

2

Ratings and Specifications

Moulded Case Circuit Breakers

2 Standard series

Frame size (A)	30		50		50			60				
Type	PS30-NF		PS50-NF		S50-SF			PS60-NF				
Number of poles	2	3	2	3	2	3	4	2	3			
■ Ratings												
Rated current, A	3		15		15			60				
Calibrated at 40°C	5		20		20							
45°C	10		30		30							
	15		40		40							
	20		50		50							
	30											
Rated insulation voltage [U_i] V	690		690		690			690				
Rated impulse withstand voltage [U_{imp}] kV	8		8		8			8				
Rated short time withstand current [I_{sw}] kA	—		—		—			—				
Utilization Category	A		A		A			A				
■ Rated breaking capacity, kA												
JIS C 8201-2-1 Ann.1 Ann.2	AC	690V	—		6/3			—				
IEC 60947-2		500V	2.5/2.5		7.5/7.5			12/6				
I_{cu}/I_{cs} (sym)		440V	2.5/2.5		7.5/7.5			25/13				
		415V	2.5/2.5		7.5/7.5			30/15				
		380V	5/5		7.5/7.5			30/15				
		240V	7.5/7.5		15/15			50/25				
	① DC	250V	2.5/2.5 ⑰ ⑱ ㉔		7.5/7.5 ⑰ ㉔			25/13 ⑰ ㉔				
		125V	2.5/2.5 ⑰ ⑱ ㉔		7.5/7.5 ⑰ ㉔			40/20 ⑰ ㉔				
NK	AC	690V	—		—			—				
I_{cu}/I_{cs} (sym)		450V	2.5/2.5 ㉓		7.5/7.5 ㉓			25/13				
		240V	7.5/7.5 ㉓		15/15 ㉓			50/25				
	① DC	250V	2.5/2.5 ⑰ ⑱ ㉔ ㉓		7.5/7.5 ⑰ ㉔ ㉓			25/13 ⑰ ㉔				
■ External dimensions, mm												
		a	50	75	50	75	50	75	100	50	75	
		b	130	130	130		130			130		
		c	68	68	68		68			68		
		d	90	90	90		95			90		
Weight (● marked standard type) kg			0.5	0.7	0.5	0.7	0.6	0.8	1.0	0.6	0.8	
■ Connections and Mountings												
Front-connected (FC)	Terminal screws	● 45	● 45		● 45			●				
	With extension bars	○ 53	○ 53		○ 53			○ 53				
Rear-connected (RC)	Flat bar studs	○	○		○			○				
Plug-in (PM) For switchboards	High-performance (PMB)	—	—		—			—				
	Standard (PMC)	—	○		—			○				
	For distribution boards (PMC)	○ 85	○ 85		○ 85			—				
	(PMD)	○ 87	○ 87		○ 87			—				
Flush-mounted (FP)	With flat bar studs	○	○		○			○				
Draw-out type (DR)		—	—		—			—				
TemPlug70 (PG)		—	—		○			—				
DIN rail mount		—	○ ⑴		—			○ ⑴				
■ Accessories (optional)												
		Symbol										
Internally mounted	Auxiliary switch	A X	●		●			●				
	Alarm switch	A L	●		●			●				
	Shunt trips	S H	●		●			●				
	Undervoltage trips	U V	●		●			●				
	Motor operator	M C	—		—			—				
Externally mounted	External operating handle	Breaker-mounted H B	— ●		— ●			— ●				
		Door-mounted (variable depth) H P	— ●		— ●			— ●				
	Toggle extension	H A	—		—			—				
	Mechanical interlock	Slide type M S	— ●		— ●			— ●				
		Rear-connected type M B	—		—			—				
		Link type M L	—		—			—				
		Wire type M W	—		—			—				
	Toggle holder	H H	●		●			●				
	Toggle lock	H L	●		●			●				
	Terminal cover	For front-connected C F	●		●			●				
		For rear-connected and plug-in C R	●		●			●				
	Terminal block for lead	T F	●		●			●				
	Door flange	D F	●		●			●				
CE marking		Yes	Yes		Yes			Yes				
Overcurrent trip mechanism		Thermal-magnetic ⑦	Thermal-magnetic		Thermal-magnetic			Thermal-magnetic				
Colour of cover		Grey Blue	Grey Blue		Grey Blue			Grey Blue				
Trip button (Colour)		Yes (Red)	Yes (Red)		Yes (Red)			Yes (Red)				
Suitability for isolation		Yes	Yes		Yes			Yes				
Reverse connection		Yes ⑳	Yes		Yes			Yes				
Page of characteristics and outline dimensions		7-4	7-4		7-6			7-8				

Notes:

- : Standard. This configuration used unless otherwise specified. ○ : Optional standard. Specify when ordering.
- : "yes" or "available". — : "no" or "not available".
- ① : DC is a special specification. When ordering, please specify DC. ⑦ : Hydraulic-magnetic type for below 10A rating.
- ⑴ : Please order the DIN rail adapter separately. See page 6-156.
- ⑰ : See page 4-7 for the instantaneous trip value when using with DC. ⑱ : Only applicable for 15 A and above. ㉔ : Applicable to only 2 poles breakers.
- 45 : A wire clamping terminal is provided. 53 : For the extension bars, please place the order separately in parts. ㉔ : There are some limitations. See page 5-23 for details. 83 : This is the planned application value.
- 85 : If you do not require internal accessories, please specify PMC. 87 : If you require internal accessories, please specify PMD.

2

Ratings and Specifications

Moulded Case Circuit Breakers

2 Standard series

Frame size (A)	100			125			100			125									
	S125-SF						PS125-NF												
Type	2			3			4			2			3			4			
Number of poles	2			3			4			2			3			4			
■ Ratings																			
Rated current, A	15			60			125			15			60			125			
Calibrated at 40°C	20			75			—			20			75			—			
45°C	30			100			—			30			100			—			
	40			—			—			40			—			—			
	50			—			—			50			—			—			
Rated insulation voltage [U_i] V	690			690			800			800			—			—			
Rated impulse withstand voltage [U_{imp}] kV	8			8			8			8			—			—			
Rated short time withstand current [I_{cw}] kA	—			—			—			—			—			—			
Utilization Category	A			A			A			A			—			—			
■ Rated breaking capacity, kA																			
JIS C 8201-2-1 Ann.1 Ann.2	AC	690V	6/3	6/3	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6		
IEC 60947-2		500V	12/6	12/6	12/6	22/22	22/22	22/22	22/22	22/22	22/22	22/22	22/22	22/22	22/22	22/22	22/22		
$I_{cu}/I_{cs}(sym)$		440V	25/13	25/13	25/13	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25		
		415V	30/15	30/15	30/15	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36		
		380V	30/15	30/15	30/15	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36		
		240V	50/25	50/25	50/25	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50		
	① DC	250V	25/13 ⑰ ⑳	25/13 ⑰ ⑳	25/13 ⑰ ⑳	25/19 ⑰ ⑳	25/19 ⑰ ⑳	25/19 ⑰ ⑳	25/19 ⑰ ⑳	25/19 ⑰ ⑳	25/19 ⑰ ⑳	25/19 ⑰ ⑳	25/19 ⑰ ⑳	25/19 ⑰ ⑳	25/19 ⑰ ⑳	25/19 ⑰ ⑳	25/19 ⑰ ⑳		
		125V	40/20 ⑰ ⑳	40/20 ⑰ ⑳	40/20 ⑰ ⑳	25/19 ⑰ ⑳	25/19 ⑰ ⑳	25/19 ⑰ ⑳	25/19 ⑰ ⑳	25/19 ⑰ ⑳	25/19 ⑰ ⑳	25/19 ⑰ ⑳	25/19 ⑰ ⑳	25/19 ⑰ ⑳	25/19 ⑰ ⑳	25/19 ⑰ ⑳	25/19 ⑰ ⑳		
NK	AC	690V	—	—	—	6/6 ③	6/6 ③	6/6 ③	6/6 ③	6/6 ③	6/6 ③	6/6 ③	6/6 ③	6/6 ③	6/6 ③	6/6 ③	6/6 ③		
$I_{cu}/I_{cs}(sym)$		450V	25/13	25/13	25/13	25/25 ③	25/25 ③	25/25 ③	25/25 ③	25/25 ③	25/25 ③	25/25 ③	25/25 ③	25/25 ③	25/25 ③	25/25 ③	25/25 ③		
		240V	50/25	50/25	50/25	50/50 ③	50/50 ③	50/50 ③	50/50 ③	50/50 ③	50/50 ③	50/50 ③	50/50 ③	50/50 ③	50/50 ③	50/50 ③	50/50 ③		
	① DC	250V	25/13 ⑰ ⑳	25/13 ⑰ ⑳	25/13 ⑰ ⑳	25/19 ⑰ ⑳ ③	25/19 ⑰ ⑳ ③	25/19 ⑰ ⑳ ③	25/19 ⑰ ⑳ ③	25/19 ⑰ ⑳ ③	25/19 ⑰ ⑳ ③	25/19 ⑰ ⑳ ③	25/19 ⑰ ⑳ ③	25/19 ⑰ ⑳ ③	25/19 ⑰ ⑳ ③	25/19 ⑰ ⑳ ③	25/19 ⑰ ⑳ ③		
■ External dimensions, mm																			
	a	50	75	100	50	75	100	60	90	120	60	90	120	60	90	120	60	90	120
	b	130	—	—	130	—	—	130	—	—	130	—	—	130	—	—	130	—	—
	c	68	—	—	68	—	—	68	—	—	68	—	—	68	—	—	68	—	—
	d	95	—	—	95	—	—	95.5	—	—	95.5	—	—	95.5	—	—	95.5	—	—
Weight (● marked standard type) kg		0.6	0.8	1.0	0.6	0.8	1.0	0.7	1.0	1.3	0.7	1.0	1.3	0.7	1.0	1.3	0.7	1.0	1.3
■ Connections and Mountings																			
Front-connected (FC)	Terminal screws	● ④	—	—	●	—	—	●	—	—	●	—	—	●	—	—	●	—	—
	With extension bars	○ ⑤③	—	—	○ ⑤③	—	—	○ ⑤③	—	—	○ ⑤③	—	—	○ ⑤③	—	—	○ ⑤③	—	—
Rear-connected (RC)	Flat bar studs	○	—	—	○	—	—	○	—	—	○	—	—	○	—	—	○	—	—
Plug-in (PM)	For switchboards	—	—	—	—	—	—	—	○ ⑤④	—	—	—	—	—	—	—	—	—	—
	High-performance (PMB)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Standard (PMC)	—	○	—	—	○	—	—	—	—	—	—	—	—	—	—	—	—	—
	For distribution boards (PMC)	○ ⑤⑤	—	—	○ ⑤⑤	—	—	—	○ ⑤⑤	—	—	—	—	—	—	—	—	—	—
	(PMD)	○ ⑤⑦	—	—	○ ⑤⑦	—	—	—	○ ⑤⑦	—	—	—	—	—	—	—	—	—	—
Flush-mounted (FP)	With flat bar studs	○	—	—	○	—	—	○	—	—	○	—	—	○	—	—	○	—	—
Draw-out type (DR)		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TemPlug70 (PG)		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
DIN rail mount		—	○ ①①	—	—	○ ①①	—	—	—	○ ①①	—	—	—	—	—	—	—	—	—
■ Accessories (optional)	Symbol																		
Auxiliary switch	A X	●	—	—	●	—	—	●	—	—	●	—	—	●	—	—	●	—	—
Alarm switch	A L	●	—	—	●	—	—	●	—	—	●	—	—	●	—	—	●	—	—
Shunt trips	S H	●	—	—	●	—	—	●	—	—	●	—	—	●	—	—	●	—	—
Undervoltage trips	U V	●	—	—	●	—	—	●	—	—	●	—	—	●	—	—	●	—	—
Motor operator	M C	—	—	—	—	—	—	—	●	—	—	—	—	—	—	—	—	—	—
External operating handle	Breaker-mounted	H B	—	●	—	●	—	—	●	—	—	●	—	—	●	—	—	●	—
	Door-mounted (variable depth)	H P	—	●	—	●	—	—	●	—	—	●	—	—	●	—	—	●	—
Toggle extension	H A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mechanical interlock	Slide type	M S	—	●	—	●	—	—	●	—	—	●	—	—	●	—	—	●	—
	Rear-connected type	M B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Link type	M L	—	—	—	—	—	—	●	—	—	●	—	—	●	—	—	●	—
	Wire type	M W	—	—	—	—	—	—	●	—	—	●	—	—	●	—	—	●	—
Toggle holder	H H	●	—	—	●	—	—	●	—	—	●	—	—	●	—	—	●	—	—
Toggle lock	H L	●	—	—	●	—	—	●	—	—	●	—	—	●	—	—	●	—	—
Terminal cover	For front-connected	C F	●	—	—	●	—	—	●	—	—	●	—	—	●	—	—	●	—
	For rear-connected and plug-in	C R	●	—	—	●	—	—	●	—	—	●	—	—	●	—	—	●	—
Terminal block for lead	T F	●	—	—	●	—	—	●	—	—	●	—	—	●	—	—	●	—	—
Door flange	D F	●	—	—	●	—	—	●	—	—	●	—	—	●	—	—	●	—	—
CE marking		Yes	—	—	Yes	—	—	Yes	—	—	Yes	—	—	Yes	—	—	Yes	—	—
Overcurrent trip mechanism		Thermal-magnetic	—	—	Thermal-magnetic	—	—	Thermal-magnetic	—	—	Thermal-magnetic	—	—	Thermal-magnetic	—	—	Thermal-magnetic	—	—
Colour of cover		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)	—	—
Suitability for isolation		Yes	—	—	Yes	—	—	Yes	—	—	Yes	—	—	Yes	—	—	Yes	—	—
Reverse connection		Yes	—	—	Yes	—	—	Yes	—	—	Yes	—	—	Yes	—	—	Yes	—	—
Page of characteristics and outline dimensions		7-10	—	—	7-10	—	—	7-12	—	—	7-12	—	—	7-12	—	—	7-12	—	—

Notes:

- : Standard. This configuration used unless otherwise specified. ○ : Optional standard. Specify when ordering.
- : "yes" or "available". — : "no" or "not available".
- ① : DC is a special specification. When ordering, please specify DC.
- ④ : 50A or less is the M5 wire clamping terminal. ①① : Please order the DIN rail adapter separately. See page 6-156.
- ⑰ : See page 4-7 for the instantaneous trip value when using with DC. ⑳ : Applicable to only 2 poles breakers.
- ⑤③ : A safety trip function is provided. ⑤④ : For the extension bars, please place the order separately in parts. ③ : This is the planned application value.
- ⑤⑤ : If you do not require internal accessories, please specify PMC. ⑤⑦ : If you require internal accessories, please specify PMD.

2

Ratings and Specifications

Moulded Case Circuit Breakers

2 Standard series

Frame size (A)	400		400		600		630		600		630		600				
Type	PS400-NF		PS400-NE		S630-CF		S630-CF		S630-NF		S630-NF		PS630-NF				
Number of poles	3	4	3	4	3	4	3	4	3	4	3	4	3	4			
■ Ratings																	
Rated current, A	225		Adjustable		500		630		500		630		500				
Calibrated at 40°C	250		$I_n=250$ $I_n=400$		600		600		600		600		600				
45°C	300		125 175		—		—		78		—		78				
	350		150 200		—		—		—		—		—				
	400		175 225		—		—		—		—		—				
	—		200 250		—		—		—		—		—				
	—		225 300		—		—		—		—		—				
	—		250 350		—		—		—		—		—				
	—		400		—		—		—		—		—				
Rated insulation voltage [U_i] V	800		800		690		690		800		800		800				
Rated impulse withstand voltage [U_{imp}] kV	8		8		8		8		8		8		8				
Rated short time withstand current [I_{cw}] kA	—		5 (0.4sec.)		—		—		—		—		—				
Utilization Category	A		B		A		A		A		A		A				
■ Rated breaking capacity, kA																	
JIS C 8201-2-1 Ann.1 Ann.2	AC	690V	12/12	12/12	10/10	10/10	7/7	20/20	20/20	20/20	20/20	12/12	12/12	12/12			
IEC 60947-2		500V	30/30	30/30	15/15	15/15	25/25	30/30	30/30	30/30	30/30	30/30	30/30	30/30			
$I_{cu}/I_{cs}(sym)$		440V	45/45	45/45	30/30	30/30	30/30	50/50	50/50	50/50	50/50	45/45	45/45	45/45			
		415V	50/50	50/50	36/36	36/36	36/36	50/50	50/50	50/50	50/50	50/50	50/50	50/50			
		380V	50/50	50/50	36/36	36/36	36/36	50/50	50/50	50/50	50/50	50/50	50/50	50/50			
		240V	85/85	85/85	50/50	50/50	50/50	85/85	85/85	85/85	85/85	85/85	85/85	85/85			
	① DC	250V	50/50 ⑰	—	50/50	50/50	25/25 ⑰	50/50	50/50	50/50	50/50	50/50 ⑰	50/50 ⑰	50/50 ⑰			
		125V	50/50 ⑰	—	50/50	50/50	40/40 ⑰	50/50	50/50	50/50	50/50	50/50 ⑰	50/50 ⑰	50/50 ⑰			
	AC	690V	12/12 ③	12/12 ③	10/10	10/10	7/7 ③	20/20	20/20	20/20	20/20	12/12 ③	12/12 ③	12/12 ③			
		450V	45/45 ③	45/45 ③	30/30	30/30	30/30 ③	50/50	50/50	50/50	50/50	45/45 ③	45/45 ③	45/45 ③			
		240V	85/85 ③	85/85 ③	50/50	50/50	50/50 ③	85/85	85/85	85/85	85/85	85/85 ③	85/85 ③	85/85 ③			
	① DC	250V	50/50 ⑰ ③	—	—	—	—	—	—	—	—	—	—	—			
■ External dimensions, mm																	
	a	140	185	140	185	210	280	210	280	140	185	210	280	210	280	140	185
	b	260	260	260	260	273	273	260	273	260	273	273	273	260	273	260	260
	c	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
	d	151	151	151	151	145	145	151	145	151	145	145	145	151	145	151	151
Weight (● marked standard type) kg		5.5	7.3	5.7	7.5	8.0	11.0	8.0	11.0	5.9	7.8	8.0	11.0	8.0	11.0	5.9	7.8
■ Connections and Mountings																	
Front-connected (FC)	Terminal screws	●	●	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	With extension bars	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Rear-connected (RC)	Flat bar studs	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Plug-in (PM)	For switchboards	○ 50	○ 50	○ 50	○ 50	○ 50	○ 50	○ 50	○ 50	○ 50	○ 50	○ 50	○ 50	○ 50	○ 50	○ 50	○ 50
	High-performance (PMB)	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Standard (PMC)	○	—	○	—	○	—	○	—	○	—	○	—	○	—	○	—
	For distribution boards (PMC)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	(PMD)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Flush-mounted (FP)	With flat bar studs	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Draw-out type (DR)		▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
TemPlug70 (PG)		○	—	○	—	○	—	○	—	○	—	○	—	○	—	○	—
DIN rail mount		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
■ Accessories (optional)																	
	Symbol	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Internally mounted	Auxiliary switch	A X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Alarm switch	A L	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Shunt trips	S H	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Undervoltage trips	U V	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Motor operator	M C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Externally mounted	External operating handle	Breaker-mounted	H B	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Door-mounted (variable depth)	H P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Toggle extension	H A	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Mechanical interlock	Slide type	M S	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Rear-connected type	M B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Link type	M L	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Wire type	M W	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Toggle holder	H H	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Toggle lock	H L	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Terminal cover	For front-connected	C F	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	For rear-connected and plug-in	C R	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Terminal block for lead	T F	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Door flange	D F	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
CE marking		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Overcurrent trip mechanism		Thermal-magnetic (adjustable)	Electronic	Thermal-magnetic (adjustable)	Thermal-magnetic (adjustable)	Thermal-magnetic (adjustable)	Thermal-magnetic (adjustable)	Thermal-magnetic (adjustable)	Thermal-magnetic (adjustable)	Thermal-magnetic (adjustable)	Thermal-magnetic (adjustable)	Thermal-magnetic (adjustable)	Thermal-magnetic (adjustable)	Thermal-magnetic (adjustable)	Thermal-magnetic (adjustable)	Thermal-magnetic (adjustable)	Thermal-magnetic (adjustable)
Colour of cover		Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	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)	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	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Reverse connection		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Page of characteristics and outline dimensions		7-44	7-46	7-54	7-54	7-54	7-54	7-58	7-54	7-54	7-54	7-54	7-54	7-58	7-54	7-58	7-58

Notes:

- : Standard. This configuration used unless otherwise specified. ○ : Optional standard. Specify when ordering.
- ▲ : Semi-standard. ● : "yes" or "available". — : "no" or "not available".
- ① : DC is a special specification. When ordering, please specify DC.
- ⑨ : Mechanical interlocks cannot be applied to draw-out type (DR).
- ⑰ : See page 4-7 for the instantaneous trip value when using with DC.
- 50 : A safety trip function is provided. 51 : A safety lock function is provided.
- 78 : Plug-in type (PM), draw-out type (DR), and TemPlug70 (PG) are only 500A. ③ : This is the planned application value.

2

Ratings and Specifications

Moulded Case Circuit Breakers

2 Standard series

Frame size (A)	630		630		800		800		800		1000		1250		1600	
Type	S630-NE		PS630-NE		S800-CF		S800-NF		S800-NE		S1000-CE		S1250-NE		S1600-NE	
Number of poles	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4
■ Ratings																
Rated current, A	Adjustable		Adjustable		700		700		Adjustable		Adjustable		Adjustable		Adjustable	
Calibrated at 40°C	$I_{CT}=630$		$I_h=630$		800		800		$I_{CT}=800$		$I_{CT}=1000$		$I_{CT}=1250$		$I_{CT}=1600$	
	250		250		800		800		350 600		400 800		500 1000		700 1200	
	300		300						400 700		500 900		600 1200		800 1400	
	350		350						450 800		600 1000		700 1250		900 1500	
	400		400						500		700		800		1000 1600	
	500		500													
	600		600													
	630		630													
Rated insulation voltage [U_i] V	690		800		690		690		690		690		690		690	
Rated impulse withstand voltage [U_{imp}] kV	8		8		8		8		8		8		8		8	
Rated short time withstand current [I_{sw}] kA	10 (0.3sec.)		—		—		—		10 (0.3sec.)		—		15 (0.3sec.)		20 (0.3sec.)	
Utilization Category	B		A		A		A		B		A		B		B	
■ Rated breaking capacity, kA																
JIS C 8201-2-1 Ann.1	AC	690V	20/20	12/12	10/10	20/20	20/20	20/20	20/20	25/19	25/20	25/20	25/20	45/34	45/34	45/34
IEC 60947-2		500V	30/30	30/30	15/15	30/30	30/30	30/30	30/30	45/34	45/34	45/34	45/34	65/50	65/50	65/50
I_{cu}/I_{cs} (sym)		440V	50/50	45/45	30/30	50/50	50/50	50/50	50/50	65/50	65/50	65/50	65/50	85/65	85/65	85/65
		415V	50/50	50/50	36/36	50/50	50/50	50/50	50/50	65/50	70/50	70/50	70/50	85/65	85/65	85/65
		380V	50/50	50/50	36/36	50/50	50/50	50/50	50/50	85/50	85/50	85/50	85/50	100/75	100/75	100/75
		240V	85/85	85/85	50/50	85/85	85/85	85/85	85/85	100/75	100/75	100/75	100/75	125/94	125/94	125/94
	① DC	250V	—	—	50/50	50/50	50/50	50/50	—	—	—	—	—	—	—	—
		125V	—	—	50/50	50/50	50/50	—	—	—	—	—	—	—	—	—
NK	AC	690V	20/20	—	10/10	20/20	20/20	—	—	—	—	—	—	25/20	—	—
I_{cu}/I_{cs} (sym)		450V	50/50	—	30/30	50/50	50/50	—	—	—	—	—	—	65/50	—	—
		240V	85/85	—	50/50	85/85	85/85	—	—	—	—	—	—	100/75	—	—
	DC	250V	—	—	—	—	—	—	—	—	—	—	—	—	—	—
■ External dimensions, mm																
			a	210 280	140 185	210 280	210 280	210 280	210 280	210 280	210 280	210 280	210 280	210 280	210 280	210 280
			b	273	260	273	273	273	273	273	273	273	273	370	370	370
			c	103	103	103	103	103	103	103	103	103	103	120	140	140
			d	145	151	145	145	145	145	145	145	145	145	171	191	191
Weight (● marked standard type) kg				8.7 11.9	6.0 8.0	8.5 11.5	8.5 11.5	8.5 11.5	9.1 12.3	11.0 14.8	19.8 25.0	27.0 35.0				
■ Connections and Mountings																
Front-connected (FC)	Terminal screws	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	With extension bars	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○
Rear-connected (RC)	Flat bar studs	○	○	○	○	○	○	○	○	○	○	○	○	○	○	●
Plug-in (PM) For switchboards	High-performance (PMB)	○ ⑤①	—	○ ⑤①	○ ⑤①	○ ⑤①	○ ⑤①	○ ⑤①	○ ⑤①	○	○	○	○	○	○	○
	Standard (PMC)	○	—	○	—	○	—	○	—	○	—	○	—	○	—	—
	For distribution boards (PMC)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	(PMD)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Flush-mounted (FP)	With flat bar studs	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Draw-out type (DR)		▲	—	▲	—	▲	—	▲	—	▲	—	▲	—	▲	—	○
TermPlug70 (PG)		○	—	○	—	○	—	○	—	○	—	○	—	○	—	—
DIN rail mount		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
■ Accessories (optional)																
		Symbol														
Internally mounted	Auxiliary switch	A X	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Alarm switch	A L	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Shunt trips	S H	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Undervoltage trips	U V	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Externally mounted	Motor operator	M C	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	External operating handle	Breaker-mounted H B	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		Door-mounted (variable depth) H P	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Toggle extension	H A	●	●	●	●	●	●	●	●	●	●	●	● ⑳	● ⑳	●
	Mechanical interlock	Slide type M S	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		Rear-connected type M B	—	—	—	—	—	—	—	—	—	—	—	●	●	●
		Link type M L	●	●	●	●	●	●	●	●	●	●	●	—	—	—
		Wire type M W	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Toggle holder	H H	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Toggle lock	H L	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Terminal cover	For front-connected C F	●	●	●	●	●	●	●	●	●	●	●	●	●	—
		For rear-connected and plug-in C R	●	●	●	●	●	●	●	●	●	●	●	—	—	—
Terminal block for lead	T F	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Door flange	D F	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
CE marking		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Overcurrent trip mechanism		Electronic ⑯	Electronic	Thermal-magnetic (adjustable)	Thermal-magnetic (adjustable)	Electronic ⑯	Electronic ⑯	Electronic ⑯	Electronic ⑯	Electronic ⑯	Electronic ⑯	Electronic ⑯	Electronic ⑯	Electronic ⑯	Electronic ⑯	Electronic ⑯
Colour of cover		Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	Grey Blue	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)	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	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Reverse connection		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Page of characteristics and outline dimensions		7-56	7-60	7-68	7-68	7-70	7-74	7-76	7-80							

Notes:

- : Standard. This configuration used unless otherwise specified. ○ : Optional standard. Specify when ordering.
- ▲ : Semi-standard. ● : "yes" or "available". — : "no" or "not available".
- ① : DC is a special specification. When ordering, please specify DC.
- ⑨ : Mechanical interlocks cannot be applied to draw-out type (DR). ⑯ : Optional preferential alarm or ground fault trip function available on request.
- ⑳ : One is supplied with every five breakers. Please specify if more are required.
- ⑤① : A safety lock function is provided.

2

Ratings and Specifications

Moulded Case Circuit Breakers

2 Standard series

Frame size (A)		2000	2500	3200					
Type		XS2000NE	XS2500NE	XS3200NE					
Number of poles		3 4	3 4	3					
■ Ratings									
Rated current, A		Adjustable	Adjustable	Adjustable					
Calibrated at 40°C		$I_{CT}=2000$	$I_{CT}=2500$	$I_{CT}=3200$					
45°C		1000 1600 1200 1800 1400 2000	1200 2000 1400 2500 1600 2500 (40°C only)	1600 2800 2000 3200 2500 (40°C only)					
Rated insulation voltage [U_i] V		690	690	690					
Rated impulse withstand voltage [U_{imp}] kV		8	8	8					
Rated short time withstand current [I_{cw}] kA		42 (0.3sec.)	42 (0.3sec.)	38 (0.5sec.)					
Utilization Category		B	B	B					
■ Rated breaking capacity, kA									
JIS C 8201-2-1 Ann.1 Ann.2	AC	690V 45/42	45/42	45/42					
IEC 60947-2		500V 65/50	65/50	65/50					
$I_{cu}/I_{cs}(sym)$		440V 85/65	85/65	85/65					
		415V 85/65	85/65	85/65					
		380V 100/75	100/75	100/75					
		240V 125/94	125/94	125/94					
	DC	250V —	—	—					
		125V —	—	—					
NK	AC	690V —	—	—					
$I_{cu}/I_{cs}(sym)$		450V 85/— ②①	—	—					
		240V —	—	—					
	DC	250V —	—	—					
■ External dimensions, mm									
		a	320 429	320 429	320				
		b	450	450	450				
		c	185	185	185				
		d	245	245	245				
Weight (● marked standard type) kg		54.0 67.0	64 78.2	65					
■ Connections and Mountings									
Front-connected (FC)	Terminal screws	—	—	—					
	With extension bars	○	—	—					
Rear-connected (RC)	Flat bar studs	●	●	●					
Plug-in (PM)	For switchboards High-performance (PMB)	—	—	—					
	Standard (PMC)	—	—	—					
	For distribution boards (PMC)	—	—	—					
	(PMD)	—	—	—					
Flush-mounted (FP)	With flat bar studs	○	○	○					
Draw-out type (DR)		○	—	—					
TemPlug70 (PG)		—	—	—					
DIN rail mount		—	—	—					
■ Accessories (optional) Symbol									
Internally mounted	Auxiliary switch	A X	●	●	●				
	Alarm switch	A L	●	●	●				
	Shunt trips	S H	●	●	●				
	Undervoltage trips	U V	● ⑥	● ⑥	● ⑥				
Motor operator	M C	—	●	●					
Externally mounted	External operating handle	Breaker-mounted	H B	—	—				
		Door-mounted (variable depth)	H P	● ⑥⑥ (XFE)	● ⑥⑥ (XFE)	● ⑥⑥ (XFE)			
	Toggle extension	H A	● ②	● ②	● ②				
	Mechanical interlock	Slide type	M S	●	●	●			
		Rear-connected type	M B	●	●	●			
		Link type	M L	—	—	—			
		Wire type	M W	—	—	—			
	Toggle holder	H H	●	●	●				
	Toggle lock	H L	●	●	●				
	Terminal cover	For front-connected	C F	—	—	—			
	For rear-connected and plug-in	C R	—	—	—				
Terminal block for lead	T F	●	●	●					
Door flange	D F	●	●	●					
CE marking		Non	Non	Non					
Overcurrent trip mechanism		Electronic ⑩	Electronic ⑩	Electronic ⑩					
Colour of cover		Grey Blue	Grey Blue	Grey Blue					
Trip button (Colour)		Yes (Red)	Yes (Red)	Yes (Red)					
Suitability for isolation		Non	Non	Non					
Reverse connection		Yes	Yes	Yes					
Page of characteristics and outline dimensions		7-82	7-84	7-86					

Notes:

- : Standard. This configuration used unless otherwise specified. ○ : Optional standard. Specify when ordering.
- : "yes" or "available". — : "no" or "not available".
- ② : Supplied as standard. ⑥ : With AC UVTT, the UVTT controller is externally mounted. ⑨ : Mechanical interlocks cannot be applied to draw-out type (DR).
- ⑩ : Optional preferential alarm or ground fault trip function available on request. ⑪ : This is the value for 500V AC.
- ⑥⑥ : Fixed depth, not adjustable. ⑦① : 3000A is also available as special.