

Ratings and Specifications

Moulded Case Circuit Breakers

7 Switch-disconnectors

Frame size (A)		30	50	100	125	100	125	100	125
Type		PE30-NN	PE50-NN	PE125-NN		S125-SN		PS125-NN	
Number of poles		2 3	2 3	2 3	2 3	3 4	3 4	3 4	3 4
Ratings									
Rated current, A		30	50	100	125	100	125	100	125
Rated insulation voltage [<i>U</i> _i] V		690	690	690	690	690	690	800	800
Rated operational voltage V	AC	415	500	500	500	690	690	690	690
······································	DC	_	250 27	250 27	250 27)	250	250	250	250
Rated impulse withstand voltage [U _{imp}] kV		8	8	8	8	8	8	8	8
Rated short circuit making capacity (I _{cm}) kA pea	ak	1.5	1.5	2.13	2.13	2.8	2.8	2.8	2.8
Rated short time withstand current (I _{cw}) kA		1 (1sec.)	1 (1sec.)	1.5 (0.3sec.)	1.5 (0.3sec.)	2 (0.3sec.)	2 (0.3sec.)	2 (1sec.)	2 (1sec.)
Performance		. (. (1000)					(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Utilization category	AC	AC-23A	AC-23A	AC-23A	AC-23A	AC-23A	AC-23A	AC-23A	AC-23A
JIS C 8201-3 IEC 60947-3	DC	_	DC-22A	DC-22A	DC-22A	DC-22A	DC-22A	DC-22A	DC-22A
Upstream breaker (OCPD) 29		PE30-NF	PE50-NF	PE125-NF	PE125-NF	S125-SF	S125-SF	PS125-NF	PS125-NF
■External dimensions, mm		1 200 111	1 200 111	12120 111	1 2 1 2 0 1 1 1	0.20 0.	0120 01	10120 111	10120 111
	a	50 75	50 75	50 75	50 75	75 100	75 100	90 120	90 120
a c-	b	130	130	130	130	130	130	130	130
		68	68	68	68	68	68	68	68
	d	90	90	90	90	95	95	95.5	95.5
Weight (● marked standard type) kg		0.5 0.7	0.5 0.7	0.5 0.7	0.5 0.7	0.7 0.9	0.7 0.9	1.0 1.3	1.0 1.3
■Connections and Mountings	_								
Front-connected (FC) Terminal screws		45	⊕ 45	•	•	•	•	•	•
With extension bars		<u> </u>	<u> </u>		<u> </u>	O (53)	<u> </u>	<u> </u>	<u> </u>
Rear-connected (RC) Flat bar studs		0	0	- 5	0	0	- 0	- 0	- 0
Plug-in (PM) For switchboards High-performance (F	PMB)	_						<u> </u>	O 50
Standard (PMC)		- 0	- 10	- 10	- 10	0 -	0 -	0 -	0 -
For distribution boards (PMC)		O 85	O 85	0.85	O 85	O 85 —	O 85 -	O 85 -	O 85 —
(PMD)		○ 87	087		087	089 -	080 -	080 -	089 -
Flush-mounted (FP) With flat bar studs		0	0		0	0 -	0 -	0	0
Draw-out type (DR)		_	_		_				
TemPlug70 (PG)		_	_		_	0 -	0 -	 	- -
DIN rail mount		- 010	- 00	00	- 010	010	00	00	00
■Accessories (optional) Sy	mbol		- · · · · · · · · · · · · · · · · · · ·			-	_	_	
Auxiliary switch ■	АХ	•	•	•	•	•		•	•
Alarm switch	ΑL	•	•	•	•	•	•	•	•
Shunt trips	SH	•	•	•	•	•	•	•	•
Undervoltage trips	UV	•	•	•	•	•	•	•	•
Motor operator	МС				=	=		•	•
External operating Breaker-mounted	ΗВ	-	- •	- •	- •	•	•	•	•
handle Door-mounted (variable depth)	ΗР	-	- •	- •	-	•	•	•	•
Toggle extension	ΗА								
Mechanical Slide type	MS	-	- •	- •	- •	•	•	•	•
Mechanical Slide type Rear-connected type Link type	ΜВ								
Link type	ML							•	•
Wire type	MW	=						•	•
Toggle holder Toggle lock	НН	•	•	•	•	•	•	•	•
Toggle lock	ΗL	•	•	•	•	•	•	•	•
Terminal cover For front-connected	CF	•	•	•	•	•	•	•	•
For rear-connected and plug-in		•	•	•	•	•	•	•	•
Terminal block for lead	ΤF	•	•	•	•	•	•	•	•
Door flange	DF	•	•	•	•	•	•	•	•
CE marking		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Colour of cover		Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue
Trip button (Colour)		Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)
Suitability for isolation		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Reverse connection		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Page of characteristics and outline dimensions		7-98	7-98	7-100	7-100	7-102	7-102	7-104	7-104
				_		-	_	_	

Notes:

- $\textcircled{\textbf{$\bullet$}} : \textbf{Standard. This configuration used unless otherwise specified. } \bigcirc \textbf{:} \textbf{Optional standard. Specify when ordering.}$
- : "yes" or "available". -: "no" or "not available".
- ① : Please order the DIN rail adapter separately. See page 6-156. ② : Applicable to only 2 poles breakers.
- Please use upstream breaker for overcurrent protection. Rated conditional short-circuit current [Icc] will be the same as Rated short-circuit breaking capacity of upstream breaker.
- (4): A wire clamping terminal is provided.
- 3 : A safety trip function is provided.
 4 : For the extension bars, please place the order separately in parts.
 5 : If you do not require internal accessories, please specify PMC.
 6 : If you require internal accessories, please specify PMD.



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7 Switch-disconnectors

Frame size (A)		225 250		225 250			400		600						
Type		S250-S	N			PS250	n-NN			PS400	-NN	PS630	-NN		
Number of poles			4	3	4	3	4	3	4	3	4	3	4		
■Ratings					1.		1.		1.		1.	. —	<u> </u>		
Rated current, A		225		250		225		250		400		600 79		-	_
Rated insulation voltage (U_i) V		690		690		800		800		800		800			
Rated operational voltage V	AC	690		690		690		690		690		690			
nated operational voltage v	DC	250		250		250		250		250		250			
D	DC	250		250											
Rated impulse withstand voltage (U _{imp}) kV		8		. 8		- 8		- 8		- 8		8			
Rated short circuit making capacity (I _{cm}) kA pea	ak	6		. 6		5		5		7.6	`	13			
Rated short time withstand current ($I_{\rm CW}$) kA		3 (0.3se	ec.)	3 (0.3	Bsec.)	3.6 (1	sec.)	3.6 (1	sec.)	5 (1se	c.)	7.6 (1:	sec.)		
Performance															_
Utilization category	AC	AC-23A	١.	AC-2	3 A	AC-23A	3A	AC-23A		AC-23A			A(500A)		
JIS C 8201-3 IEC 60947-3												AC-22	A(600A)		
	DC	DC-22A	١	DC-22A		DC-22A		DC-22A		DC-22A		DC-22	Α		
Upstream breaker (OCPD) 29		S250-S	F	S250-	·SF	PS250)-PF	PS250)-PF	PS400	-NF	PS630	-NF		
■External dimensions, mm															
	а	105	140	105	140	105	140	105	140	140	185	140	185		_
-a - d - d -	b	165		165		165		165		260		260			_
		68		68		68		68		103		103			
	d	95		95		95.5		95.5		151		151			
Majaht (@ mayled atondayd type) les	u		1.0	1.5	1.0		2.0		2.0	5.4	7.0		7.7		
Weight (marked standard type) kg Connections and Mountings		1.5	1.9	1.5	1.9	1.5	2.0	1.5	2.0	5.4	7.2	5.7	1./		_
-						_				_				-	
Front-connected (FC) Terminal screws		0 0													_
With extension bars		<u>0 53</u>		0 53		<u> </u>		0 53				<u> </u>			_
Rear-connected (RC) Flat bar studs		0		. 0								<u> </u>			
Plug-in (PM) For switchboards High-performance (PMB)					<u>0 50</u>		<u>0 50</u>		O 50		O 50			<u> </u>
Standard (PMC)		0		<u> </u>					_		_				
For distribution boards (PMC)															
(PMD)		_		_		_		_		_		_			
Flush-mounted (FP) With flat bar studs		0		0		0		0		0		0			
Draw-out type (DR)		_				_		_		A		<u> </u>			
TemPlug70 (PG)		0	_	0	_		_	<u> </u>	_	0	_	0	_		
DIN rail mount				_							-				
	ymbol														_
	AX														
Alarm switch	AL														
Shunt trips	SH														
Undervoltage trips	UV														
						-									
Motor operator	MC	_		-								-			
External operating Breaker-mounted	HB	•		_				-		-		•			
handle Door-mounted (variable depth)	H P					_		_		_					
Toggle extension	HA									•		•			
Mechanical Slide type	MS	•		•		_		. •		•		•			
Mechanical Slide type interlock Rear-connected type interlock Slide type Link type	MB														
	ML					•		•		•		•			
Wire type Toggle holder Toggle lock	MW	•		•		•		•		•		•		-	·
Toggle holder	НН	•		•		•		•		•		•			
Toggle lock	ΗL	•		•		•		•		•		•			
Terminal cover For front-connected	CF					•		•		•		•			
For rear-connected and plug-in								<u> </u>		<u> </u>		•			
Terminal block for lead	TF											-			
Door flange	DF					_		-		_		_			
	υr			Von		- -		Yes		Voc		Yes			
CE marking				Yes Grey Blue		Yes Grey Blue				Yes Phus			21		
Colour of cover		Grey Bl								Grey Blue		Grey I			
Trip button (Colour)		Yes (Re	ed)	Yes (I	Hed)	Yes (F	⊣ed)	Yes (F	Red)	Yes (Red)		Yes (F	led)		
Suitability for isolation		Yes		Yes		Yes		Yes		Yes		Yes			
Reverse connection		Yes		Yes		Yes		Yes		Yes		Yes			
Page of characteristics and outline dimensions		7-106		7-106		7-108		7-108		7-110		7-112			
	_										-		_		· · · · · · · · · · · · · · · · · · ·

Notes:

- $\textcircled{$\bullet$} : \textbf{Standard. This configuration used unless otherwise specified. } \bigcirc \textbf{:} \textbf{Optional standard. Specify when ordering.}$
- ▲ : Semi-standard. : "yes" or "available". : "no" or "not available".
- (a): Mechanical interlocks cannot be applied to draw-out type (DR).

 (b): Please use upstream breaker for overcurrent protection. Rated conditional short-circuit current [Icc] will be the same as Rated short-circuit breaking capacity of upstream breaker.
 (c): A safety trip function is provided.
- (9: Plug-in type (PM), draw-out type (DR), and TemPlug70 (PG) are only rated current 500A.



Ratings and Specifications

Moulded Case Circuit Breakers

7 Switch-disconnectors

Frame size (A)			600	630	800	1000	1250	1600	
Туре			S630-GN		S800-NN	S1000-NN	S1250-NN	S1600-NN	
Number of poles			3 4	3 4	3 4	3 4	3 4	3 4	
Ratings			<u> </u>			<u> </u>	· • · · ·	<u> </u>	
Rated current, A			600	630	800	1000	1250	1600	 ·
Rated insulation vo	oltage (Ui) V		690	690	690	690	690	690	
Rated operational		AC	690	690	690	690	690	690	
nateu operational	voltage v	DC	250	250	250	250	250	250	
Data di bassada a said		DC		8		_ 250 8	8	_	
	nstand voltage (U _{imp}) kV		8	- ° 17	- 8 17			- <u>8</u>	
	t making capacity (I _{cm}) kA per	ак	17			17	32	45	
	vithstand current (I _{cw}) kA		10 (0.3sec.)	10 (0.3sec.)	10 (0.3sec.)	10 (0.3sec.)	15 (0.3sec.)	20 (0.3sec.)	
Performance					_				
Utilization categor	-	AC	AC-23A	AC-23A	AC-23A	AC-23A	AC-23A	AC-23A	
JIS C 8201-3 IEC		DC	DC-22A	DC-22A	DC-22A	DC-22A	DC-22A	DC-22A	
Upstream breaker	(OCPD) 29		S630-NF	S630-NF	S800-NF	S1000-CE	S1250-NE	S1600-NE	
External dimens	sions, mm								
—a ·	d _c -	а	210 280	210 280	210 280	210 280	210 280	210 280	
		b	273	273	273	273	370	370	
]	c	103	103	103	103	120	140	
		d	145	145	145	145	171	191	·
Weight (@ marked	d standard type) kg		8.0 11.0	8.0 11.0	8.5 11.5	10.4 14.0	18.2 23.4	24.9 32.9	 . —
■Connections an									 . ———
Front-connected (F	-								
Tront connected (i	With extension bars		•	•	•	•	•	0	
Rear-connected (F				- -	- 💍	- 💆 —	- 🖰		
	switchboards High-performance (DMD)	O (51)	O (51)	_ <u>0</u>	- =	- =		
Flug-III (FlvI) Fol S		rivib)	0 -	0 1-	- 0 -	- =		- =	
=	Standard (PMC)		0 -	0 1-	_		. 9		
For	distribution boards (PMC)				_ =	- =			
	(PMD)				- =		- 	- =	
Flush-mounted (FR	/		0	<u> </u>					
Draw-out type (DR)			<u> </u>		_ 📤			<u> </u>	
TemPlug70 (PG)			0 -	0 –					
DIN rail mount									
Accessories (op	otional) S	ymbol							
Auxiliary switch	1	ΑX	•	•	•	•	•	•	
a Alarm switch		ΑL							
Shunt trips		SH							
≝ Undervoltage tr	rips	UV	•		•	•	•	•	
Motor operator	•	МС	•	•	•	•	•	•	
External operating	Breaker-mounted	ΗВ	•	•	•	•	•	•	
handle	Door-mounted (variable depth)	ΗP	•	•	-	•	•	•	
Toggle extension		НА		•		•	• 24	• <u>24</u>	
	Slide type	MS	•	•		-	-	- 👅	
Mechanical interlock (9)	Rear-connected type	MB			- -	- -			
E 9	Link type	ML			_	_			
≥ 3	Wire type	MW			- =			_	 · ——
E	wife type								
Toggle holder Toggle lock		<u> </u>	•		•	•			
		H L							
I erminal cover	For front-connected	CF	•	•	_ •	•	•		
	For rear-connected and plug-in		•	•	_ •	. •			
Terminal block	tor lead	TF	•	. •	_ •	. •	. •	. •	
Door flange		DF	•	•	•	•	•	•	
CE marking			Yes	Yes	Yes	Yes	Yes	Yes	
Colour of cover			Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	
Trip button (Colou	ır)		Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)	Yes (Red)	
Suitability for isolation			Yes	Yes	Yes	Yes	Yes	Yes	
Reverse connection			Yes	Yes	Yes	Yes	Yes	Yes	
	istics and outline dimensions		7-114	7-114	7-114	7-114	7-116	7-118	

- Standard. This configuration used unless otherwise specified. ○: Optional standard. Specify when ordering.
 Semi-standard.
 "yes" or "available". -: "no" or "not available".
- (9): Mechanical interlocks cannot be applied to draw-out type (DR).
- ②: One is supplied with every five breakers. Please specify if more are required.
- ② : Please use upstream breaker for overcurrent protection. Rated conditional short-circuit current [Icc] will be the same as Rated short-circuit breaking capacity of upstream breaker.
- (f): A safety lock function is provided.