1 m bar 4 x 10 mm ²	10394
L1-N	63	1	1 recuttable 1 m bar 4 x 16 mm ²	10395
L2-N				
L3-N				

Accessories	Cat. no.
1 set of four 35 mm ² connectors	10397
1 set of 10 bar end pieces (2 phases)	10398
1 set of 10 bar end-pieces (3 phases)	10399
1 set of 10 bar end-pieces (4 phases)	10405
1 set of 10 tooth shields	10396

Disbo Extra Single Phase



Selection of Disbo Extra M Single Phase



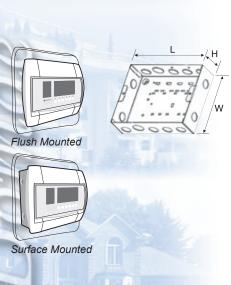


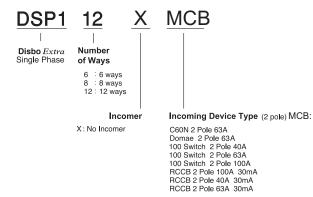
Row busbar version











DSP1 **ROW** 8 $\begin{array}{c} \textbf{Disbo}\,Extra\\ \textbf{Single Phase} \end{array}$ ROW Type Number of Ways 8: 8 ways 10: 10 ways 14: 14 ways

Quick visual check of circuit breakers status

■ Key lock option for front door

Creating new standards in design-Color End cap

■ Disbo Extra single phase cover with multiple color end caps to match your interiors.

Name	Cat. No.
of the color	Specify
Silver	SDVS1ASP
Champagne Gold	SDVS1ACGP
Blue	SDVS1ABL
Light Grey	SDVS1AGY
Dark Grey	SDVS1AAGP

Consumer Units Dimension and installation Type

Tested busbar	Row type	L	W	Н	
		$\overline{}$	$\overline{}$	\top	
6 WAYS	8 WAYS	239	206	73	
8 WAYS	10 WAYS	315	206	73	
12 W/AVS	1/ W/VC	201	206	72	

Notes: 1. No of ways including the main breaker

2. METAL BOX outside dimension.

3. All dimension in mm.

Disbo Extra Three Phase





Creativity

The original "made in France" design of Disbo *Extra*™ follows the latest trends in aesthetics and architecture.

Elegance

Whatever the installation sets out to meet, Disbo $\textit{Extra}^{\text{TM}}$ responds in the most efficient and elegant way.

Distinction

With its unique rounded door and attractive smooth surfaces, Disbo Extra™ enriches your interior with a simple and original touch of distinction.

Colorful

Thanks to more than 20 modern and sober optional colors, personalisation takes new meaning with Disbo *Extra*™.



Incoming Devices

Switch Disconnectors

Control and isolation of electrical circuits Comply with IEC 60947 - 1 and 60742 - 3 standards



I switches

Current rating 40 to 125 A Insulation volatge: 580 V

Circuit Breakers

Protection of circuits against overload and short-circuit currents

Comply with IEC 60947 - 1 and 60742 - 3 standards Moulded Case Circuit Breakers



■ Easypact - EZ100

Current rating 40 to 100 A
Breaking capacity at 380 V: 18 kA

■ Easypact - EZ250

Current rating 125 to 250 A Breaking capacity at 380 V: 36 kA



■ Compact NS100 - NS160 - NS250 Current rating 16 A to 250 A

Breaking capacity at 380 V:

NS100: 25 kA NS160 & NS250: 36 kA Adjustable trip unit

Total discrimination as standard with downstream circuit breakers

Earth Leakage Protection

Protection of people and goods against fire and electrical shocks

Specially recommended for humid and public areas



Complies with IEC 61008 standard Current rating 40 A to 125 A Sensitivity: 300 mA Instantaneous trip release Self supplied by distribution voltage, does not require any external source

Outgoing Miniature Circuit Breakers

Standard Protection

Protection of circuits against overload and short circuit currents

Complies with IEC 60947 and IEC 60898 standards



■ Domae
Current rating 6 to 63 A
Breaking capacity at 220380/ V: 3 kA
Available in 1, 2 and 3 poles
Recommended for housing and
commercial applications



■ C60N - C60H - C60L
Current rating 0,5 to 63 A
Breaking capacity at 220380/ V:
□ C60N:10kA □ C60H:15kA □ C60L:25kA
Available in 1, 2 and 3 poles
Recommended for commercial and industrial applications

Full Protection

Complete protection of circuits against overload and short circuit currents as well as protection of people and goods against fire and electrical shocks. Complies with IEC 61009 standard



■ C60H - RCBO
Current rating 6 to 45 A
Breaking capacity at 220380/ V: 10 kA
Sensitivity 30 or 100 mA
Automatic tripping in case of loss of neutral
and inversion between phase and neutral

Phase and neutral in one pole module of 18 mm width

Recommended for humid and public areas



Disbo Extra Three Phase



Technical data

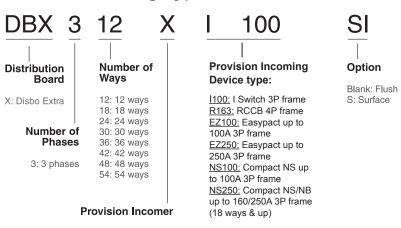
Complies with IEC 60439-3 (type tests performed by ASTA laboratory (UK)) Current rating up to 250 A
Short time withstand: 17 kA rms for 200 ms
Peak short time withstand: 34 kA
Index of protection IP31 as per IEC 60529

■ Structure

From 12 to 54 ways
Flush or wall mounted
Adjustable pan assembly
Top and bottom removable gland plates
Copper tin plated bus bar
Zinc coated metal sheet without any welding points
Earth and neutral bar available as standard
Earth and neutral terminal holes equal to number of outgoing devices

Enclosures

Busbar Mounting Type

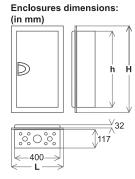


X: Breaker provision only

Dimensions

Define your enclosure Size Type according to your needs of ways and incomers.

Number of ways		MCCB 125 A	
12	В	В	_
18	В	С	С
24	В	С	С
30	С	D	D
36	С	D	D
42	С	D	D
48	D	Ε	E
54	D	Е	E



Flush Size type	Н	h	L
В	570	530	440
С	730	690	440
D	890	850	440
E	1040	1000	440
Surface			
Size type	Н	h	L
В	545 705	530 690	410 410



Disbo-Extra DIN rail mounting system



Function
 Horizontal installation.

 Possibility of provide multiple split sections.

■ Technical data

Complies with IEC 60439-3 Index of Protection: IP31 per IEC 60529 Zinc coated metal sheet of 1.2mm thickness, Standard colour RAL 9002 16 module width. Define the distribution board you need

Define the distribution board you need



DBX ROW1 FD

Distribution Board

X: Disbo-Extra-row

Option

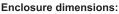
Blank: Flush S: Surface

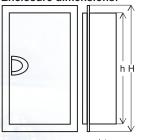
Number of rows

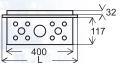
1 row, 2row, 3row 4row, 5row, 6row



Dimensions







Flush	н	h	L
1Row	320	280	480
2Row	570	530	440
3Row	730	690	440
4Row	890	850	440
5Row	1040	1000	440
6Row	1040	1000	440

Surface	Н	h	L
1Row	288	280	448
2Row	545	530	410
3Row	705	690	410
4Row	885	850	410
5Row	1015	1000	410
6Row	1015	1000	410

Accessories for Disbo extras 3-phase busbar mounting

Item	Reference	Item	Reference	Item	Reference
Key lock standard Key lock square	DBXKEYSTD DBXKEYSQD	Additional blank	plates DBXBLKPLT	Identification labels	DBXIDFLBL











Identification labels for an easy marking of all applications











SPN MCB/RCBO Boards

Bar Ratings 100A

D	D	NI			Dimensio	ne	
Part no.	Part no.	No. of			Dillielisic	115	
Surface	Flush	Way	H(surface)	W(surface)	H(flush)	W(flush)	D
EB10006R	EB10006	6	250	250	240	304	100
EB10008R	EB10008	8	250	250	240	340	100
EB10010R	EB10010	10	250	300	240	376	100
EB10012R	EB10012	12	250	350	240	412	100
EB10014R	EB10014	14	250	400	240	448	100
EB10016R	EB10016	16	250	450	240	484	100
EB10044R	EB10044	4+4	250	300	240	394	100
EB10084R	EB10084	8+4	250	400	240	466	100
EB10104R	EB10104	10+4	250	450	240	502	100
EB10106R	EB10106	10+6	250	450	240	538	100

TPN MCB/RCBO Boards with Main Switch Space Bar Ratings 200A

	•						
Part no. Surface	Part no. Flush	No. of Way	H(surface)) W (surface)	Dimension H(flush)	ons W(flush)	D
EB12104R	EB12104	4	466	540	506	500	110
EB12106R	EB12106	6	520	540	560	500	110
EB12108R	EB12108	8	574	540	614	500	110
EB12110R	EB12110	10	628	540	668	500	110
EB12112R	EB12112	12	682	540	722	500	110
EB12114R	EB12114	14	736	540	776	500	110
EB12116R	EB12116	16	790	540	830	500	110
EB12118R	EB12118	18	844	540	884	500	110
EB12120R	EB12120	20	898	540	938	500	110
EB12122R	EB12122	22	952	540	992	500	110

TPN MCB/RCBO Boards (split bar type) with Main Switch Space Bar ratings 200A

Part no.	No. of	Dir	mensions		Part no.	No. of		Dimensions	
Flush	Way	Н	W	D	Flush	Way	н	W	D
EB13202	2+2	574	540	110	EB13416	4+16	1006	540	110
EB13204	2+4	628	540	110	EB13418	4+18	1060	540	110
EB13206	2+6	682	540	110	EB13606	6+6	790	540	110
EB13208	2+8	736	540	110	EB13608	6+8	844	540	110
EB13210	2+10	790	540	110	EB13610	6+10	898	540	110
EB13212	2+12	844	540	110	EB13612	6+12	952	540	110
EB13404	4+4	682	540	110	EB13614	6+14	1006	540	110
EB13406	4+6	736	540	110	EB13616	6+16	1060	540	110
EB13408	4+8	790	540	110	EB13808	8+8	898	540	110
EB13410	4+10	844	540	110	EB13810	8+10	952	540	110
EB13412	4+12	898	540	110	EB13812	8+12	1006	540	110
EB13414	4+14	952	540	110	EB13814	8+14	1060	540	110

Multi 9 Metal enclosures technical specifications / MCB accessories





Extension Box module

Part no.	Dimensions				
	н	W	D		
EBEXT01	240	540	110		
EBEXT01R	200	500	110		

Accessories

Part no.	Description			
EB19001	Al switch tee busbar			
EB19002	Blanking plate for 6 SP MCB			

Modular enclosures

Mini Pragma Flush mounting with terminal blocks 1 row, 4 to 18 modules

2 and 3 rows, 12 modules per row



Mini Pragma is a distribution or subdistribution enclosure up to 63 A. It is used indoors, in housing or in the service sector, for new installations or renovation work.

Description

Technical data

- Equipped with an opaque or transparent, curved door:
- 1 row: wicket door opens 90° upwards
- 2 and 3 rows: door opens 180° to the right and to the left.
- Rated current of the enclosure:
- 4 modules: 50 A
- □ 6 to 36 modules: 63 A.
- Material:
- insulating, self-extinguishing material
- colour: white RAL9003.
- Compliance with standards:
- □ complies with IEC 439.3 (EN 60 439 3).
- Degree of protection:
- as in IEC 529:IP40 (protection against solids and liquids).
- as in EN 50 102: IK07 (protection against mechanical impacts)
- □ class 2 protection against indirect contact.
- Fire and excessive heat withstand capacity as in IEC 695 2 1:
- □ enclosure: 650°C/30 s
- N-earth terminal bar supports: 960°C/30 s.

Composition

Flush mounting Mini Pragma is composed of:

- a symmetrical base:
- □ robust
- □ of a depth adapted to walls with a low thickness
- □ with punch-outs for tube insertion on the 4 sides
- 1 to 3 symmetrical rails with adjustment of verticality:
- 1 row: adjustable symmetrical rail depth
- □ 2 and 3 rows: one-piece chassis enabling wiring outside the base
- a rigid, reversible front panel:
- with a curved wicket door or curved door
- equipped with blanking plates which can be punched-out.

Accessories delivered with the enclosure

Flush mounting Mini Pragma is delivered equipped with:

- a circuit identificationstrp per row:
- to be glued on the front panel
- a connection assembly:
- □ 2 earth-neutral terminal blocks
- □ 2 terminal block supports
- terminal block details:

Number of holes	Composition	
	10 mm²	16 mm ²
_ 4	2	2
_8	4	4
_16	8	8
22	11	11
32	16	16

Catalogue numbers

Enclosure with door						
Number	Capacity in	Capacity in		Terminal blocks Cat. no.		
of rows	modules	modules modules		Opaque	Transparent	
	of 9 mm	of 18 mm	(no.x no. holes)			
1	8	4	2x4	13371	13301	
1	12	6	2x4	13372	13302	
1	16	8	2x8	13373	13303	
1	24	12	(2x4) + (2x8)	13374	13304	
1	36	18	2x16	13375	13305	
2	48	24	2x16	13932	13942	
3	72	36	2x22	13933	13943	

Optional accessories: page 21 Dimensions: page 22 - 23





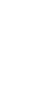
Connection

Mini Pragma Surface mounting with terminal blocks

1 row, 4 to 18 modules 2 and 3 rows, 12 modules per row















Function

Mini Pragma is a distribution or subdistribution enclosure up to 63 A. It is used indoors, in housing or in the service sector, for new installations or renovation work.

Description

Technical data

- Equipped with an opaque or transparent, curved door:
- 1 row: wicket door opens 90° upwards
- 2 and 3 rows: door opens 180° to the right and to the left.
- Rated current of the enclosure:
- 4 modules: 50 A
- 6 to 36 modules: 63 A.
- Material:
- □ insulating, self-extinguishing material
- colour: white RAL9003.
- Compliance with standards:
- complies with IEC 439.3 (EN 60 439 3).
- Degree of protection:
- as in IEC 529: IP40 (protection against solids and liquids).
- as in EN 50 102 : IK07 (protection against mechanical impacts)
- □ class 2 protection against indirect contact (with insulating plugs on the fixing screws).
- Fire and excessive heat withstand capacity as in IEC 695 2 1:
- □ enclosure: 650°C/30 s
- N earth terminal bar supports: 960°C/30 s.

Composition

Surface mounting Mini Pragma is composed of:

- a back with:
- a centred oblong opening to simplify installation
- oblong fixing holes enabling the adjustment of verticality
- cable insertion kit:
- punch-outs, on 4 panels for the 1 row enclosures
- a large surface for punching (crown saw, punches) at the top and bottom of the 2 and 3 row enclosures.
- 1 to 3 metallic rails, screwed symmetrically onto the back
- a cover:
- □ reversible front panel, equipped with blaking plates which can be punched-out
- curved wicket door or curved door

Accessories delivered with the enclosure

Surface mounting Mini Pragma is delivered equipped with:

- insulating plugs:
- □ to be placed on the back fixing screws to obtain a class 2 insulation
- a circuit identification strip per row:
- to be glued onto the front panel
- a connection assembly:
- □ 2 earth-neutral terminal blocks
- 2 terminal block supports

terminal block details:

Number of holes	Composition		
	10 mm²	16 mm²	
4	2	2	
8	4	4	
_16	8	8	
22	11	11	
32	16	16	

Catalogue numbers

Number	Capacity in		Terminal blocks	Cat. no.	
of rows	modules	modules modules of 9 mm of 18 mm		Opaque Transparen	
1	8	4	(no.xno. holes) 2x4	13376	13366
1	12	6	2x4	13377	13367
1	16	8	2x8	13378	13368
1	24	12	(2x4) + (2x8)	13379	13369
1	36	18	2x16	13380	13370
2	48	24	2x16	13912	13922
3	72	36	2x22	13913	13923

Accessories for Mini Pragma

1 row, 4 to 18 modules 2 and 3 rows, 12 modules per row



Function and Description For the installation

Hollow partition flush mounting kit

Enables the flush mounting enclosure base to be fixed in a hollow partition.

Set of 4 brackets and screws.

For the connection

Terminal block support

- Enables the terminal blocks to be installed.
- 1 to 2 terminal block supports per enclosure.
- 12 x 2 flat bar.
- Can be clipped on the back of the enclosure, at the top or bottom.
- Sloped in order to:
- assist cable insertion
- □ improve their accessibility during locking.

Terminal block

Simplifies the wiring.

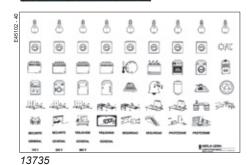
- These Pragma terminal blocks can be installed in the Mini Pragma enclosures.
- Technical data:
- insulated
- □ up to 80 A.
- Installation:
- clips onto the terminal block support or the rail
- □ fixes onto the back of the enclosure.
- Composition:
- □ captive screws delivered open
- guides simplify the insertion of cables into the enclosures
- numbered terminal blocks.

Insulating cover

Insulates the terminal blocks for improved protection.

- Coloured: green, red or blue.
- Enables the IP2 protection level to be attained.
- 2 widths according to the width of the terminal block to be insulated.
- Is only installed on the optional terminal blocks (Pragma terminal blocks).







13736

For the finish

Blanking plate

Blanks the spaces where there are no devices.

- 5 dividable modules.
- Colour: white RAL9003.
- Delivered in sets of 10.

Key lock

Protects the access to the switchgear operating mechanism in some buildings according to regulations.

- Delivered with 2 metal keys.
- Fixes onto the enclosure and the door after punch-out following the instruction manual.

Sealing kit

Prevents access to the live parts by sealing the base or the back with the cover. Occupies the place of one of the front panel fixing screws.

Symbol plate

Includes self-adhesive pictograms which enble the outgoers to be identified.

- Ordinary symbols:
- □ Loads:
- socket
- lighting
- convector
- etc.
- □ locations:
- bedroom
- bathroom
- etc.
- Special symbols:
- Special loads:
- surge arrester
- gateway
- pool
- etc.
- □ locations:
- technical room
- computer room
- etc.

Label support sheet

Enables one's own identification self-adhesive labels to be printed. To be printed using the Schneider Interactive Software, etc.

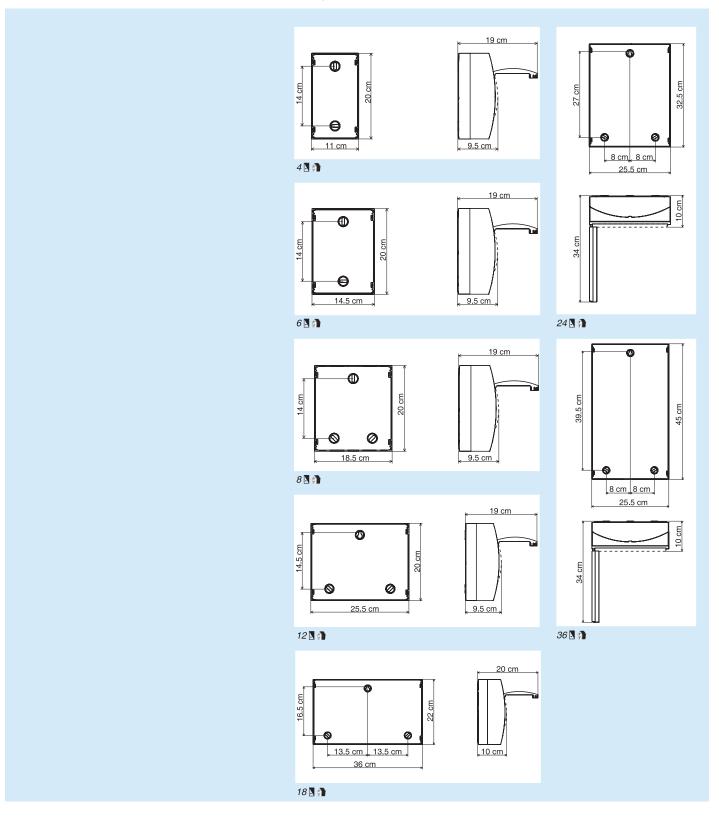
Catalogue numbers

Catalogue r	umbers				
Connection ac	cessories				
Туре	Width (mm)	Use for the enclosures (number of 18 mm modules)		Cat. no.	
Terminal Block	90	4			13361
support	105	6		13362	
	140	8			13363
	320	18			13381
	210	12, 24, 36			13364
Туре	Width (mm)	Number of holes	Composition 10 mm ²	on 16 mm²	Cat. no.
Terminal Block	85	4	2	2	13575
	85	8	4	4	13576
	202	16	8	8	13577
	202	22	11	11	13578
	202	32	16	16	13579
Туре	Width (mm)	Colour		Cat. no.	
Terminal Block	85	Green			13582
		Red			13584
		Blue			13586
	202	Green		13583	
		Red Blue			13585
					13587
Finishing acce	essories				
Туре				Cat. no.	
Blanking plates RAL 9003 (set of 10)			13229		
2 8		1 row		14180	
		2 and 3 ro	2 and 3 rows		13315
Sealing kit					13317
Hollow partition flush mounting kit				13360	
Symbol plate		ordinary		13735	
		special		13736	
Label support she	et				13275

Mini Pragma Dimensions



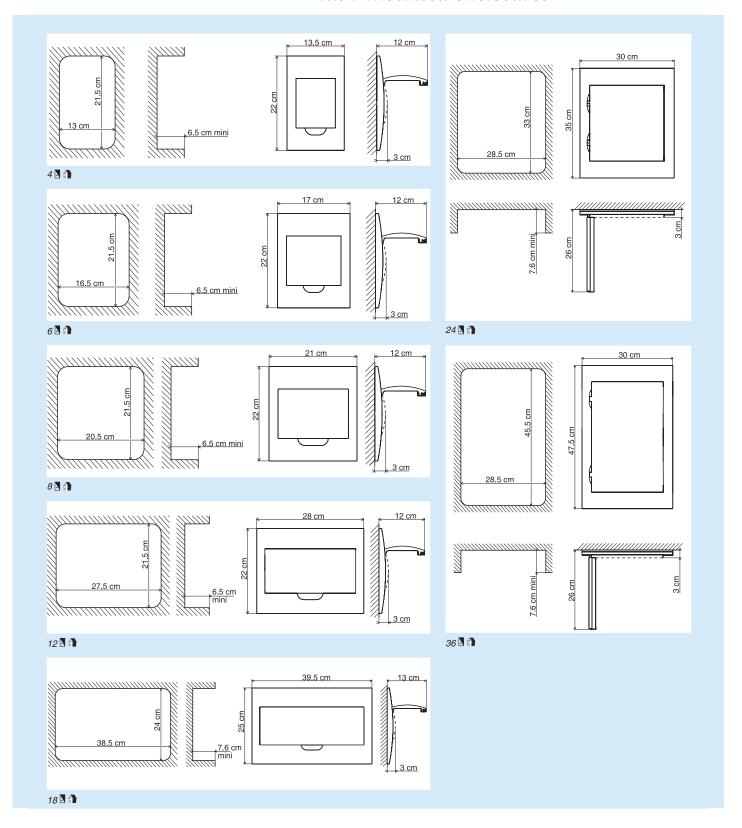
Surface-mounted enclosures



Mini Pragma Dimensions



Flush-mounted enclosures



Notes

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