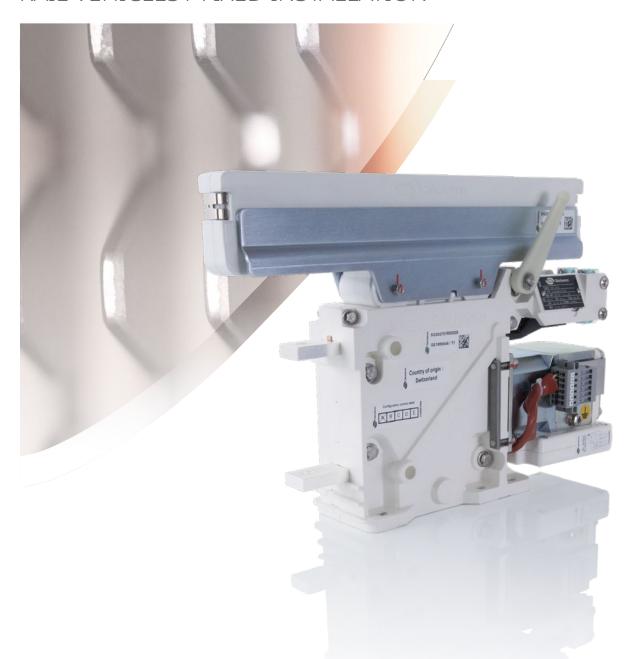


CONTACTORS

Type BMS09.08 / BMS18.08 BMS09.10 / BMS18.10

RAIL VEHICLES / FIXED INSTALLATION





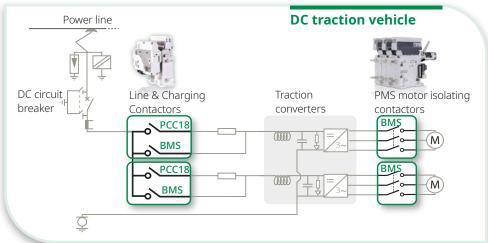
GENERAL INFORMATION

The **BMS** contactor, with more than one hundred and fifty thousands units in operation worldwide, is a contactor valued by the car builders and operators of electric traction vehicles for its strong performance level and its extremely high reliability. Taking advantages of its recognized features and design, Sécheron has modernized the BMS to make a product platform particularly well adapted to actual requirements and standards. With its high modularity, the **BMS** offers variants and options that enable our customers to find

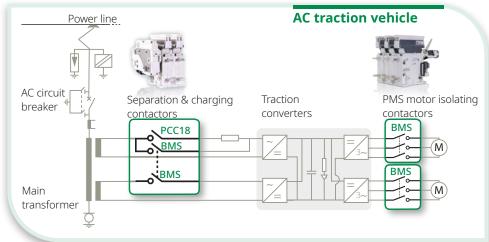
the most appropriate version to fit their application either as a stand-alone contactor, or delivered coupled with a Sécheron dedicated charging contactor type **PCC18**. Power contactor modules, convenient to order and easy to install, are a frequent wish of our customers. Sécheron brings the best solution with "plug & play" units gathering line and charging contactors, but also current measurement and customised high voltage and low voltage interfaces.

APPLICATIONS, TYPICAL EXAMPLES

Line contactors for DC vehicles.



Separation/line contactors for AC vehicles.



- Other applications for locomotives, trains, EMUs, tramways/light rail vehicles, including dual mode rail vehicles with battery.
- Battery charging contactors for e-Bus or dual mode Bus.
- Contactors for DC traction power substations and other industrial fields.

MAIN FEATURES

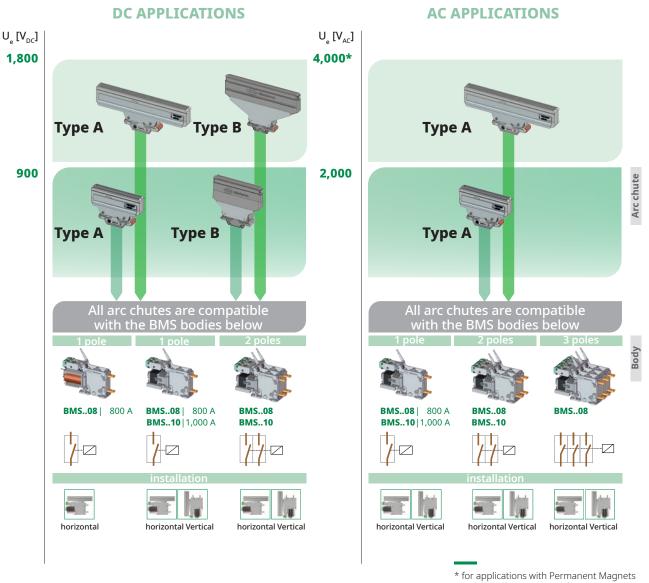
- Normally open and bi-directional contactor.
- Rated voltage 900 Vpc or 1,800 Vpc / 2,000 Vac.
- Conventional free air thermal current 800 A or 1'000 A.
- Available in 1, 2 or 3 poles (BMS..08).
- Low voltage control coil protection against surges.
- Suitable for ambient temperature from -40°C to +70°C.
- Reference standards: EN/IEC 60077-1/-2, EN/IEC 61373, EN 45545, EN 50657.



MAIN BENEFITS

- Very compact size and extremely low weight.
- No critical current.
- Different arc chutes matching installation space and operational performance requirements.
- ✓ Small arc chute also valid for 2,000 VAC.
- High mechanical and electrical durability.
- → Horizontal or vertical mounting to match vehicle's installation constraints.
- → High modularity of the range.
- Possible integration of optional charging contactor type PCC18 directly on BMS line contactor.
- ✓ Low maintenance requirements with easy access to the main contacts for replacement.
- Worldwide service proven.

CONTACTOR CONFIGURATIONS



^{*} for applications with Permanent Magnets Synchronous Motors and frequency up to 400 Hz. For detailed information refer to dedicated brochure SA003724.



DATA FOR PRODUCT SELECTION

	Symbol	Unit	BMS 09.08	BMS 09.10	BMS 18.08	BMS 18.10	PCC18
MAIN HIGH VOLTAGE CIRCUIT							
Pole quantity			1, 2, 3 (AC only)	1, 2	1, 2, 3 (AC only)	1, 2	1
Component category					A2		
Type of main contact				N	Normally Open		
Rated operational voltage							
- DC voltage	Ue/Ur	[V]	900)	1,80	00	1,800
- Ac voltage (16.7, 25, 50/60,400 Hz ⁽¹⁾)		[V]	2,00	00	-		2,000
Rated insulation voltage	U_i/U_{Nm}	[VDC]	2,30	00	2,30	00	2,300
		[Vac]	2,30	00	-		2,300
Conventional free air thermal current (2)	I_{th}	[A]					
- DC voltage & Ac voltage (16.7, 25, 50/60 Hz)			800	1,000	800	1,000	N.A.
- AC voltage (250 Hz)			600	-	600	-	N.A.
- AC voltage (400 Hz)			400	-	400	-	N.A.
Rated operational current/operational frequence							
- Horizontal mounting: DC	Ie/Ir	[A]	800 / C1 (3) (C2 (4))		800 / C1 ⁽³⁾		100
DC	Ie/Ir	[A]	500/0	C2 ⁽³⁾	500 / C2 ⁽³⁾		-
AC	Ie/Ir	[A]	800/0	C2 ⁽³⁾	-		100
- Vertical mounting: DC	Ie/Ir	[A]	500 / C2 (3) - 800	O/C1 (3) (C 2 (4))	800 / C1 (3) (4) - 500 / C2 (3) (4)		N.A.
AC	Ie/Ir	[A]	800/	C1	-		N.A.
Maximum breaking capacity							
- DC current, τ = 15 ms	I_{bc}	[A]	3,200 (3) (6,000 (4))		2,300 (3) (6,000 (4))		200
- AC current, $\cos \Phi = 0.8$ (16.7, 25 & 50/60 Hz)	I_{bc}	[A]	4,20	00	-		200
Maximum making capacity							
- DC current, τ = 15 ms	Imc	[A]	6,000	(3) (4)	6,000 (3)(4)		200
- AC current, $\cos \Phi = 0.8 (16.7, 25 \& 50/60 \text{ Hz})$	I_{bc}	[A]	4,20	00	4,20	00	200
Rated short-time withstand current	I _{cw/t}	[kA]/ [ms]	10 / 100		10 / 100		3 / 100
Peak short-time withstand current	Îcw	[kA]	10		10)	3
Rated power-frequency withstand voltage (50 H							
- Between main contacts (open)	U ₅₀ / U _a	[kV _{AC}]			7.5		
- Main circuit (closed) to earth	U ₅₀ / U _a	[kV _{AC}]			9.5		

⁽¹⁾ For Permanent Magnet Synchronous Motor applications and rated operational voltage >2,000 V_{AC}, please refer to the brochure SA003724 Brochure_Contactors_BMS_3 poles.* (2) At T_{amb} = +40°C and tested with HV connections with current density 1.7 A/mm². For higher frequency, please contact Sécheron. (3) With arc chute type A (4) with Arc chute B

LOW	VOL	TAGE	CIRC	TIU

Control circuit				
Nominal supply voltage (4)	Un	[VDC]	24 to 220	24 to 220
Nominal control voltage (4)	UEF	[VDC]	24 to 110	
Range of voltage			[0.7 - 1.25] U _n	[0.7 - 1.25] Un
Nominal closing power (4)(5)	Pc	[W]	\leq 37, \leq 60, \leq 80, \leq 250, \leq 400	40
Nominal holding power (4)(5)	Ph	[W]	$\leq 4, \leq 6, \leq 10, \leq 37$	-
Mechanical closing time (5)	tcc	[ms]	100 to 130	50
Mechanical opening time (5)	tco	[ms]	50 to 70	10
_				

⁽⁴⁾ For detailed values based on BMS configuration, please refer to page 9 • (5) At Un and Tamb = +20°C.

Auxiliary switches

Adamary Switches			
Type of contacts			Potential free (PF)
Rated voltage		[VDC]	24 to 220
Conventional thermal current	I_{th}	[A]	10
Utilization category according to EN60947			
- AC-15 230 V _{AC}			1.0 A
- DC-13 110 V _{DC}			0.5 A
Minimum let-through current at 24 VDC (6)		[mA]	≥ 10 (silver contacts) or 4 ≤ I < 10 (gold contacts)
			

⁽⁶⁾ For a dry and clean environment.

Low voltage interface

Control circuits	Direct on coil or Wago terminal (based on product configuration)
Auxiliary switches	Direct on switches
 Insulation	

Rated power-frequency withstand voltage	e (50 Hz / 1min)		
- LV circuit to earth	U50 / Ua	[kV]	1.5

OPERATING CONDITIONS

Installation			Indoor
Altitude		[m]	≤ 2,000
Working ambient temperature	Tamb	[°C]	- 40 to + 70
Humidity			95% at + 40°C
Pollution degree			PD3 ⁽⁷⁾
Minimum mechanical durability	Ν	Cycles	2 millions 1 million 2 millions 1 million 2 millions

⁽⁷⁾ for BMS...08 3 poles: PD3 (at U_i/U_{Nm} = 3,600 V), PD2 (at U_i/U_{Nm} = 4,800 V)



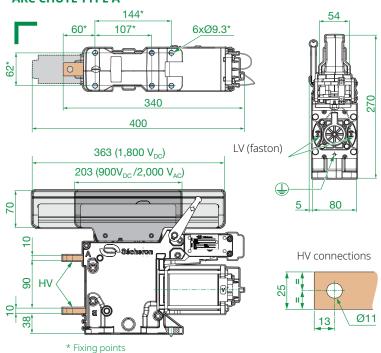
PRODUCT INTEGRATION

MAIN DIMENSIONS

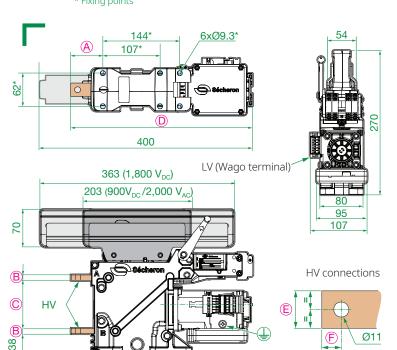
HV connections	M10 screws (BMS08), M12 (BMS10)
Earth connections	M6 screws, thread length 8mm
LV Connections	BMS control: faston or Wago terminal*
	BMS auxiliary switches: M3 screws
Fixing points	M8 screws

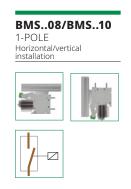
Dimensions without tolerances are indicative. All dimensions are in mm. The maximum allowed flatness deviation of the support frame is 0.5 mm.

// BMS09.08 / BMS18.08 & BMS09.10 / BMS18.10 ARC CHUTE TYPE A







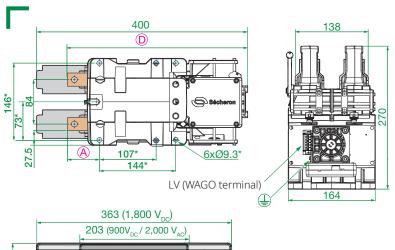


Dimensions [mm]	BMS08	BMS10
A	60	120
B	10	15
©	90	80
D	340	400
E	25	55
	13	20

^{*} Based on product configuration



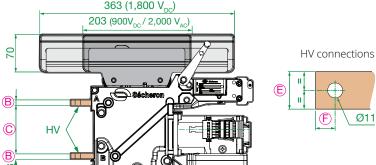
// BMS09.08 / BMS18.08 & BMS09.10 / BMS18.10 ARC CHUTE TYPE A



BMS..08/BMS..10 2-POLES SYNCHRONIZED Horizontal/vertical installation

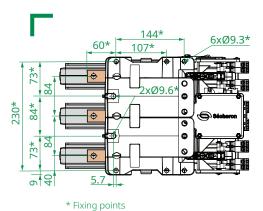


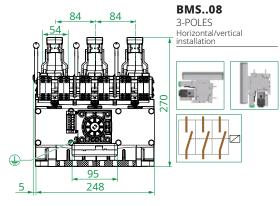


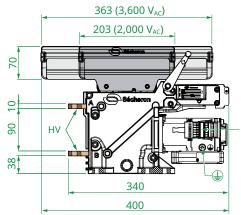


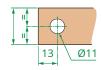
Dimensions [mm]	BMS08	BMS10
A	60	120
B	10	15
©	90	80
D	340	400
E	25	55
	13	20





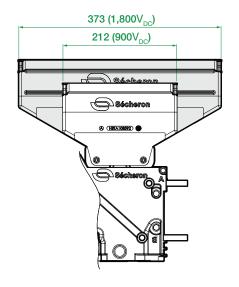


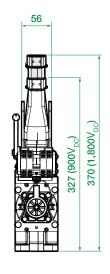






// BMS09.08 / BMS18.08 & BMS09.10 / BMS18.10 ARC CHUTE TYPE B

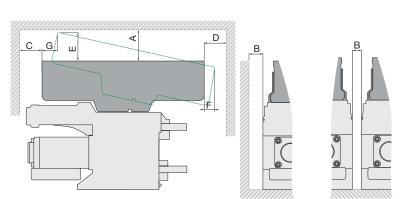




Installed only on 1 and 2 poles configurations. All dimensions with arc chute type A (refer to page 5-6) are valid for contactors equiped with arc chute type B, except for the dimensions shown below.



INSULATION DISTANCES AND WEIGHTS



BMS contactors have been homologated according to IEC60077-2 with the following insulation distances.

	Weight: ± 1 kg [kg]								
BMS type	pole								
"	1	ı	- 2	2	3				
	08	10	08	10	08				
BMS09 A	9	10	15	17	21				
BMS18 A	10	12	17	21	25				
BMS09 B	10	11	17	19	-				
BMS18 B	10	13	21	23	-				

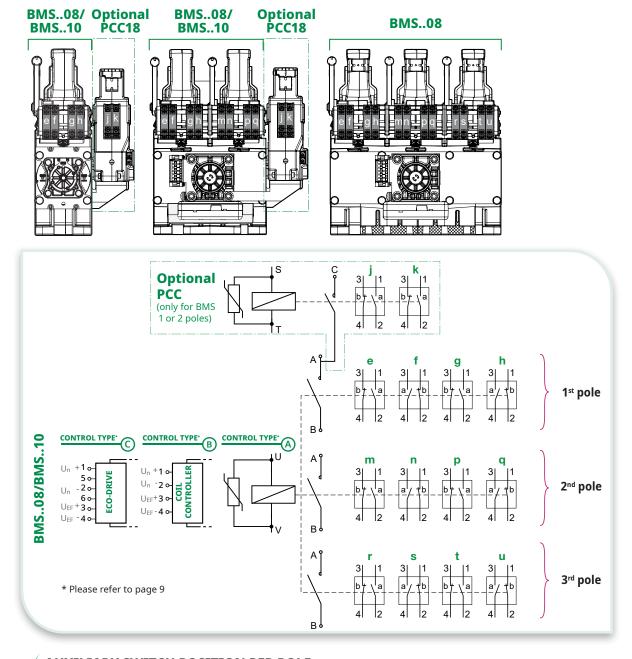
			Insulating distance [mm]							
contactor Breaking current	Arc chute		To earthed wall				To insulating wall			
	type	Α	В	С	D	Α	В	С	D	
BMS09	≤ 800 A	Α	75	10	75	75	40	10	40	40
	> 800 A		(1)	(1)	(1)	(1)	75	10	75	75
BMS18	≤ 800 A	A	75	10	75	75	40	10	40	40
	> 800 A		(1)	(1)	(1)	(1)	75	10	75	75
BMS09	≤ 800 A	В	40	10	40	40	20	10	20	20
	> 800 A		(1)	(1)	(1)	(1)	40	10	40	40
BMS18	≤ 800 A	В	40	10	40	40	20	10	20	20
	> 800 A		(1)	(1)	O ⁽¹⁾	(1)	40	10	40	40

	nute rei ance [n	e removal e [mm]				
E	F	G				
70	30	35				
90	20	40				
70	45	50				
80	20	80				

⁽¹⁾ Distances on request according to your application



AUXILIARY CONTACTS CONFIGURATION



AUXILIARY SWITCH POSITION PER POLE

Function of the selected quantity of poles and of auxiliary switches per BMS's pole, the location of the switches will be as follows:

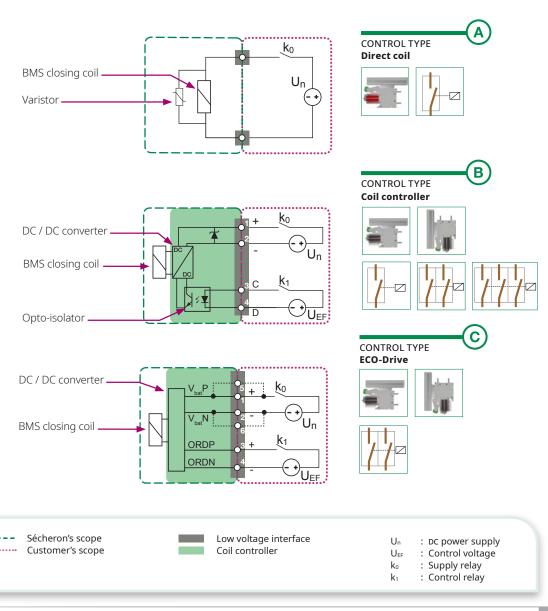
	BMS							PCC18						
	1 st pole				2 nd pole			3 rd pole				1 pole		
1 switch / pole			g				р				t		j	
2 switches / pole		f	g			n	р			S	t		j	k
3 switches / pole	е	f	g		m	n	р		r	S	t			
4 switches / pole	е	f	g	h	m	n	р	q	r	s	t	u		



LOW VOLTAGE CONTROL DIAGRAM

BMS CONFIGURATION (1)		Nominal supply voltage ⁽²⁾ Un [V _{DC}]	Nominal control voltage (2)	Closing power (P _c) / Holding power (P _h) [W] / [W]	Control type	Optional PCC18 ⁽³⁾ Supply voltage Un [V _{Dc}]	
BMS08 horizontal installation only	1 pole	24, 32, 36, 48, 72, 84, 110, 220	N.A.	≤ 37 / ≤ 37	A		
BMS08 horizontal / vertical installation	1 pole	[24-36], [48-110]	[24-110]	≤ 60 / ≤ 4	В		
BMS10 horizontal / vertical installation	Гроіс		[24-110]	≤ 80 / ≤ 4		24, 48, 72, 84, 110, 220 (4)	
BMS08, BMS10	2 poles	[24-36]	[24-110]	< 250 / < 6	©		
horizontal / vertical installation	_ poics	[48-110]	[24-110]	≥ 230 7 ≥ 0	B		
BMS08 horizontal / vertical installation	3 poles	[72-110]	[24-110]	≤ 400 / ≤ 10	B		

⁽¹⁾ For details refer to pages 5 & 6. • (2) Control voltage U_{EF} and supply voltage U_n can be different. • (3) Horizontal installation. • (4) Other voltages on request.





OPTIONS

(SUBJECT TO ADDITIONAL COSTS)

INTEGRATED CHARGING CONTACTOR (PCC18)

Line contactors and charging contactors are usually operated sequentially and mounted side by side in dedicated line breaker boxes, or directly in traction converters. Therefore, delivering an integrated unit combining both functions, line contactor type BMS and charging contactor type PCC18, brings an added value to car builders, as it reduces their engineering, logistic and assembly efforts.

MAIN BENEFITS

- Optimized for the dedicated charging function.
- One single unit with integration of line and charging contactors.
- Integration on all BMS contactors installed horizontally.
- Very compact solution.
- Reduced overall project costs for car builders.



MAIN DIMENSIONS

•

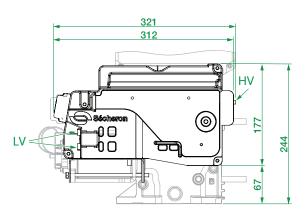
HV connections (PCC18)	M6 screw.
Earth connections	through BMS
LV Connections	PCC18 coil: M3 screws.
	PCC18 auxiliary switches: M3 screws

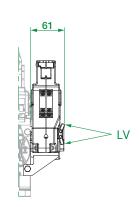
Dimensions without tolerances are indicative. All dimensions are in mm.

The views shown here represent the **PCC18** when mounted on any horizontal **BMS..08** and **BMS..10** versions. The other dimensions of the **BMS..08** and **BMS..10** indicated on page 5 and 6 remain valid.

Additional weight

+ 3 kg





BMS + PCC 1-POLE

Horizontal installation

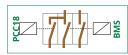




BMS + PCC 2-POLES

Horizontal installation





// CONTROL DIAGRAM

For the control diagram, please contact Sécheron.

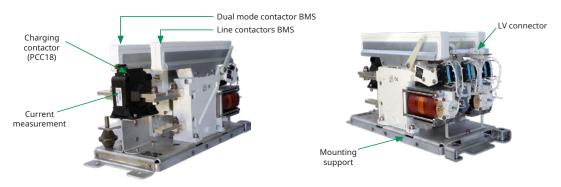


POWER CONTACTOR MODULE

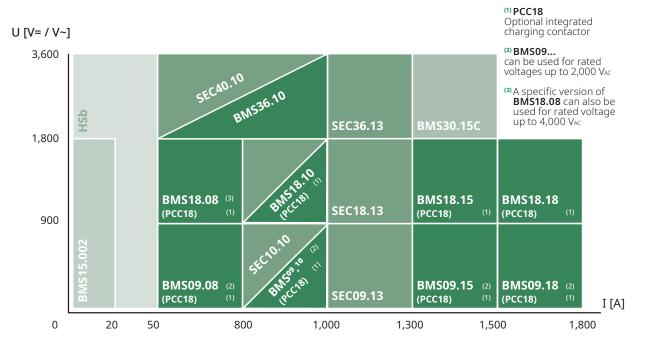
On project base, Secheron designs and delivers complete **Power Contactor Modules** integrating BMS and PCC contactors, but also current measurement and other components necessary to fulfill the application.

All the components are delivered mounted on a support, with implemented high voltage connections between components, and a single low voltage interface. The Power Contactor Module is available in horizontal mounting only.

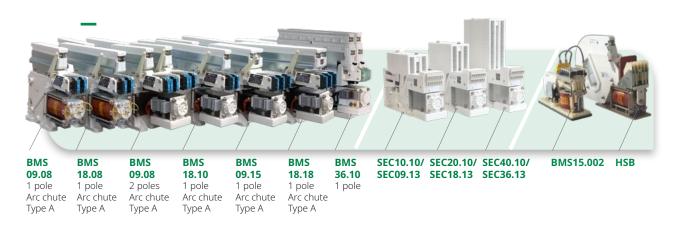
This module offers the car builder simple and easy interfaces, but also simplifies its life in terms of development, logistic and installation.



SECHERON CONTACTORS RANGE



AT A GLANCE



- Be careful to write down the complete alphanumerical designation code with 17 characters when placing your order.
- For technical reasons some variants and options indicated in the designation code might not be combined, therefore validate your configuration with Sécheron before ordering.
- For other configurations not described in the brochure, please contact Sécheron.

Example of customer's choice:	BMS	18	08	Α	1	Z	Ø	Е	А	1	Н	D	Α	
Line.	10	11	12	13	14	15	16	17	18	19	20	21	22	ı

The bold characters of the designation code define the device type.

DESIGNATION CODE

Note: some combinations may not be possible, therefore validate your configuration with Sécheron before ordering

10	Line	Description	Designation	Standard	Options	Customer's choice
1,800 Voc 18	10	Product type BMS	BMS	BMS		BMS
12 Rated conventional free air thermal current (**)	11	Rated operational voltage	900 V _{DC} or 2,000 V _{AC}	09		
1,000 A 10 10 17 10 10 10 10 10			1,800 V _{DC}	18		
Type A Type B B	12	Rated conventional free air thermal current (1)	800 A	08		
Type B B			1,000 A	10		
Number of poles	13	Arc chute type	Type A	Α		
(AC or DC) 2 poles (only AC) 3 poles* 3 15 Poles mechanical synchronization (1 pole) Not applicable (2 & 3 poles) Synchronized (2 & 3 poles) Synchronized (2 & 3 poles) Synchronized (3 yes C) 16 Integrated of charging contactor type PCC18 No Z Yes C 17 Nominal supply voltage (2) 24 Voc A S 32 Voc B 48 Voc C 722 Voc D B 48 Voc C 722 Voc D B 48 Voc D D B 48 Voc D D B 48 Voc D D B 49 Voc D B B 49 Voc D D B 49 Voc D B B 40 Voc D D D B 40 Voc D D D D D D D D D D D D D D D D D D D			Type B		В	
(only AC) 3 poles* 3 15 Poles mechanical synchronization	14	Number of poles	(AC or DC) 1 pole	1		
15 Poles mechanical synchronization (1 pole) Not applicable (2 & 3 poles) Synchronized S 16 Integrated of charging contactor type PCC18 No Yes C 17 Nominal supply voltage (2) * 3 poles only available for [72 - 110 Voc] * 3 poles only available for [72 - 110 Voc] * 3 poles only available for [72 - 110 Voc] * 3 poles only available for [72 - 110 Voc] * 4 Voc 36 Voc 48 Voc 72 Voc D 84 Voc 496 Voc 4 110 Voc E 220 Voc J 18 Auxiliary contacts BMS - per pole 1a + 1b - (switch PF) - silver type 1a + 1b - (switch PF) - gold type 2a + 2b - (switch PF) - gold type 2a + 2b - (switch PF) - gold type 3a + 3b - (switch PF) - gold type 3a + 3b - (switch PF) - gold type 4a + 4b - (switch PF) - silver type 4a + 4b - (switch PF) - gold type 4a + 4b - (switch PF) - gold type P			(AC or DC) 2 poles	2		
16			(only AC) 3 poles*	3		
16	15	Poles mechanical synchronization	(1 pole) Not applicable	Z		
Yes C			(2 & 3 poles) Synchronized	S		
17 Nominal supply voltage (2) * 3 poles only available for [72 - 110 Voc] * 3 poles only available for [72 - 110 Voc] * 3 poles only available for [72 - 110 Voc] * 3 poles only available for [72 - 110 Voc] * 3 poles only available for [72 - 110 Voc] * 3 poles only available for [72 - 110 Voc] * 48 Voc * 72 Voc * 84 Voc 96 Voc 4 110 Voc 220 Voc * 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10	16	Integrated of charging contactor type PCC18	No	Z		
* 3 poles only available for [72 - 110 Voc] * 3 poles only available for [72 - 110 Voc] * 3 poles only available for [72 - 110 Voc] 36 Voc 48 Voc 72 Voc D 84 Voc 40 110 Voc 220 Voc J 18 Auxiliary contacts BMS - per pole 1a + 1b - (switch PF) - silver type 1a + 1b - (switch PF) - gold type 2a + 2b - (switch PF) - gold type 2a + 2b - (switch PF) - gold type 3a + 3b - (switch PF) - silver type 3a + 3b - (switch PF) - gold type 4a + 4b - (switch PF) - gold type 4a + 4b - (switch PF) - gold type 4a + 4b - (switch PF) - gold type 4a + 4b - (switch PF) - gold type 4a + 4b - (switch PF) - gold type 4a + 4b - (switch PF) - gold type 4a + 4b - (switch PF) - gold type			Yes		С	
36 Vpc	17	Nominal supply voltage (2)	24 V _{DC}	Α		
A8 Vpc		* 3 poles only available for [72 - 110 VDc]	32 V DC		F	
T2 Voc			36 V _{DC}	В		
R4 Vpc			48 V _{DC}	С		
96 V _{DC}			72 V _{DC}	D		
110 V _{DC} E 220 V _{DC} J 18 Auxiliary contacts BMS - per pole 1a + 1b - (switch PF) - silver type 1a + 1b - (switch PF) - gold type 2a + 2b - (switch PF) - gold type 2a + 2b - (switch PF) - gold type 4a + 4b - (switch PF) - gold type 4a + 4b - (switch PF) - gold type 4a + 4b - (switch PF) - gold type P			84 V _{DC}		Н	
18 Auxiliary contacts BMS - per pole 1a + 1b - (switch PF) - silver type 1a + 1b - (switch PF) - gold type 2a + 2b - (switch PF) - gold type 2a + 2b - (switch PF) - gold type 4a + 3b - (switch PF) - gold type 4a + 4b - (switch PF) - gold type 4a + 4b - (switch PF) - gold type 4a + 4b - (switch PF) - gold type 4a + 4b - (switch PF) - gold type P			96 V _{DC}			
18 Auxiliary contacts BMS - per pole 1a + 1b - (switch PF) - silver type A 1a + 1b - (switch PF) - gold type C 2a + 2b - (switch PF) - silver type E 2a + 2b - (switch PF) - gold type H 3a + 3b - (switch PF) - silver type K 3a + 3b - (switch PF) - gold type M 4a + 4b - (switch PF) - gold type O 4a + 4b - (switch PF) - gold type P			110 V _{DC}	Е		
18 Auxiliary contacts BMS - per pole 1a + 1b - (switch PF) - silver type A 1a + 1b - (switch PF) - gold type C 2a + 2b - (switch PF) - silver type E 2a + 2b - (switch PF) - gold type H 3a + 3b - (switch PF) - silver type K 3a + 3b - (switch PF) - gold type M 4a + 4b - (switch PF) - gold type O 4a + 4b - (switch PF) - gold type P			220 V _{DC}		1	
1a + 1b - (switch PF) - gold type C 2a + 2b - (switch PF) - silver type E 2a + 2b - (switch PF) - gold type H 3a + 3b - (switch PF) - silver type K 3a + 3b - (switch PF) - gold type M 4a + 4b - (switch PF) - silver type O 4a + 4b - (switch PF) - gold type P	18	Auxiliary contacts BMS - per pole	1a + 1b - (switch PF) - silver type	Α		
2a + 2b - (switch PF) - silver type E 2a + 2b - (switch PF) - gold type H 3a + 3b - (switch PF) - silver type K 3a + 3b - (switch PF) - gold type M 4a + 4b - (switch PF) - silver type O 4a + 4b - (switch PF) - gold type P					С	
2a + 2b - (switch PF) - gold type H 3a + 3b - (switch PF) - silver type K 3a + 3b - (switch PF) - gold type M 4a + 4b - (switch PF) - silver type O 4a + 4b - (switch PF) - gold type P					Е	
3a + 3b - (switch PF) - silver type K 3a + 3b - (switch PF) - gold type M 4a + 4b - (switch PF) - silver type O 4a + 4b - (switch PF) - gold type P			The state of the s		Н	
3a + 3b - (switch PF) - gold type M 4a + 4b - (switch PF) - silver type O 4a + 4b - (switch PF) - gold type P					K	
4a + 4b - (switch PF) - silver type O 4a + 4b - (switch PF) - gold type P						
4a + 4b - (switch PF) - gold type P						
15 Advindi y Contacto (1 CC 10) 1	19	Auxiliary contacts (PCC18) (3)	(No PCC18) Not applicable	Z		
1a + 1b - (switch PF) - silver type 1					1	
1a + 1b - (switch PF) - gold type 2						
2a + 2b - (switch PF) - silver type 3						
2a + 2b - (switch PF) - gold type 4						
20 Installation configuration Horizontal only H	20	Installation configuration		Н		
Horizontal & V		3			V	
21 Application type (Direct Current) DC D	21	Application type		D		
- (Alternating Current) AC A		-	· · · · · · · · · · · · · · · · · · ·	_	Α	
22 Opening BMS arc chute Arc chute Arc chute lever A A	22	Opening BMS arc chute		Α		Α

⁽¹⁾ For DC and AC voltage up to 60 Hz frequency. For higher frequency, please contact Sécheron •

⁽³⁾ PCC18 is valid for horizontal mounting only and for BMS.. 1 or 2 poles. •





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For the available control voltage in function of the BMS configuration, refer to table page 9. Please note that BMS is delivered with low voltage surge protection •