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BRIEF CATALOGUE



Better Electric
Better Life

SASSIN

COMPANY SUMMARY



- ☑ **30+** years' experience
- ☑ **32900m²** Factory area
- ☑ **132+** Independently-developed patents
- ☑ **1** Professional laboratory CNAS, KEMA, TUV approved
- ☑ **3** Factories based in Shanghai, Wenzhou
- ☑ **297** International approvals
- ☑ **120+** Countries and regions exported to
- ☑ **1** Hour to Shanghai Yangshan Port



Better Vision

Better Electric, Better Life.



Core Value

Confidence, Faith, Credit.



Sacred Mission

Make Electric Safe,
Simple, Smart.

>> Company Profile

Sassin Electric was founded in 1993, and the headquarter is located in Shanghai China. Sassin Electric has 3 sites of own factories and 3 sites of joint venture factories. Sassin Electric was certified with ISO9001, ISO14001, and products were certified with KEMA, CB, VDE, SEMKO, TUV, etc.

As a leading manufacturer in the low-voltage electrical field in China, Sassin Electric has gathered a talented team with profound electric industry background and expertise, to research and develop Sassin's uniquely designed electrical products and solutions for users in residential, commercial, and industrial fields. Sassin's mission is "Make Electric Safe, Simple, Smart", with this mission, Sassin will pioneer and strive to provide high quality electric products, innovative Intelligent Smart Energy Management Systems to create Better Electric, Better Life for users.

Sassin brand products were exported to more than 120 countries and regions, enjoyed a good reputation in the market. Sassin has the whole production chain from design, tool making, components processing, assembly, testing and packaging so that Sassin can well control every section in production to make sure Sassin products features "high-stability and high-reliability".

Moreover, Sassin Electric has professional sales and service team, with profound international trade experience. They can communicate in English, Spanish, French, German etc. With the service philosophy of "Professional, Effective, Trust Worthy", Sassin Electric is dedicated to bringing more care, more confidence and more convenience to our clients.

Reliable products, quality services, will bring you more secure power protection!

COMPANY QUALIFICATION

>> Laboratory Accreditation



CNAS Laboratory Accreditation Certificate



DEKRA Certificate of Approval



TÜV Rheinland Cooperative Testing LAB

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ISO14001 Environmental Management System Certificate

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- 3SDS-PV PM2
- 3SDS-PV ELR1




DC fuse

- RT18 Series
- RT16 Series






POWER DISTRIBUTION ELECTRICS

Air Circuit Breakers

Type	3SW68	3SW8	VA51
			
	ACBs Series 3SW68	ACBs Series 3SW8	ACBs Series VA51
Standard	IEC 60947-2	IEC 60947-2	IEC 60947-2
Number of poles (P)	3, 4	3, 4	3, 4
Installation type	Fixed type, withdrawable type	Fixed type, withdrawable type	Fixed type, withdrawable type
Frame type	A, B, C, D	A, B, C	L, M, H
N-pole rated current	100 % I _n	100 % I _n	100 % I _n
Rated operational voltage U _e (V AC)	400/690	400/690	400/690
Rated current in (A)	200~6300	400~6300	400~6300
Rated frequency (Hz)	50/60	50/60	50/60
Rated impulse withstand voltage, U _{imp} (kV)	12	12	12
Ambient temperature (°C)	-5 ~ +40, max. 95 % humidity	-5 ~ +40, max. 95 % humidity	-5 ~ +40, max. 95 % humidity
Storage temperature (°C)	-40~+75	-40~+75	-40~+75
Altitude (meters)	Max. 2000	Max. 2000	Max. 2000




POWER DISTRIBUTION ELECTRICS

Moulded Case Circuit Breakers

Type	3SM29	3SM8N	VM51
	 <p>3SM29 Series with thermal magnetic electronic trip unit</p>	 <p>3SM8N Series with thermal magnetic trip unit</p>	 <p>VM51 Series with thermal magnetic trip unit</p>
Standard	IEC 60947-2	IEC 60947-2 IEC 60947-4-1	IEC 60947-2
Number of poles (P)	3, 4	3, 4	3, 4
Rated current in (A)	16~1600	10~800	10~800
Rated frequency (Hz)	50/60	50/60	50/60
Rated impulse withstand voltage, U _{imp} (kV)	8	6/8	6/8
Frame current I _{nm} (A)	125, 160, 250, 400, 630, 800, 1250, 1600	63, 100, 225, 400, 630, 800	63, 125, 250, 400, 630, 800
Breaking capacity (kA)	20, 35, 50, 65, 80, 100	18, 22, 35, 42, 50, 65, 85, 100	23, 35, 50, 65, 75, 100
Rated operational voltage U _e (V AC)	400/690	400/690	400/690
Rated insulation voltage (V)	800	800	800
Storage temperature (°C)	-40~+75	-40~+75	-40~+75
Altitude (meters)	Max. 2000	Max. 2000	Max. 2000



POWER DISTRIBUTION ELECTRICS

Moulded Case Circuit Breakers

Type	PM61	3SM8E	3SM8L
	 <p>PM61 Series with thermal magnetic trip unit</p>	 <p>3SM8E Series with electronic trip unit</p>	 <p>3SM8L Series with earth leakage protection</p>
Standard	IEC 60947-2	IEC 60947-2 IEC 60947-4-1	IEC 60947-2 IEC 60947-4-1
Number of poles (P)	3, 4	3, 4	3, 4
Rated current in (A)	10~800	16~1600	16~630
Rated frequency (Hz)	50/60	50/60	50/60
Rated impulse withstand voltage, U _{imp} (kV)	8	8	8
Frame current I _{nm} (A)	63, 100, 250, 400, 630, 800	125, 250, 400, 630, 800, 1600	100, 225, 400, 630
Breaking capacity (kA)	20, 35, 50, 70, 75	35, 40, 42, 50, 65	35, 42, 50, 65
Rated operational voltage U _e (V AC)	400	400	400
Rated insulation voltage (V)	800	800	800
Storage temperature (°C)	-40~+70	-40~+75	-40~+70
Altitude (meters)	Max. 2000	Max. 2000	Max. 2000



MODULAR DIN RAIL DEVICES

Miniature Circuit Breakers

Type	3SB71-63	3SB71-125
	 <p>MCB Series 3SB71-63</p>	 <p>MCB Series 3SB71-125</p>
Standard	IEC 60898-1/IEC 60947-2	IEC 60947-2
Characteristic	B,C,D	C,D
Rated current in (A)	0.5, 1, 1.5, 2, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50, 63	80, 100, 125
Rated voltage Un (V AC)	230/400	230/400
Operated voltage (V AC)	MIN24 MAX250/440	MIN24 MAX250/440
Rated frequency (Hz)	50/60	50/60
Number of poles (P)	1, 1P+N, 2, 3, 3P+N, 4	1, 2, 3, 4
Characteristic B (In)	3~5	3~5
Characteristic C (In)	5~10	5~10
Characteristic D (In)	10~20	10~20
Thermal operating Limit (In)	1.13 - 1.45	1.05-1.3
Degree of protection	IP20, with connected conductors	IP20, with connected conductors
Electrical endurance (Cycles)	10000	4000
Mechanical endurance (Cycles)	20000	10000
Rated impulse withstand voltage Uimp (kV)	6	6
Breaking capacity	10kA	10kA
Operation section capacity	7.5kA	7.5kA
Fire resistance according to IEC 60695	960 °C	960 °C
Mounting position	Any	Any
Solid and stranded (mm ²)	0.75-35	1-50
Finely stranded with end sleeve (mm ²)	0.75-25	1-35
Terminal tightening torque (N·m)	2.8	2.8
Ambient temperature (°C)	-25 ~ +45, max. 95 % humidity	-25 ~ +45, max. 95 % humidity
Altitude (meters)	Max 2000	Max 2000




MODULAR DIN RAIL DEVICES

Miniature Circuit Breakers

Type	3SB6	VB510
	 <p>MCB Series 3SB6</p>	 <p>MCB Series VB510</p>
Standard	IEC 60898-1/IEC 60947-2	IEC 60898-1
Characteristic	B,C,D	B, C, D
Rated current in (A)	6, 10, 16, 20, 25, 32, 40, 50, 63, 70, 80, 100	6, 10, 16, 20, 25, 32, 40, 50, 63
Rated voltage Un (V AC)	220/400	230/400
Operated voltage (V AC)	MIN12 MAX250/500	MAX250/440
Rated frequency (Hz)	50/60	50/60
Number of poles (P)	1, 2, 3, 4, 1P+N, 3P+N	1, 2, 3, 4, 1P+N, 3P+N
Characteristic B (In)	3-5	3~5
Characteristic C (In)	5-10	5~10
Characteristic D (In)	10-20	10~20
Thermal operating Limit (In)	1.13-1.45	1.13-1.45
Degree of protection	IP20	IP20, with connected conductors
Electrical endurance (times)	4000	6000
Mechanical endurance (times)	10000	20000
Rated impulse withstand voltage Uimp (kV)	6	6
Breaking capacity	6kA	6KA
Busbar connection	Pin type	Pin type
Fire resistance according to IEC 60695	960 °C	960 °C
Mounting position	Any	Any
Solid and stranded (mm ²)	0.75-35	1-35
Finely stranded with end sleeve (mm ²)	0.75-25	1-16
Terminal tightening torque (N·m)	2.8	2.5
Ambient temperature (°C)	-5 ~+40, max. 95 % humidity	-5 ~+40, max. 95 % humidity
Altitude (meters)	Max 2000	Max.2000



MODULAR DIN RAIL DEVICES

Miniature Circuit Breakers

Type	VBH510	3SB66	VCN515-DPN
			
	MCB Series VBH510	MCB Series 3SB66	MCB Series VCN515-DPN
Standard	IEC 60947-2	IEC 60898-1	IEC 60898-1
Characteristic	C, D	B,C	B, C
Rated current in (A)	63, 80, 100, 125	6, 10, 16, 20, 25, 32, 40	6, 10, 16, 20, 25, 32, 40
Rated voltage Un (V AC)	230/400	230	230
Operated voltage (V AC)	MIN24 MAX250/440	MIN24 MAX250	MIN24 MAX250
Rated frequency (Hz)	50/60	50/60	50/60
Number of poles (P)	1, 2, 3, 4	1P+N (1 modular width)	1P+N (1 modular width)
Characteristic B (In)	3~5	3~5	3~5
Characteristic C (In)	5~10	5~10	5~10
Characteristic D (In)	10~20	-	-
Thermal operating Limit (In)	1.05-1.3	1.13 - 1.45	1.13-1.45
Degree of protection	IP20, with connected conductors	IP20, with connected conductors	IP20, with connected conductors
Electrical endurance (Cycles)	4000	4000	10000
Mechanical endurance (Cycles)	20000	10000	20000
Rated impulse withstand voltage Uimp (kV)	6	6	6
Breaking capacity	6KA	6kA	6KA
Fire resistance according to IEC 60695	960 °C	960 °C	960 °C
Busbar connection	Pin type	-	Pin type
Mounting position	Any	Any	No significant vibration and shock
Solid and stranded (mm ²)	1-50	0.75-16	1-10
Finely stranded with end sleeve (mm ²)	1-35	0.75-16	1-10
Terminal tightening torque (N·m)	3.5	2.0	2.0
Ambient temperature (°C)	-5 ~+40, max. 95 % humidity	-25 ~ +45, max. 95 % humidity	+20, max. 95 % humidity; +40, max. 50 % humidity
Altitude (meters)	Max.2000	Max 2000	Max.2000




MODULAR DIN RAIL DEVICES

Residual Current Devices

Type	3SL71	3SL71N-40
	 <p>RCCB Series 3SL71</p>	 <p>RCBO Series 3SL71N-40</p>
Standard	IEC 61008-1	EC 61009-1
Type (wave form of the earth leakage sensed)	AC, A	AC, A
Trip time type	instantaneous, selectivity S	-
Instantaneous tripping characteristic	-	B,C
Number of poles (P)	1P+N, 3P+N	1P+N
Rated current I _n (A)	16, 25, 40, 63, 80, 100	6, 10, 16, 20, 25, 32, 40
Rated voltage U _e (V AC)	230/400	230
Rated insulation voltage U _i (V AC)	500	500
Rated frequency F _n (Hz)	50/60	50/60
Rated residual currents I Δ _n (mA)	10 (2P 16 A), 30, 100, 300	30, 100, 300
Rated conditional short-circuit current	I _{nc} = I Δ _c = 6000 A SCPD fuse 100 A Gg	-
Rated impulse withstand voltage U _{imp} (kV)	4	4
Rated unlimited breaking capacity (kA)	-	6
Rated service breaking capacity (kA)	-	6
Making and breaking capacity I _m (A)	1000	-
Rated residual breaking capacity I Δ _m (A)	1000	6000
Tripping characteristic	-	B: 3 I _n ≤ I _n ≤ 5 I _n
	-	C: 5 I _n ≤ I _n ≤ 10 I _n
Degree of protection	IP20, with connected conductors	IP20, with connected conductors
Solid and stranded (mm ²)	0.75-35	0.75-35
Finely stranded with end sleeve (mm ²)	0.75-25	0.75-25
Electrical endurance (times)	10000	4000
Mechanical endurance (times)	20000	10000
Mounting position	Any	Any
Terminal tightening torque (N·m)	3	2.8
Ambient temperature (°C)	-25 ~ +45, max. 95 % humidity	-25 ~ +45, max. 95 % humidity
Altitude (meters)	Max. 2000	Max. 2000




MODULAR DIN RAIL DEVICES

Residual Current Devices

Type	3SB71LN	3SB71L-50	3SB71LB
			
	RCBO Series 3SB71LN	RCBO Series 3SB71L-50	RCD Blocks Series 3SB71LB
Standard	IEC 61009-1	IEC 61009-1	IEC 61009-1
Type (wave form of the earth leakage sensed)	AC, A	AC	AC, A
Instantaneous tripping characteristic	B, C, D	B, C	-
Number of poles (P)	2, 3, 4	1P+N (1 module)	2, 3, 4
Rated current I _n (A)	6, 10, 16, 20, 25, 32, 40	6, 10, 16, 20, 25, 32, 40, 50	40, 63
Rated voltage U _e (V AC)	230/400	230	230/400
Rated insulation voltage U _i (V AC)	500	500	500
Rated frequency F _n (Hz)	50/60	50/60	50/60
Rated residual currents I _{Δn} (mA)	30, 100, 300	30	30, 100, 300
Rated impulse withstand voltage U _{imp} (kV)	4	4	4
Rated unlimited breaking capacity (kA)	10	10	-
Rated residual breaking capacity I _{Δm} (kA)	6	10	I _{cn} of the associated MCB 3SB71
Tripping characteristic	B: $3 I_n \leq I_n \leq 5 I_n$	B: $3 I_n \leq I_n \leq 5 I_n$	-
	C: $5 I_n \leq I_n \leq 10 I_n$	C: $5 I_n \leq I_n \leq 10 I_n$	-
	D: $10 I_n \leq I_n \leq 20 I_n$	-	-
Degree of protection	IP20, with connected conductors	IP20, with connected conductors	IP20, with connected conductors
Solid and stranded (mm ²)	0.75-35	0.75-35	0.75-35
Finely stranded with end sleeve (mm ²)	0.75-25	0.75-25	0.75-25
Electrical endurance (times)	4000	4000	4000
Mechanical endurance (times)	10000	10000	10000
Mounting position	Any	Any	Any
Terminal tightening torque (N·m)	2.5	2.5	2.8
Ambient temperature (°C)	-25 ~ +45, max. 95 % humidity	-25 ~ +45, max. 95 % humidity	-25 ~ +45, max. 95 % humidity
Altitude (meters)	Max. 2000	Max. 2000	Max. 2000



MODULAR DIN RAIL DEVICES

Residual Current Devices

Type	3SL6	VRC510	VRBNC515E
	 RCCB Series 3SL6	 RCCB Series VRC510	 RCBO Series VRBNC515E, compact
Standard	IEC 61008-1 (AC type / A type), IEC 62643 (B type)	IEC 61008-1 (AC type / A type), IEC 62643 (B type)	IEC 61009-1
Type (wave form of the earth leakage sensed)	AC, A, B	AC, A, B	AC, A
Trip time type	instantaneous, selectivity S	instantaneous, selectivity S	-
Instantaneous tripping characteristic	-	-	B,C
Number of poles (P)	1P+N, 3P+N	1P+N, 3P+N	1P+N
Rated current I _n (A)	10, 16, 25, 40, 63, 80, 100	10, 16, 25, 40, 63, 80, 100	6, 10, 16, 20, 25, 32, 40
Rated voltage U _e (V AC)	230/380	2P: 230; 4P: 380	230
Rated insulation voltage U _i (V AC)	500	500	500
Rated frequency F _n (Hz)	50/60	50/60	50/60
Rated residual currents I Δ _n (mA)	10, 30, 100, 300	10, 30, 100, 300	10, 30, 100
Rated conditional short-circuit current	I _{nc} = I Δ _c = 6000 A SCPD fuse 100 A Gg	I _{nc} = I Δ _c = 6000 A SCPD fuse 100 A Gg	-
Rated impulse withstand voltage U _{imp} (kV)	4	4	4
Rated unlimited breaking capacity (kA)	-	-	6
Rated service breaking capacity (kA)	-	-	6
Making and breaking capacity I _m (A)	3SL6-63 I _m (A): 630 3SL6-100 I _m (A): 1000	VRC5-63 I _m (A): 630 VRC5-100 I _m (A): 1000	-
Rated residual breaking capacity I Δ _m (kA)	6	1	-
Tripping characteristic	- -	- -	B: 3 I _n ≤ I _n ≤ 5 I _n C: 5 I _n ≤ I _n ≤ 10 I _n
Degree of protection	IP20, with connected conductors	IP20, with connected conductors	IP20, with connected conductors
Solid and stranded (mm ²)	1-35	1-35	1-10
Finely stranded with end sleeve (mm ²)	1-25	1-25	1-10
Electrical endurance (times)	4000	4000	10000
Mechanical endurance (times)	10000	10000	20000
Fire resistance (°C)	960 °C	960 °C	960 °C
Mounting position	Any	Any	Any
Busbar connection	Pin type	Pin type	Pin type
Terminal tightening torque(N·m)	2.5	2.5	2.5
Ambient temperature (°C)	-5 ~ +40, max. 95 % humidity	-5 ~ +40, max. 95 % humidity	-25 ~ +45, max. 95 % humidity
Altitude (meters)	Max. 2000	Max. 2000	Max. 2000



MODULAR DIN RAIL DEVICES

Residual Current Devices

Type	VRBNE515	VRB510E
	 <p>RCBO Series VRBNE515, integrated with earthing cable</p>	 <p>RCBO Series VRB510E</p>
Standard	IEC 61009-1	IEC 61009-1
Type (wave form of the earth leakage sensed)	AC, A	AC, A
Instantaneous tripping characteristic	B,C	B, C, D
Number of poles (P)	1+N (1 module)	1P+N,3P+N
Rated current I _n (A)	6, 10, 16, 20, 25, 32, 40, 50	6, 10, 16, 20, 25, 32, 40, 50, 63, 80
Rated voltage U _e (V AC)	230	230/400
Rated insulation voltage U _i (V AC)	500	500
Rated frequency F _n (Hz)	50/60	50/60
Rated residual currents I _{Δn} (mA)	30	30, 100, 300
Rated impulse withstand voltage U _{imp} (kV)	4	4
Rated unlimited breaking capacity (kA)	6	6
Rated service breaking capacity (kA)	6	6
Rated residual breaking capacity I _{Δm} (kA)	3	-
Tripping characteristic	B (I _n): 3-5	B: 3 I _n ≤ I _n ≤ 5 I _n
	C (I _n): 5-10	C: 5 I _n ≤ I _n ≤ 10 I _n
	-	D: 10 I _n ≤ I _n ≤ 20 I _n
Degree of protection	IP20, with connected conductors	IP20, with connected conductors
Solid and stranded (mm ²)	0.75-35	1-35
Finely stranded with end sleeve (mm ²)	0.75-25	1-25
Electrical endurance (times)	4000	10000
Mechanical endurance (times)	10000	20000
Mounting position	Any	Any
Terminal tightening torque (N·m)	2.5	2.5
Ambient temperature (°C)	-25 ~ +45, max. 95 % humidity	-25 ... +45
Altitude (meters)	Max. 2000	Max. 2000



INDUSTRIAL CONTROL AND PROTECTION

Contactors

Type	3SC8	3SC8-F
	 <p>Contactors Series 3SC8</p>	 <p>Contactors Series 3SC8-F</p>
Standard	IEC 60947-4-1	IEC 60947-4-1
Number of contacts	10: 3 NO + 1 NO (I _e ≤ 32A) 01: 3 NO + 1 NC (I _e ≤ 32A) 11: 3 NO + 1 NO + 1 NC 004: 4 NO (except I _e = 18 A & I _e = 32 A) 008: 2 NO + 2 NC (except I _e = 18 A & I _e = 32 A)	3, 4
Rated operational voltage U _e (V)	Up to 690	Up to 1000
Rated insulation voltage U _i (V)	690	1000
Rated impulse withstand voltage U _{imp} (kV)	8	8
Rated frequency (Hz)	50/60	50/60
Rated operational current (A)	9-95	115-780
Number of poles (P)	3, 4	3, 4
Rated operational power in category AC-3 (KW)	2.2~45	30-475
Rated making capacity (A)	10 x I _e AC-3 or 12 x I _e AC-4	10 x I _e AC-3 or 12 x I _e AC-4
Rated breaking capacity (A)	8 x I _e AC-3 or 10 x I _e AC-4	8 x I _e AC-3 or 10 x I _e AC-4
Operation cycles (times/hour)-electrical	1200 (AC-3) 300 (AC-4)	0.8 x 10 ⁶ , 1.2 x 10 ⁶
Operation cycles (times/hour)-mechanical	3600	6.0 x 10 ⁶ , 10 x 10 ⁶
Tightening torque (N·m)	0.8-10	0.8-19
Degree of protection	IP20	IP20
Ambient temperature (°C)	- 5 to +40, max. 95 % humidity	- 5 to +40, max. 95 % humidity
Storage temperature (°C)	-40~+75	-40~+75
Altitude (meters)	Max. 2000	Max. 2000
Flame resistance-Conforming to UL 94	V1	V1



INDUSTRIAL CONTROL AND PROTECTION

Contactors

Type	3SC8-K	3SC19
	 <p>Contactors Series 3SC8-K</p>	 <p>Capacitor Switching Contactors Series 3SC19</p>
Standard	IEC 60947-4-1	IEC 60947-4-1
Number of contacts	10: 3NO+1NO 01: 3NO+1NC 004: 4NO 008: 2NO+2NC	1NO+1NC, 2NC, 2NO
Rated operational voltage Ue (V)	Up to 690	690
Rated insulation voltage Ui (V)	690	690
Rated impulse withstand voltage Uimp (kV)	6	-
Rated frequency (Hz)	50/60	50/60
Rated operational current (A)	6-12	25-125
Number of poles (P)	3, 4	3
Rated operational power in category AC-3 (KW)	1.5-5.5	-
Rated making capacity (A)	110-114	-
Rated breaking capacity (A)	70-100	-
Electrical life (times/hour)	1200 (AC-3) 300 (AC-4)	12 x 10 ⁴ , 15 x 10 ⁴
Mechanical life (times/hour)	3600	100 x 10 ⁴
Tightening torque (N·m)	0.8	0.8-10
Degree of protection	IP20	IP20
Ambient temperature (°C)	- 5 to +40, max. 95 % humidity	- 5 to +40, max. 95 % humidity
Storage temperature (°C)	-40~+75	-40~+75
Altitude (meters)	Max. 2000	Max. 2000
Flame resistance-Conforming to UL 94	V1	V1





INDUSTRIAL CONTROL AND PROTECTION

Contactors

Type	VC51	VC51C
	 <p>AC Contactor Series VC51</p>	 <p>Capacitor Switching Contactors Series VC51C</p>
Standard	IEC 60947-4-1	IEC 60947-4-1
Number of contacts	3,4	1NO+1NC, 2NC, 2NO
Rated operational voltage Ue (V)	Up to 690	690
Rated insulation voltage Ui (V)	690	690
Rated impulse withstand voltage Uimp (kV)	8	-
Rated frequency (Hz)	50/60	50/60
Rated operational current (A)	9-95	25-125
Number of poles (P)	3, 4	3
Rated operational power in category AC-3 (KW)	2.2~45	-
Rated making capacity (A)	10 x Ie AC-3 or 12 x Ie AC-4	-
Rated breaking capacity (A)	8 x Ie AC-3 or 10 x Ie AC-4	-
Operation cycles (times/hour)-electrical	1200 (AC-3) 300 (AC-4)	-
Operation cycles (times/hour)-mechanical	3600	-
Electrical life (times)	10×10^5 、 6×10^5	12×10^4 、 15×10^4
Mechanical life (times)	10×10^6 、 6×10^6	100×10^4
Tightening torque (N·m)	0.8-10	0.8-10
Degree of protection	IP20	IP20
Ambient temperature (°C)	- 5 to +40, max. 95 % humidity	- 5 to +40, max. 95 % humidity
Storage temperature (°C)	-40~+75	-40~+75
Altitude (meters)	Max. 2000	Max. 2000
Flame resistance-Conforming to UL 94	V1	V1


INDUSTRIAL CONTROL AND PROTECTION

Relays

Type	3SR8	3SR8-F	3SR8-K	VTR51
				
	Thermal overload relays Series 3SR8	Thermal overload relays Series 3SR8-F	Thermal overload relays Series 3SR8-K	Thermal relay Series VTR51
Standard	IEC 60947-4-1	IEC 60947-4-1	IEC 60947-4-1	IEC 60947-4-1
Tripping class	10A	10A, 20A	10A	10A
Number of connecting pin	3	3	3, 5	3
Rated working current Ie (A)	25, 36, 93	220, 630	6, 9, 12	25, 36, 93
Rated operational voltage Ue (V)	690	1000	690	690
Rated insulation voltage Ui (V)	690	1000	690	690
Rated impulse withstand voltage Uimp (kV)	6	8	6	6
Rated current ranged In (A)	0.1-93	30-630	0.11-14	0.1-93
Signalling	Trip indicator	Trip indicator	Trip indicator	Trip indicator
Tightening torque (N·m)	0.8	0.8-10	0.8	0.8
Degree of protection	IP20	IP20	IP20	IP20
Ambient temperature (°C)	-5 to + 40, max.95% humidity	-5 to + 40, max.95% humidity	-5 to + 40, max.95% humidity	-5 to + 40,max. 95% humidity
Storage temperature (°C)	-5 to + 75	-5 to + 75	-5 to + 75	-5 to + 75
Altitude (meters)	Max. 2000	Max. 2000	Max. 2000	Max. 2000
Flame resistance	V1	V1	V1	V1
Mounting	directly under the contactor	directly under the contactor	directly under the contactor	directly under the contactor

DC SERIES

Moulded Case Circuit Breaker

Appearance	3SM8D Series									
										
Moulded	3SM8D-320			3SM8D-400		3SM8D-630		3SM8D-800		
Rated current of shell frame grade Inm (A)	320			400		630		800		
Rated current In (A)	63, 80, 100, 125, 140, 160, 180, 200, 225, 250, 280, 315, 320			225, 250, 315, 350, 400		500, 630		700, 800		
Pole Number	2		3	2	3	2	3	2	3	
Rated working voltage Ue (V) DC	500	1000	1500	250/500/750/1000/1250/1500	1250/1500	250/500/750/1000/1250/1500	1250/1500	250/500/750/1000/1250/1500	1250/1500	
Rated insulation voltage Ui (V)	1250		1500	1500		1500		1500		
Rated impulse withstand voltage Uimp (kV)	8		12	12		8		12		
Extreme short-circuit breaking capacity Icu (kA)	50	20	20	65/35/15	15	65/35/15	15	65/35/15	15	
Running short-circuit breaking capacity Ics (kA)	50	20	20	65		20		20		

Miniature Circuit Breakers

Type	3SB71Z-63	3SB71Z-125	3SB6Z	VBD510
				
	DC MCB Series 3SB71Z-63	DC MCB Series 3SB71Z-125	DC MCB Series 3SB6Z	DC MCB Series VBD510
Standard	IEC 60947-2			
Characteristic	B,C			
Rated current in (A)	6~63	80~125	6~63	6~63
Rated voltage Ue (V DC)	250/500/750/1000			
Rated insulation voltage (V AC)	1000			
Rated impulse withstand voltage (kV)	6			
Number of poles (P)	1, 2, 3, 4			
Characteristic B(In)	4~7			
Characteristic C(In)	7~15			
Thermal operating Limit (In)	1.05-1.3			
Breaking capacity Icn	10 kA		6 kA	
Breaking capacity Ics	7.5 kA		6 kA	

DC SERIES

DC Operated Contactors

Type	3SC8-P09	3SC8-P12	3SC8-P18	3SC8-P25	3SC8-P32	3SC8-P40	3SC8-P50	3SC8-P65	3SC8-P80	3SC8-P95	
Standard	IEC 60947-4-1										
Number of contacts	3P+1NO, 3P+1NC					3P+1NO+1NC					
Rated conventional thermal current Ith (A)	20	25	32	40	50	60	80	80	125	125	
Rated operational voltage Ue (V)	690										
Rated insulation voltage Ui (V)	690										
Rated frequency (Hz)	50/60										
Rated operational current (A)	AC3 380/400V	9	12	18	25	32	40	50	65	80	95
	AC4 380/400V	3.5	5	7.7	8.5	12	18.5	24	28	37	44
	AC3 660/690V	6.6	8.9	12	18	21	34	39	42	49	55
	AC4 660/690V	1.5	2	3.8	4.4	7.5	9	12	14	17.3	21.3
Number of poles	3,4										
Rated operational power in category AC-3 (kw)	220V	2.2	3	4	5.5	7.5	11	15	18.5	22	25
	380V	4	5.5	7.5	11	15	18.5	22	30	37	45
	660V	5.5	7.5	9	15	18.5	30	33	37	45	45
Rated making capacity (VA)	360										
Rated breaking capacity (VA)	3600										

DC Isolator Switches

Type	3SDS-PV NL1/T	3SDS-PV PM2	3SDS-PV ELR1
Standard	IEC60947-3, AS60947. 3		
Utilization category	DC-PV2/DC-PV1 /DC-21 B		
Pole	4P		
Rated operational voltage (Ue)	300V, 600V, 800V, 1000V, 1200V		
Rated insulation voltage (Ui)	1200V		
Rated short-time withstand current (Icw)	1kA, 1s		
Rated impulsive withstand voltage (Uimp)	8.0 kV		
Ingress protection Switch Body	IP20	IP20	IP20

DC Fusegear

Type	RT18-32	RT18-63	RT16	RT16
Rated Voltage	1000V	1500V	1000V	1500V
Class of Operation	gPV			
Standard	IEC 60269-6			
Rated current In (A)	32	63	125~500	250~630
Fuse Size	10X38mm	10X85mm 14X85mm	NH00/1/ 2/3/	H1XL/2/3

DC Fuse

Type	RT18 1000V DC	RT18 1500V DC	RT16 1000V DC	RT16 1500V DC
Fuse Size	10X38mm	10X85mm/ 14X85mm	NH00/1/ 2/3/	H1XL/2/3
Class of Operation	gPV			
Standard	UL248-19 IEC 60269-6	IEC 60269-6		
Breaking Capacity	20kA	20kA	50kA	30kA
Time Constant	1-3ms			



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