

Ratings and Specifications

Moulded Case Circuit Breakers

5 Switch-disconnectors

Frame size (A)									
Туре		S160-SN	P160D	S250-SN	P250D	P400D	P630D	S800-NN	S1000-NN
Number of poles		3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4
Ratings									
Rated current, A		160	160 35	250	250 46	400	630	630	1000
Rating at		50°C	50°C	50°C	50°C	50°C	50°C	800 50℃	50°C
Rated insulation vo	oltage (II) V AC	690	800	800	800	800	800	800	800
Rated operational v		690	690	690	690	690	690	690	690
riated operational v	DC	250	250	250	250	250	250	250	250
Rated impulse with	istand voltage (U_{imp}) kV	8	8	8	8	8	8	8	8
	making capacity [I _{cm}] kA peak	2.8	2.8	6	5	7.6	13	17	17
	ithstand current (I _{cw}) kA	2 (0.3sec.)	2 (1sec.)	3 (0.3sec.)	3.6 (1sec.)	5 (1sec.)	7.6 (1sec.)	10 (0.3sec.)	10 (0.3sec.)
Performance	interaction Copys (a)	2 (0.0000.)	2 (1000.)	<u> </u>	0.0 (1000.)	3 (1000.)	7.0 (1000.)	(0.0000.)	10 (0.0000.)
Utilization category	AC	AC-23A	AC-23A	AC-23A	AC-23A	AC-23A	AC-23A 37	AC-23A	AC-23A
IEC 60947-3	DC	DC-22A	DC-22A	DC-22A	DC-22A	DC-22A	DC-22A	DC-22A	DC-22A
Upstream breaker ((OCPD) ②	E160-SJ	P160F	E250-SJ	P250F	P400N	P630N	S800-NJ	S1000-NE
■External dimens		-		-		-			
—a-	a	75 100	90 120	105 140	105 140	140 185	140 185	210 280	210 280
	b	130	130	165	165	260	260	273	273
	c	68	68	68	68	103	103	103	103
	d	95	95.5	95	95.5	151	151	145	145
Weight (marked	standard type) kg	0.7 0.9	1.0 1.3	1.5 1.9	1.5 2.0	5.4 7.2	5.7 7.7	8.5(3) 11.5(4)	10.4 14.0
■Connections and	d Mountings								
Front-connected	Terminal screws (FC)	•	•	•	•	•	•		_
	With extension bars (FB)	05	O (5)	0 (5)	05	0	0	•	•
	Cable clamp (FW)	0	0	0	0	0	0	_	_
Rear-connected	Flat bar studs (RC)	0	0	0	0	0	0	0	0
Plug-in (PM)	For switchboards (PMB)	_	0	_	○ ②	O 23	_	O 24	_
Draw-out type	(DR)				A	A		A	
DIN rail mount	(DA)	O (4)	<u>0</u> (4)						
Accessories (op	· · · · · · · · · · · · · · · · · · ·								
죝 Auxiliary switch		•	•	•	•	•	•	•	•
Alarm switch	A L	•	•	•	•	•	•	•	•
Shunt trips	SH	•	•	•	•	•	•	•	•
置 Undervoltage tri		•	•	•	•	•	•	•	•
Motor operator	M C		•	. •	. •	. •	•	•	•
, ,	Breaker-mounted HB	•	•	•	•	•	•	•	•
handle	Door-mounted (variable depth) H P	•	•	•	•	•	•	•	•
Toggle extensio							-		•
Mechanical	Slide type M S	•	-	•		•	•		-
interlock 19	Link type M L			•	_	•	-		
Townlo bolder	Wire type MW				- 📜				•
Toggle holder a Toggle lock	HH HL				_			•	•
	For front-connected C F	•	-	-	-	-	-		
ш тенніпан cover	For rear-connected and plug-in C R	•	-	-	-	-	-		=
	For cable clamps C S		_	_	_				
Terminal block f	•	•	-	-	_	-	-		•
Door flange	D F	-	-	-	_	-	-	-	-
CE marking	DI	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 isola		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Reverse connection		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Endurance	Electrical 415V	10,000 ⑦	30,000	6,000	10,000	6,000	4,000	4,000	4,000
	Mechanical	20,000	50,000	18,000	30,000	15,000	15,000	10,000	10,000
Notoo				,		-,	,		-,

Notes:

- $\ensuremath{\ensuremath}\amb}\amb}\amb}}}}}}}}}}}}}}$
- : Optional standard. Specify when ordering. ▲ : Semi-standard.
 : "yes" or "available". : "no" or "not available".
- Please order the DIN rail adapter separately.
- ⑤ : For the extension bars, please place the order separately in parts.
- ⑦: 14,000 for less than 125A
- (3): 8.0kg/630A, 8.5kg/800A
- (4): 11.0kg/630A, 11.5kg/800A
- (9): Mechanical interlocks cannot be applied to draw-out type (DR).
- 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.
- $\ensuremath{\ensuremath{\varnothing}}$: A safety trip function is provided.
- $\ensuremath{\mathfrak{D}}$: A safety lock function is provided.
- \$\text{\$\frac{1}{3}}\$: Max. rating 125A at 50°C for Plug-in.
 \$\text{\$\text{\$\gamma}\$}\$: AC-23A/up to 500A, AC-22A/up to 630A
- 46: Max. rating 227A at 50°C for Plug-in.



Ratings and Specifications

Moulded Case Circuit Breakers

5 Switch-disconnectors

ame size (A)				
Type			S1250-NN	S1600-NN
Number of poles			3 4	3 4
Ratings				
Rated current, A		-	1250	1600
Rating at			50°C	50°C
Rated insulation vo	ltage (Ui) V AC		800	800
Rated operational v	voltage (U _e) V	AC	690	690
		DC	250	250
Rated impulse with	stand voltage (U _{imp}) kV		8	8
	making capacity (I _{cm}) kA pea	ak	32	45
	ithstand current (I _{cw}) kA		15 (0.3sec.)	20 (0.3sec.)
Performance				
Utilization category		AC	AC-23A	AC-23A
IEC 60947-3		DC	DC-22A	DC-22A
Upstream breaker ((OCPD) Ø		S1250-NE	S1600-NE
External dimens			31230-INL	31000-11
=External dimens	iono, iiiii		210 280	210 280
—a —	d _c -	<u>a</u> b	370	370
目			120	140
] î '4	C		
M = i = l= t (@ == = = = = = = = = = = = = = = = = =		d	171	
Weight (marked			18.2 23.4	24.9 32.9
Connections and		(50)		_
	Terminal screws	(FC)		- =
_	With extension bars	(FB)	•	0
	Cable clamp	(FW)		
	Flat bar studs	(RC)	0	<u> </u>
	For switchboards	(PMC)	0	
Draw-out type		(DR)	_	0
DIN rail mount		(DA)	_	_
Accessories (op	tional) S	Symbol		
Auxiliary switch		АХ	•	•
Alarm switch		ΑL	•	•
Shunt trips		SH	•	•
Undervoltage tri	ps	UV	•	•
Motor operator		MC	•	•
	Breaker-mounted	H B	_	- 🚣
handle	Door-mounted (variable depth)		•	-
Toggle extensio		HA	● ②	0 2
	Slide type	MS		
interlock (19	Link type	M L	-	- -
Mechanical interlock (9)	Wire type	MW	•	_
E ≥	Rear-connected type	MB	•	- =
Toggle holder	rioar-connected type	HH		
Toggle holder Toggle lock		HL	•	•
Terminal cover	For front-connected	C F	•	
i erminai cover				- =
	For rear-connected and plug-in			- =
	For cable clamps	C S		
Terminal block f	or lead	T F	•	_ •
Door flange		DF	•	_ •
CE marking			Yes	Yes
Colour of cover			Grey Blue	Grey Blue
Trip button (Colour			Yes (Red)	Yes (Red)
Suitability for isola	tion		Yes	Yes
Reverse connection	on		Yes	Yes
Endurance	Electrical	415V	4,000	2,000
	Mechanical		5,000	5,000

- $\ensuremath{ \odot}$: Standard. This configuration used unless otherwise specified.
- \bigcirc : Optional standard. Specify when ordering. \blacktriangle : Semi-standard.
- "yes" or "available". —: "no" or "not available".
 One is supplied with every five breakers. Please specify if more are required.
- (9): Mechanical interlocks cannot be applied to draw-out type (DR).
- 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.