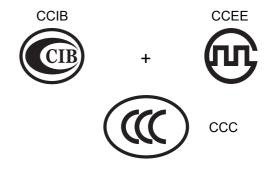
6. CCC Approved Equipment 6.1. What is CCC?

In 1993, CCIB (China Commodity Inspection Bureau) has introduced Safety Certification (CCIB Certification) for imported electric and electronic products under the control of SAIQ (The State Administration for Entry-Exit Inspection and Quarantine of P.R. of China).

In 1994, CCEE (China Commission for Conformity Certification of Electrical Equipment) has introduced Safety Certification (CCEE Certification) for electric and electronic products sold in China, under the control of CSBTS (China State Bureau of Quality and Technical Supervision).



In such situation, the government of China took the opportunity of joining in WTO (World Trade Organization) in November 2001, and two certification (CCEE and CCIB) merged into a single certification.

CCC (China Compulsory Certification) was announced as a new compulsory product safety certification.

CCC has enforced on May 1, 2002 and effective on August 1, 2003.

6.2. Certification Mark

One of the following 4 marks shall be displayed on products or packages and instruction manuals.









S: Safety

EMC: EMC

S&E: Safety and EMC

F: Fire-fighting Products

6.3. Products Requiring CCC

Products requiring Certification should be the following 19 items, 132 categories listed in the "First Catalogue of Products Subjects to Compulsory Certification" published as "Joint Announcement No. 2001-33 by AQSIQ*1 and CNCA*2".

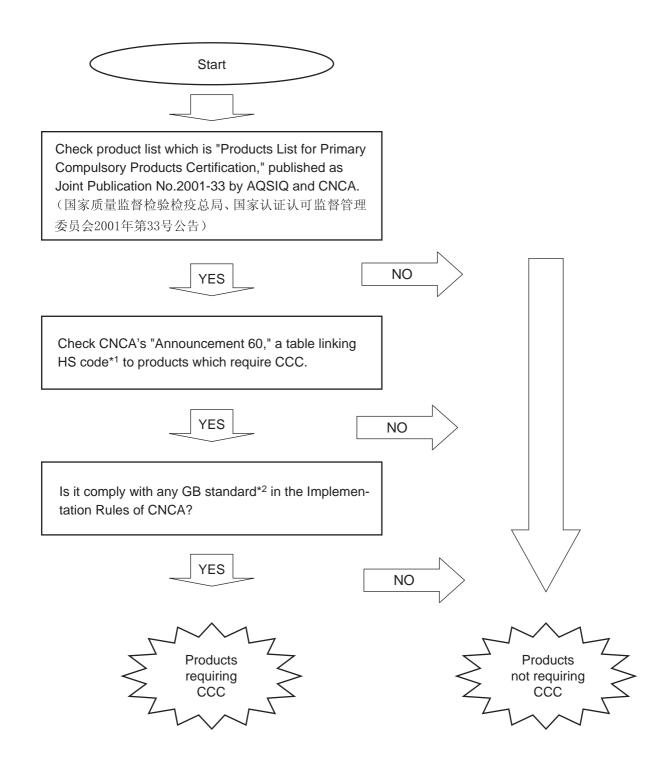
- *1: State General Administration of the People's Republic of China for Quality Supervision and Inspection and Quarantine
- *2: Certification and Accreditation Administration of the People's Republic of China

1	Electrical wires and cables (5 categories)	2	Switches for circuits, Installation protective and connection devices (6 categories)		
3	Low-voltage Electrical Apparatus (9 categories) (1) Residual current protective devices (2) Circuit-breakers (RCCB, RCBO, MCB) (3) Fuses (4) Low-voltage switches (disconnectors, switch-disconnectors, and fuse-combination units) (5) Other protective equipment for circuits (current limiting devices, circuits protective devices, over current protective devices, thermal protectors, over load relays, low-voltage electromechanical contactors and motor starters) (6) Relays (36V < voltage ≤1000V) (7) Other switches (switches for appliances, vacuum switches, pressure switches, proximity switches, foot switches, thermal sensitive switches, hydraulic switches, push-button switches, Position limit switches, Micro-gap switches, two direction switches, temperature sensitive switches, travel switches, change-over switches, auto-change-over switches, knife switches) (8) Other devices (contactors, motor starters, indicator lights, auxiliary contact assemblies, master controllers, A.C. Semiconductor motor controllers and starters) (9) Low-voltage switchegar and control gear assemblies				
4	Small power motors (1 category) (1) Small power motors				
5	Electric tools (16 categories)	6	Welding machines (15 categories)		
7	Household and similar electrical appliances (18 categories)	8	Audio and video apparatus (not including the acoustics apparatus for broadcasting service and automobiles) (16 categories)		
9	Information technology equipment (IT) (12 categories)	10	Lighting apparatus (2 categories) (not including the lighting apparatus with the voltage lower than 36V)		
11	Telecommunication Terminal equipment (9 categories)	12	Motor vehicles and Safety Parts (4 categories)		
13	Motor vehicle Tyres (3 categories)	14	Safety Glasses (3 categories)		
15	Agricultural Machinery (1 category)	16	Latex Products (1 category)		
17	Medical Devices (7 categories)	18	Fire Fighting Equipment (3 categories)		
19	Detectors for Intruder Alarm Systems (1 category)				

Note: Our products belong to the above item 3 and 4.

6.4. The Application Process of FUJI's Products Requiring CCC

(1) Determine whether your products require CCC



Note 1) CNCA finally judges whether or not the product requires CCC. For products other than FUJI's products, if judgment as to whether or not they are subject to the categories cannot be clearly determined, contact CNCA.

^{*1:} Product classification codes internationally unified (customs clearance for export and import)

^{*2:} Chinese national standard

(2) List of FUJI's products for CCC

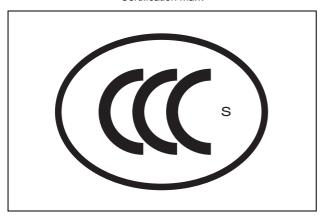
odel		GB Standard	IEC Standard for reference ²	CCC required?	What is being done?
	Magnetic contactor, magnetic motor starter	GB14048.4-1993	IEC60947-4-1-1990	Yes	Certification acquired
	Thermal overload relay	GB14048.4-1993	IEC60947-4-1-1990	Yes	Certification acquired
	Magnetic relay	GB14048.5-1993	IEC60947-5-1-1990	Yes	Certification acquired
	Solid-state contactor	GB14048.6-1998	IEC60947-4-2-1995	Yes	-
	Molded case circuit breaker	GB14048.2-1994	IEC60947-2-1988	Yes	Certification acquired
	Earth leakage circuit breaker	GB14048.2-1994	IEC60934-2-1988	Yes	Certification acquired
	Manual motor starter	GB14048.2-1994	IEC60947-2-1988	Yes	Certification acquired
	Circuit protector	GB17701 -1999	IEC60934-1993	Yes	Certification acquired
Power distribution & control equipments	Semiconductor protection fuse (CR series)	GB13539.1-1992 GB13539.4-1992	IEC60269-1-1986 IEC60269-4-4-1986	Yes	Having been applied
<u>id</u>	D-type fuse	-	-	Yes	-
6 d	Pushbutton, selector switch, pilot lamp	GB14048.5-1993	IEC60947-5-1-1990	Yes	Certification acquired
亘	Rotary switch	-	-	No	*1
9	Multi display light	GB14048.5-1993	IEC60947-5-1-1990	Yes	-
∞ŏ ⊑	Cam switch	GB14048.5-1993	IEC60947-5-1-1990	Yes	Certification acquired (only AK series)
읊	Control relay (HH relay/Card relay)	GB14598.2-1993	IEC60255-1-00-1975	No	*1
Ē	Timer	-	-	No	*1
g	Terminal block	-	-	No	
Wer	Limit switch	GB14048.5-1993	IEC60947-5-1-1990	Yes	-
ရှိ	Proximity limit switch	GB14048.10-1999	IEC60947-5-2-1992	Yes	-
	Power monitoring equipment (F-MPC)	-	-	No	
	Automatic power factor regulator	-	-	No	
	UPS	-	-	No	
	Transducer	-	-	No	
	Instrument transformer	-	-	No	
	Measuring instrument	-	-	No	
	Panel meter	-	-	No	
	Induction motor (under 1.1 kW)	GB12350-2000	-	Yes	(Having been applied)
Rotating machines	VG, high-speed motor (induction motor under 1.1kW)	GB12350-2000	-	Yes	-
Jac	Brake motor (under 750W)	GB12350-2000	-	Yes	-
ر ا	Geared motor	GB12350-2000	-	Yes	-
tat	Single-phase motor	GB12350-2000	-	Yes	-
윤	Ring blow, turbo blow fan	-	-	No	
	Coolant pump	-	-	No	
Ø	Inverter	-	-	No	
jent	AC servo amplifier	-	-	No	
ii pr	AC servomotor	-	-	No	
-A equipments	PLC (Programmable logic controller)	-	IEC61131-1,2,3	No	
Ϋ́	POD (Programmable operational display)			No	

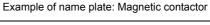
^{*1:} CNCA-published certificate for inapplicable categories obtained
*2: Conformity standards required by CCC are GB Standards. IEC Standards are shown for reference, as they are partly inconsistent with GB Standards.

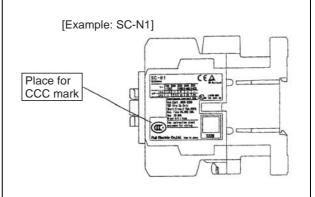
6.5. Example of Displaying Certification Marks

All our products have obtained certification for S (Safety) and the following mark is displayed on products or on packages and instruction manual.

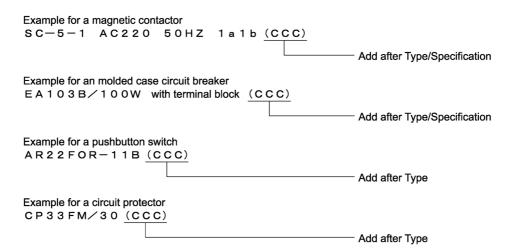
Certification mark







6.6. Ordering Type Number for CCC



6.7. List of Certified Products

(1) Contactors

Standard magnetic contactors

Frame	Туре	Certificate No.
03	SC-03	2003010304063432
0	SC-0	
05	SC-05	
4-0	SC-4-0	2003010304063438
4-1	SC-4-1	
5-1	SC-5-1	
N1	SC-N1	2003010304063394
N2	SC-N2	
N2S	SC-N2S	2003010304067046
N3	SC-N3	
N4	SC-N4	2003010304063396
N5	SC-N5	
N6	SC-N6	2003010304063437
N7	SC-N7	2003010304063436
N8	SC-N8	2003010304063435
N10	SC-N10	
N11	SC-N11	2003010304063393
N12	SC-N12	
N14	SC-N14	2003010304067052
N16	SC-N16	

Reversing magnetic contactors

Frame	Туре	Certificate No.
03	SC-03RM	2003010304063432
05	SC-0RM	2000 1000 1000 102
4-0	SC-05RM	
4-0	SC-4-0RM	2003010304063438
4-1	SC-4-1RM	
5-1	SC-5-1RM	
N1	SC-N1RM	2003010304063394
N2	SC-N2RM	
N2S	SC-N2SRM	2003010304067046
N3	SC-N3RM	
N4	SC-N4RM	2003010304063396
N5	SC-N5RM	
N6	SC-N6RM	2003010304063437
N7	SC-N7RM	2003010304063436
N8	SC-N8RM	2003010304063435
N10	SC-N10RM	
N11	SC-N11RM	2003010304063393
N12	SC-N12RM	
N14	SC-N14RM	2003010304067052

DC operated magnetic contactors

Frame	Туре	Certificate No.
03	SC-03/G	2003010304063432
0	SC-0/G	
05	SC-05/G	
4-0	SC-4-0/G	2003010304063438
4-1	SC-4-1/G	
5-1	SC-5-1/G	
N1	SC-N1/G	2003010304063394
N2	SC-N2/G	
N2S	SC-N2S/G	2003010304067046
N3	SC-N3/G	

Reversing DC operated magnetic contactors

Frame	Туре	Certificate No.
03	SC-03RM/G	2003010304063432
0	SC-0RM/G	
05	SC-05RM/G	
4-0	SC-4-0RM/G	2003010304063438
4-1	SC-4-1RM/G	
5-1	SC-5-1RM/G	
N1	SC-N1RM/G	2003010304063394
N2	SC-N2RM/G	
N2S	SC-N2SRM/G	2003010304067046
N3	SC-N3RM/G	

Magnetic contactors with super magnet

Frame	Туре	Certificate No.
N1	SC-N1/SE	2003010304063394
N2	SC-N2/SE	
N2S	SC-N2S/SE	2003010304067046
N3	SC-N3/SE	
N4	SC-N4/SE	2003010304063396

Reversing magnetic contactors with super magnet

Frame	Туре	Certificate No.
N1	SC-N1RM/SE	2003010304063394
N2	SC-N2RM//SE	
N2S	SC-N2SRM//SE	2003010304067046
N3	SC-N3RM//SE	
N4	SC-N4RM//SE	2003010304063396

● Low-voltage compensation type magnetic contactors

Frame	Туре	Certificate No.
03	SC-03/U	2003010304063432
0	SC-0/U	
05	SC-05/U	
4-0	SC-4-0/U	2003010304063438
4-1	SC-4-1/U	
5-1	SC-5-1/U	
N1	SC-N1/U	2003010304063394
N2	SC-N2/U	
N2S	SC-N2S/U	2003010304067046
N3	SC-N3/U	
N4	SC-N4/U	2003010304063396

Reversing low-voltage compensation type magnetic contactors

Frame	Туре	Certificate No.
03	SC-03RM/U	2003010304063432
0	SC-0RM/U	
05	SC-05RM/U	
4-0	SC-4-0RM/U	2003010304063438
4-1	SC-4-1RM/U	
5-1	SC-5-1RM/U	
N1	SC-N1RM/U	2003010304063394
N2	SC-N2RM/U	
N2S	SC-N2SRM/U	2003010304067046
N3	SC-N3RM/U	
N4	SC-N4RM/U	2003010304063396

Magnetic contactors with high-capacity contact (single contact)

Frame	Туре	Certificate No.
03	SC-03H	2003010304063432
0	SC-0H	
05	SC-05H	
4-0	SC-4-0H	2003010304063438
4-1	SC-4-1H	
5-1	SC-5-1H	
N1	SC-N1H	2003010304063394
N2	SC-N2H	
N2S	SC-N2SH	2003010304067046
N3	SC-N3H	
N4	SC-N4H	2003010304063396
N5	SC-N5H	
N6	SC-N6H	2003010304063437
N7	SC-N7H	2003010304063436
N8	SC-N8H	2003010304063435
N10	SC-N10H	
N11	SC-N11H	2003010304063393
N12	SC-N12H	

Other combination magnetic contactors

Certification is granted to combinations of above-listed certified types.

SJ series high-sensitivity contactors

Frame	Type of magnetic contactors	Type of reversing magnetic contactors	Certificate No.
0	SJ-0G	SJ-0GRM	2003010304067070
06	SJ-06G	SJ-06GRM	2003010304067070
1S	SJ-1SG	SJ-1SGRM	2003010304067065

Mini-Contactor

Frame	Type of magnetic contactors	Certificate No.
01	SC-M01	2004010304113296
	SC-M01G□	
02	SC-M02	
	SC-M02G□	

(2) Auxiliary Relays

Standard auxiliary relays

Туре	Certificate No.
SH-4	2003010309087168
SH-5	

DC operated auxiliary relays

Туре	Certificate No.
SH-4/G	2003010309087168
SH-5/G	

● Constant voltage compensation type auxiliary relays

Туре	Certificate No.
SH-4/U	2003010309087168
SH-5/U	

Single contact type auxiliary relays

Туре	Certificate No.
SH-4H	2003010309087168
SH-5H	

Reversing high-capacity contact (single contact) -incorporated magnetic contactors

-1110011	orated magnetic contact	019
Frame	Туре	Certificate No.
03	SC-03HRM	2003010304063432
0	SC-0HRM	
05	SC-05HRM	
4-0	SC-4-0HRM	2003010304063438
4-1	SC-4-1HRM	
5-1	SC-5-1HRM	
N1	SC-N1HRM	2003010304063394
N2	SC-N2HRM	
N2S	SC-N2SHRM	2003010304067046
N3	SC-N3HRM	
N4	SC-N4HRM	2003010304063396
N5	SC-N5HRM	
N6	SC-N6HRM	2003010304063437
N7	SC-N7HRM	2003010304063436
N8	SC-N8HRM	2003010304063435
N10	SC-N10HRM	
N11	SC-N11HRM	2003010304063393
N12	SC-N12HRM	

● FC series AC operated magnetic contactors

Frame	Type of standard products	Type of UL/CSA products	Certificate No.
0	FC-0	FC-0UL	2003010304088942
0T	FC-0T	FC-0TUL	
0S	FC-0S	FC-0SUL	
0ST	FC-0ST	FC-0STUL	
1	FC-1	FC-1UL	2003010304088935
1S	FC-1S	FC-1SUL	
2S	FC-2S	FC-2SUL	2003010304088929
3	FC-3	FC-3UL	
4	FC-4	FC-4UL	2003010304088923

FC series DC operated magnetic contactors

Frame	Type of magnetic contactors	Type of UL/CSA products	Certificate No.
0	FC-0/G	FC-0/GUL	2003010304088942
0T	FC-0T/G	FC-0T/GUL	
0S	FC-0S/G		
0ST	FC-0ST/G]_	_

(3) Optional Equipment and Parts of Magnetic Contactors and Auxiliary Relays

		-	
Part name	Туре	Applicable type	Certificate No.
Auxiliary contact block	SZ-A40	SC-03~N3	Certified
(front mounting,	SZ-A31	SH-4, SH-5	according to an
bifurcated)	SZ-A22		applicable type.
	SZ-A20		
	SZ-A11		
	SZ-A02		
Auxiliary contact block	SZ-A40H	SC-03~N3	
(front mounting, single	SZ-A31H	SH-4, SH-5	
button)	SZ-A22H		
Auxiliary contact block	SZ-AS1	SC-03~N3	
(side mounting,		SH-4, SH-5	
bifurcated)	SZ-AS2	SC-N4~N12	
Auxiliary contact block	SZ-AS1H	SC-03~N3	
(side mounting, single		SH-4, SH-5	
button)	SZ-AS2H	SC-N4~N12	
	SZ-AS3H	SC-N14、N16	

(4) Thermal Overload Relays

Standard thermal overload relays

Frame	Type of magnetic	Separate mounting	Certificate No.
	starters	type	
0N	TR-ON/3	TR-0NH/3	2003010304063397
5-1N	TR-5-1N/3	TR-5-1NH/3	2003010304063400
N2	TR-N2/3	TR-N2H/3	2003010304063425
N3	TR-N3/3	TR-N3H/3	2003010304063404
N5	TR-N5/3		
N6	TR-N6/3	TR-N6H/3	2003010304063447
N7	TR-N7/3		
N8	TR-N8/3		
N10	TR-N10/3	TR-N10H/3	2003010304063429
N12	TR-N12/3	TR-N12H/3	2003010304063434
N14	TR-N14/3	TR-N14H/3	2003010304063406

● 2E thermal overload relays

Frame	Type of magnetic	Separate mounting	Certificate No.
	starters	type	
0N	TK-0N	TK-0NH	2003010304063397
5-1N	TK-5-1N	TK-5-1NH	2003010304063400
N2	TK-N2	TK-N2H	2003010304063425
N3	TK-N3	TK-N3H	2003010304063404
N5			
N6	TK-N6	TK-N6H	2003010304063447
N7	TK-N7		
N8	TK-N8		
N10	TK-N10	TK-N10H	2003010304063429
N12	TK-N12	TK-N12H	2003010304063434
N14	TK-N14	TK-N14H	2003010304063406

Quick operating type thermal overload relays

Frame	Type of magnetic	Separate mounting	Certificate No.
	starters	type	
0N	TR-0NQ	TR-0NQH	2003010304063397
5-1N	TR-5-1NQ	TR-5-1NQH	2003010304063400
N2	TR-N2Q	TR-N2QH	2003010304063425
N3	TR-N3Q	TR-N5Q	2003010304063404
N5	TR-N5Q		

● 2E quick operating type thermal overload relays

Frame	Type of magnetic	Separate mounting	Certificate No.
	starters	type	
0N	TK-0NQ	TK-0NQH	2003010304063397
5-1N	TK-5-1NQ	TK-5-1NQH	2003010304063400
N2	TK-N2Q	TK-N2QH	2003010304063425
N3	TK-N3Q	TK-N3QH	2003010304063404
N5	TK-N5Q		

Automatically resetting type thermal overload relays

Frame	Type of magnetic	Separate mounting	Certificate No.
	starters	type	
0N	TR-0N/3A	TR-0NH/3A	2003010304063397
5-1N	TR-5-1N/3A	TR-5-1NH/3A	2003010304063400
N2	TR-N2/3A	TR-N2H/3A	2003010304063425
N3	TR-N3/3A	TR-N3H/3A	2003010304063404
N5	TR-N5/3A	TK-NOH/OA	
N6	TR-N6/3A		2003010304063447
N7	TR-N7/3A	TR-N6H/3A	
N8	TR-N8/3A		
N10	TR-N10/3A	TR-N10H/3A	2003010304063429
N12	TR-N12/3A	TR-N12H/3A	2003010304063434
N14	TR-N14/3A	TR-N14H/3A	2003010304063406

FC series thermal overload relays

Frame	Type of magnetic starters	Certificate No.
0NF	TR-0NF/3	2003010304063397
	TK-0NF	
	TR-0NFQ	
	TK-0MFQ	
5-1N	TR-5-1N/3	2003010304063400
	TK-5-1N	
	TR-5-1NQ	
	TK-5-1NQ	
N2F	TR-N2F/3	2003010304063425
	TK-N2F	
	TR-N2FQ	
	TK-N2FQ	
N3	TR-N3/3	2003010304063404
	TK-N3	
	TR-N3Q	
	TK-N3Q	

● Thermal overload relays for high-sensitivity contactor

Frame	Type of magnetic starters	Certificate No.
ON	TR-0NZ716/3	2003010304063397
	TK-0NZ716	

(5) Molded Case Circuit Breakers

Mainframe of MCCBs

Series	AF	2-poles	3-poles	Rated breaking current (lcu/lcs) [kA] *1			Certificate No.
				Ue: 230V AC	Ue : 400V AC	Ue: 440V AC	
E	30	EA32AC	EA33AC	2.5/2	1.5/1	1.5/1	2003010307063433
	50	EA52AC	EA53AC	2.5/2	1.5/1	1.5/1	2003010307063433
		EA52C	EA53C	5/3	2.5/2	2.5/2	2003010307063635
	60	EA62C	EA63C	5/3	2.5/2	2.5/2	2003010307063385
	100	-	EA103AC	5/3	1.5/1	-	2003010307063440
		EA102C	EA103C	25/13	10/5	10/5	2003010307063647
	225	EA202C	EA203C	35/18	15/4	-	2004010307116273
		-	EA203CM	35/18	15/4	-	2004010307116273
	400	EA402C	EA403C	35/18	25/13	-	Available in Jan. 2005
	600	-	EA603C	50/25	35/18	-	Available in Jan. 2005
	800	-	EA803C	50/25	35/18	-	Available in Jan. 2005
	30	SA32C	SA33C	5/3	2.5/2	2.5/2	2003010307063635
	50	SA52C	SA53C	10/5	7.5/4	7.5/4	2003010307063640
		SA52RC	SA53RC	25/13	10/5	10/5	2003010307063643
	60	SA62C	SA63C	10/5	7.5/4	7.5/4	2003010307063646
		SA62RC	SA63RC	25/13	10/5	10/5	2003010307063647
	100	SA102C	SA103C	50/25	25/7	-	2004010307116286
		-	SA103CM	50/25	25/7	-	2004010307116286
		SA102RC	SA103RC	100/50	50/13	-	2004010307116288
		-	SA103RCM	100/50	50/13	-	2004010307116288
	225	SA202C	SA203C	50/25	25/7	-	2004010307116280
		-	SA203CM	50/25	25/7	-	2004010307116280
		SA202RC	SA203RC	100/50	50/13	-	2004010307116280
		-	SA203RCM	100/50	50/13	-	2004010307116280
	400	SA402C	SA403C	50/25	35/18	-	Available in Jan. 2005
		SA402RC	SA403RC	85/43	50/25	-	Available in Jan. 2005
	600	-	SA603RC	85/43	50/25	-	Available in Jan. 2005
	800	-	SA803RC	85/43	50/25	-	Available in Jan. 2005

^{*1} For rated breaking current and rated voltage, the values in this table are approved.

(6) Earth Leakage Circuit Breakers

Mainframe of ELCBs

Series	AF	2-pole	3-pole	Rated breaking curr	rent [kA]	Certificate No.
				Ue: 230V	Ue : 400V	
EG	30	EG32AC	EG33AC	2.5/2	-	2004010307138037
		-	EG33C, EG33CM	2.5/2	1.5/1	2004010307138028
	50	EG52AC	EG53AC	2.5/2	-	2004010307138037
		-	EG53C, EG53CM	5/3	2.5/2	2004010307138024
	60	-	EG63C, EG63CM	5/3	2.5/2	2004010307138036
	100	-	EG103AC	5/3	2.5/2	2004010307138038
		EG102C	-	10/5	-	2004010307138025
		-	EG103C, EG103CM	25/13	10/5	2004010307138027
	225	-	EG203C, EG203CM	35/18	15/4	2005010307140482
	400	-	EG403C	35/18	25/13	2004010307138029
SG	30	-	SG33C, SG33CM	5/3	2.5/2	2004010307138024
	50	-	SG53RC	25/13	10/5	2004010307138026
		-	SG53C, SG53CM	10/5	7.5/4	2004010307138031
	60	-	SG63C, SG63CM	10/5	7.5/4	2004010307138033
		-	SG63RC	25/13	10/5	2004010307138027
	100	-	SG103C, SG103CM	50/25	25/7	2005010307140481
		-	SG103RC, SG103RCM	100/50	50/13	2004010307138030
	225	-	SG203C, SG203CM	50/25	25/7	2004010307138035
		-	SG203RC, SG203RCM	100/50	50/13	2004010307138035
	400	-	SG403C	50/25	35/18	2004010307138029
		-	SG403RC	85/43	50/25	2004010307138029

● Internal accessories of MCCBs and ELCBs 30 TO 100AF

• 2-pole

Internal accessories	Type of breaker	Certificate No.
NA (A :III)	with accessory	22224222222442
W (Auxiliary)	EA32AC/□■	2003010307063443
K (Alarm) F (Shunt trip)	EA52AC/□■	2003010307063443
R (Undervoltage trip)	EA52C/□■	2003010307063635
W+K	EA62C/□■	2003010307063385
W+R	EA102RC/□■	2003010307063645
K+R W+K+R	SA32C/□■	2003010307063635
WTKTK	SA52C/□■	2003010307063640
	SA52RC/□■	2003010307063643
	SA62C/□■	2003010307063646
	SA62RC/□■	2003010307063647
	EG32AC/□■	
	EG52AC/□■	
1	EG102C/□■	

100 and 225AF

• 2-pole / 3-pole

Internal accessories	Type of breaker	Certificate No.
	with accessory	
W (Auxiliary)	EA202C/□■	2004010307116278
K (Alarm)	EA203C/□■	
F (Shunt trip) R (Undervoltage trip)	EA203CM/□■	
W2	SA103C/□■	2004010307116286
W+K	SA103CM/□■	
K2	SA102RC/□■	2004010307116288
W+K2 W2+K2	SA103RC/□■	
W+F	SA103RCM/□■	
W+R	SA202C/□■	2004010307116280
	SA203C/□■	
K+F	SA203CM/□■	
K+R	SA202RC/□■	
K2+R W+K+F	SA203RC/□■	
W+K+R	SA203RCM/□■	
	EG203C/□■	
	EG203CM/□■	
	SG103C/□■	
	SG103CM/□■	
	SG103RC/□■	
	SG103RCM/□■	
	SG203C/□■	
	SG203CM/□■	
	SG203RC/□■	
	SG203RCM/□■	

• 2-pole/3-pole

with accessory EA33AC/□■ 2003010307063433 K (Alarm) EA33AC/□■ 2003010307063433 EA53AC/□■ 2003010307063433 EA53AC/□■ 2003010307063433 EA53AC/□■ 2003010307063385 EA53C/□■ 2003010307063385 EA53C/□■ 2003010307063385 EA53C/□■ 2003010307063440 EA53CM/□■ 2003010307063440 EA53CM/□■ 2003010307063647 EA53CM/□■ 2003010307063647 EA53CM/□■ 2003010307063640 EA53CM/□■ 2003010307063640 EA53CM/□■ 2003010307063640 EA53CM/□■ 2003010307063646 EA53CM/□■ 2003010307063646 EA53CM/□■ 2003010307063647 EA53CM/□■ 2003010307063647 EA53CM/□■ 2003010307063647 EA53CM/□■	Available accessories	Type of breaker	Certificate No.
K (Ålarm) EA33ACM/□ 2003010307063433 F (Shunt trip) EA53AC/□ 2003010307063635 W+K EA53CM/□ 2003010307063385 EA53CM/□ 2003010307063440 K2 EA63C/□ 2003010307063647 W+K2 EA63CM/□ 2003010307063647 W+F EA103AC/□ 2003010307063645 W+R EA103C/□ 2003010307063640 W+R EA103CM/□ 2003010307063643 W2+R EA103CM/□ 2003010307063646 K+F SA33C/□ 2003010307063647 W+K+R SA53CM/□ 2003010307063647 W+K+R <t< td=""><td></td><td>with accessory</td><td></td></t<>		with accessory	
F (Shunt trip) R (Undervoltage trip) W2 W+K EA53C/□■ EA53C/□■ EA53C/□■ EA53C/□■ EA53C/□■ EA53C/□■ 2003010307063385 W+K EA63C/□■ 2003010307063440 K2 W+K2 W2+K2 W4+K2 W4+K EA63CM/□■ EA63CM/□■ EA63CM/□■ EA63CM/□■ 2003010307063647 W2+R EA103CM/□■ EA103C		EA33AC/□■	2003010307063433
R (Undervoltage trip) W2 W+K EA53C/□■ 2003010307063385 EA53CM/□■ 2003010307063385 EA53CM/□■ 2003010307063440 K2 W+K2 W2+K2 W4+K2 W4+F EA63CM/□■ 2003010307063647 W4+R EA103C/□■ 2003010307063640 W+R EA103C/□■ 2003010307063643 W2+R K+F K+R SA33C/□■ 2003010307063646 K+F K+R SA33C/□■ 2003010307063646 EA103CM/□■ 200		EA33ACM/□■	2003010307063433
W2 EA53C/□■ 2003010307063385 W+K EA53CM/□■ 2003010307063440 K2 EA63C/□■ 2003010307063647 W+K2 EA63CM/□■ 2003010307063647 W2+K2 EA103AC/□■ 2003010307063635 W+F EA103C/□■ 2003010307063640 W2+R EA103C/□■ 2003010307063643 K+F SA33C/□■ 2003010307063646 K+F SA33C/□■ 2003010307063647 W+K+F SA53C/□■ SA63C/□■ W+K+F SA53C/□■ SA63C/□■ SA63C/□■ EG33C/□■ EG33C/□■ EG53C/□■ EG53C/□■ EG53C/□■ EG63C/□■ EG103C/□■ EG102C/□■ EG103C/□■ EG103C/□■ EG103C/□■		EA53AC/□■	2003010307063635
K2 EA63C/□■ 2003010307063647 W+K2 EA63CM/□■ 2003010307063647 W2+K2 EA63CM/□■ 2003010307063640 W+F EA103C/□■ 2003010307063643 W2+R EA103CM/□■ 2003010307063646 K+F SA33C/□■ 2003010307063647 K2+R SA33CM/□■ 2003010307063647 W+K+F SA53CM/□■ 2003010307063647 W+K+F SA53CM/□■ 2003010307063647 W+K+R SA53CM/□■ 2003010307063646 W+K+R SA53CM/□■ 2003010307063646 W+K+R SA53CM/□■ 2003010307063647 W+K+R SA53CM/□■ 2003010307063647 W+K+R SA53CM/□■ 2003010307063647 W+K+R SA53CM/□■ 2003010307063647 W+K+R SA53CM/□■ 2003010307063647 <tr< td=""><td></td><td>EA53C/□■</td><td>2003010307063385</td></tr<>		EA53C/□■	2003010307063385
W+K2 W2+K2 W2+K2 W+F EA63CM/□■ EA103AC/□■ W+R EA103C/□■ EA103C/□■ 2003010307063640 W+R EA103C/□■ 2003010307063643 W2+R EA103CM/□■ 2003010307063646 K+F SA33C/□■ W+K+F SA33CM/□■ W+K+F SA53CM/□■ W2+K+R W2+K+R SA53RCM/□■ SA63CM/□■ SA63CM/□■ SA63CM/□■ EG33CM/□■ EG33CM/□■ EG33CM/□■ EG53CM/□■ EG53CM/□■ EG63CM/□■		EA53CM/□■	2003010307063440
W2+K2		EA63C/□■	2003010307063647
W+F EA103AC/□■ 2003010307063640 W2+R EA103C/□■ 2003010307063643 K+F EA103C/□■ 2003010307063646 K+R SA33C/□■ 2003010307063647 K2+R SA33C/□■ 2003010307063647 W+K+F SA53C/□■ SA53C/□■ W+K+R SA53C/□■ SA53C/□■ W2+K2+R SA53RC/□■ SA63C/□■ SA63C/□■ SA63C/□■ EG33C/□■ EG33C/□■ EG53C/□■ EG53C/□■ EG53C/□■ EG63C/□■ EG63C/□■ EG63C/□■ EG63C/□■ EG103AC/□■ EG102C/□■ EG103C/□■ EG103C/□■		EA63CM/□■	2003010307063635
W2+R EA103CM/□ 2003010307063646 K+F SA33C/□ 2003010307063647 K2+R SA33CM/□ 2003010307063647 W+K+R SA53CM/□ 2003010307063647 W+K+F SA53CM/□ 2003010307063647 W+K+R SA53CM/□ 2003010307063647 W+K+C+R SA53CM/□ 2003010307063647 SA63CM/□ 2003010307063647 2003010307063647 W+K+C+R SA53CM/□ 2003010307063647 <t< td=""><td></td><td>EA103AC/□■</td><td>2003010307063640</td></t<>		EA103AC/□■	2003010307063640
K+F SA33C/□ 2003010307063647 K2+R SA33CM/□ 2003010307063647 W+K+F SA53CM/□ 3000000000000000000000000000000000000	W+R	EA103C/□■	2003010307063643
K+R SA33C/□ 2003010307063647 K2+R SA33C/□ 2003010307063647 W+K+F SA53C/□ 3A33C/□ W+K+R SA53C/□ 3A53RC/□ W+K2+R SA53RC/□ 3A63C/□ SA63C/□ SA63C/□ 5A63C/□ EG33AC/□ EG33C/□ EG33C/□ EG33C/□ EG53C/□ EG53C/□ EG53C/□ EG63C/□ EG63C/□ EG63C/□ EG103AC/□ EG103C/□ EG103C/□ EG103C/□ EG103C/□		EA103CM/□■	2003010307063646
K2+R SA33CM/□ W+K+F SA53C/□ W2+K+R SA53CM/□ W2+K2+R SA53RC/□ SA63C/□ SA63C/□ SA63C/□ SA63C/□ SA63C/□ SA63C/□ EG33C/□ EG33C/□ EG33C/□ EG53C/□ EG53C/□ EG53C/□ EG63C/□ EG63C/□ EG63C/□ EG63C/□ EG103AC/□ EG103C/□ EG103C/□ EG103C/□		SA33C/□■	2003010307063647
W+K+R W2+K+R W+K2+R SA53RC/□■ SA63C/□■ SA63C/□■ SA63C/□■ SA63C/□■ SA63C/□■ EG33C/□■ EG33C/□■ EG53C/□■ EG53C/□■ EG53C/□■ EG63C/□■ EG103C/□■ EG103C/□■		SA33CM/□■	
W2+K+R W+K2+R W2+K2+R SA53RC/□■ SA63C/□■ SA63C/□■ SA63C/□■ SA63C/□■ EG33C/□■ EG33C/□■ EG53C/□■ EG53C/□■ EG53C/□■ EG63C/□■ EG103C/□■ EG103C/□■ EG103C/□■	W+K+F	SA53C/□■	
W+K2+R W2+K2+R SA53RC/□ SA63C/□ SA63C/□ SA63C/□ SA63C/□ SA63C/□ EG33C/□ EG33C/□ EG53C/□ EG53C/□ EG53C/□ EG63C/□		SA53CM/□■	
W2+K2+R SA53RCM/□■ SA63C/□■ SA63RC/□■ SA63CM/□■ EG33AC/□■ EG33C/□■ EG33CM/□■ EG53AC/□■ EG53CM/□■ EG53CM/□■ EG63CM/□■ EG63CM/□■ EG63CM/□■ EG103AC/□■ EG103C/□■ EG102C/□■ EG103C/□■		SA53RC/□■	
SA63C/□ SA63RC/□ SA63CM/□ SA63CM/□ EG33AC/□ EG33C/□ EG33CM/□ EG53C/□ EG53C/□ EG53CM/□ EG63CM/□		SA53RCM/□■	
SA63CM/□ EG33AC/□ EG33C/□ EG33CM/□ EG53C/□ EG53C/□ EG53CM/□ EG63CM/□ EG63CM/□ EG63CM/□ EG63CM/□ EG63CM/□ EG63CM/□ EG63CM/□ EG103AC/□ EG103C/□□ EG103C/□□		SA63C/□■	
EG33AC/□ EG33C/□ EG33C/□ EG33C/□ EG53AC/□ EG53C/□ EG53C/□ EG63C/□ EG63C/□ EG63C/□ EG63C/□ EG63C/□ EG63C/□ EG103AC/□ EG103AC/□ EG103C/□ EG103C/□		SA63RC/□■	
EG33C/□ EG33CM/□ EG53AC/□ EG53AC/□ EG53CM/□ EG63CM/□ EG63CM/□ EG63CM/□ EG63CM/□ EG103AC/□ EG103C/□ EG103C/□ EG103C/□		SA63CM/□■	
EG33CM/□ EG53AC/□ EG53C//□ EG53CM/□ EG63CM/□ EG63CM/□ EG63CM/□ EG103AC/□ EG103C//□ EG103C//□ EG103C//□		EG33AC/□■	
EG53AC/□ EG53C/□ EG53CM/□ EG63C/□ EG63CM/□ EG63CM/□ EG103AC/□ EG103C/□ EG103C/□ EG103C/□ EG103C/□		EG33C/□■	
EG53C/□ EG53CM/□ EG63C/□ EG63CM/□ EG63CM/□ EG103AC/□ EG102C/□ EG103C/□ EG103C/□ EG103C/□		EG33CM/□■	
EG53CM/□ EG63C//□ EG63CM/□ EG103AC/□ EG102C/□ EG103C/□ EG103C/□ EG103C/□		EG53AC/□■	
EG63C/□ EG63CM/□ EG103AC/□ EG102C/□ EG103C/□ EG103C/□ EG103C/□		EG53C/□■	
EG63CM/□ ■ EG103AC/□ ■ EG102C/□ ■ EG103C/□ ■		EG53CM/□■	
EG103AC/□■ EG102C/□■ EG103C/□■		EG63C/□■	
EG102C/□■ EG103C/□■		EG63CM/□■	
EG103C/□■		EG103AC/□■	
		EG102C/□■	
EG103CM/□■		EG103C/□■	
		EG103CM/□■	

Notes 1: Replace the \square mark by the rated current code.

2: Replace the ■ mark by required accessory code. 2: Replace the ■ mark by required accession.

Example Breaker:SA52C with W, K and R

Type number: SA52C/50WKR

100AF

• 2-pole

• 2-pole		
Internal accessories	Type of breaker with accessory	Certificate No.
W (Auxiliary) K (Alarm) F (Shunt trip) R (Undervoltage trip) W+K	SA102C/□■	2004010307116286

400, 600, 800AF

• 2-pole / 3-pole

Available accessories	Type of breaker	Certificate No.
	with accessory	
W (Auxiliary)	EA402C/□■	Available in Jan. 2005
K (Alarm)	EA403C/□■	
F (Shunt trip) R (Undervoltage trip)	EA603C/□■	
W2	EA803C/□■	
W+K	SA402RC/□■	Available in Jan. 2005
W2+K	SA403RC/□■	
K2 W+K2	SA603RC/□■	
W2+K2	SA803RC/□■	
W+F	EG403C/□■	200401030718029
W+R	SG403C/□■	
W2+R K+F	SG403RC/□■	
K+R		
K2+R		
W+K+F		
W+K+R		
K2+F		
K2+R		
W2+K+F		
W2+K+R		
W+K2+F		
W+K2+R		
W2+K2+F		
W2+K2+R		

External operating handle (optional equipment)

Handle		Applicable type	Certificate No.
N type V type			
BZ6N10C	BZ6V10C	EA32AC,EA33AC,EA33ACM,EA52AC,EA53AC	Certified according to an
		EA52C,EA53C,EA53CM,EA62C,EA63C,EA63CM	applicable main body.
		EA103AC,EA102C,EA103C,EA103CM	
		SA32C,SA33C,SA32CM,SA33CM,SA53C,SA53CM	
		SA52C,SA53C,SA53CM,SA62C,SA63C,SA63CM	
		SA62RC,SA63RC	
		EG32AC,EG33AC,EG33C,EG33CM	
		EG52AC,EG53AC,EG53C,EG53CM	
		EG63C,EG63CM,EG103AC,EG103C,EG103CM	
BZ6N30C	BZ6V30C	SA102C	
		SA103C	
		SA103CM	
		SA102RC	
		SA103RC	
		SA103RCM	
		SG103C,SG103CM,SG103RC,SG103RCM	
BZ6N40C	BZ6V40C	SA202C	
		SA203C	
		SA203CM	
		SA202RC	
		SA203RC	
		SA203RCM	
		EA202C	
		EA203C	
		EA203CM	
		EG203C,EG203CM	
		SG203C,SG203CM,SG203RC,SG203RCM	
BZ-N60C	BZ6V60C	EA402C	
		EA403C	
		SA402C	
		SA403C	
		SA402RC	
		SA403RC	
		EG403C,SG403C,SG403RC	
BZ-N70C	BZ6V70C	EA603C	
		EA803C	
		SA603RC	
		SA803RC	

(7) Pushbuttons, Selector Switches, Pilot Lights

● AR22/DR22 and AD30/DR30 Series

a. Pushbutton switches

Bezel	Operator	Туре					
		AR22		AR30	AR30		
		Momentary action	Alternate action	Momentary action	Alternate action		
			(Turn-reset for V5R)		(Turn-reset for V5R)		
Round bezel	Flush round head	AR22F0R	AR22F5R	AR30F0R	AR30F5R		
	Extended round head	AR22E0R	AR22E5R	AR30E0R	AR30E5R		
	Flush round head (symbol mark type)	AR22FAR	AR22FBR	AR30FAR	AR30FBR		
	Extended round head (symbol mark type)	AR22EAR	AR22EBR	AR30EAR	AR30EBR		
	Extended with half guard	AR22G0R	AR22G5R	AR30G0R	AR30G5R		
	Extended with full guard (24mm dia.)	AR22G3R	AR22G8R	AR30G1R	AR30G6R		
	Flush with full guard (24mm dia.)	AR22G2R	_	_	_		
	Mushroom head with full guard (40mm dia.)	AR22M3R	-	AR30M3R	AR30M8R		
	Mushroom head with full guard (35mm dia. metal nut)	-	_	AR30GSR	_		
	Mushroom head (29mm dia.)	AR22M4R	AR22M9R	AR30M4R	-		
	Mushroom head (40mm dia.)	AR22M0R	AR22M5R	AR30M0R	AR30M5R		
	Giant head	_	_	AR30B0R	-		
	Giant head with guard	-	_	AR30B1R	_		
	Giant head with full guard	_	_	AR30B2R	-		
	Giant head with full guard	-	_	AR30B3R	_		
	Push-lock, turn-reset (40mm dia, with white arrow)	_	AR22V5R	_	AR30V5R		
Square bezel	Flush square head	AR22F0S	AR22F5S	_	_		
	Extended square head	AR22E0S	AR22E5S	_	_		
	Flush round head	AR22F0Y	AR22F5Y	_	_		
	Extended round head	AR22E0Y	AR22E5Y	_	-		
	Mushroom head	AR22M4Y	_	_	_		
Certificate No.		2003010305063372		2003010305063384			

Note: Certified contact: within 4 contacts (1NO, 1NC, 1NO+1NC, 2NO, 2NO, 3NO, 3NC, 2NO+2NC, 4NO, 4NC)

b. Ring selection type pushbutton switches

Bezel	Operator	Туре		
		AR22	AR30	
Round bezel	ound bezel With selector ring	AR22S1R	AR30S1R	
		AR22S2R	AR30S2R	
		AR22S3R	AR30S3R	
	AR22S6R	AR30S6R		
Certificate No.		2003010305063372	2003010305063384	

Note: Certified contact: 2NO+2NC (S2R: 2NO is also certified)

c. Emergency stop pushbutton switches

Bezel	Operator	Туре				
		AR22		AR30		
		With white arrow (soft-touch)	No white arrow	With white arrow (soft-touch)	No white arrow	
Round bezel	Push-lock, turn-reset (29mm dia.)	AR22VSR	AR22V4R	_	_	
	Push-lock, turn-reset (40mm dia.)	AR22V0R	AR22V2R	AR30V0R	AR30V2R	
	Push-lock, turn-reset (65mm dia.)	_	_	AR30V1R	_	
	Key-release push-lock, turn-reset (40mm dia.)	_	AR22V7R	_	_	
	Push-look, pull-reset (35mm dia.)	_	AR22Q2R	_	AR30Q2R	
Certificate No.	<u> </u>	2003010305063372	<u> </u>	2003010305063384	<u>.</u>	

Note 1: Certified contact: 1NC, 1NO+1NC, 2NC, 3NC, 2NO+2NC, 4NC (except for Q2R type) 2: Certified contact of Q2R type: 1NC, 1NO+1NC and 2NC only 3: Certified button color: red (R) only

d. Illuminated pushbutton switches

Operator	Туре				
	AR22		AR30		
	Momentary	Alternate	Momentary	Alternate	
Flush round head	AR22F0L	AR22F5L	_	_	
Extended round head	AR22E0L	AR22E5L	AR30E0L	AR30E5L	
Mushroom head (29mm dia.)	AR22M4L	AR22M9L	_	_	
Mushroom head (40mm dia.)	AR22M0L	AR22M5L	_	_	
Extended with transparent full guard (24mm dia.)	AR22G4L	AR22G9L	AR30G4L	AR30G9L	
Extended with full guard (24mm dia. with openings)	AR22G2L	AR22G7L	AR30G2L	AR30G7L	
Extended with full guard (24mm dia.)	AR22G1L	AR22G6L	AR30G3L	AR30G8L	
Push-lock, turn-reset (40mm dia. with white arrow)	_	_	_	AR30V5L	
Flush square head	AR22F0M	AR22F5M	_	_	
Extended square head	AR22E0M	AR22E5M	_	_	
Flush round head	AR22F0P	AR22F5P	_	_	
Extended round head	AR22E0P	AR22E5P	_	_	
Mushroom head	AR22M4P	_	_	_	
	2003010305063372		2003010305063384		
	(1NO, 1NC, 1NO+ With transformer: wit Color of button Green, red, white, ye Light source LED lamp, incandesc Operating voltage of lam Without transformer LED: 6V AC, 6V E Incandescent lam LED, incandescer With transformer	1NC, 2NO, 2NC, 3NO, 3NO, 1NC, hin 2 contacts (1NO, 1NC, lllow, orange, blue cent lamp p OC, 12V AC/DC p: 5.5V AC/DC, 20V AC/DC tt lamp: 15V AC/DC, 24V Act lamp: 100-110V AC, 115-	(1NO+1NC, 2NO, 2NC) C/DC -127V AC, 200-220V AC,		
	Flush round head Extended round head Mushroom head (29mm dia.) Mushroom head (40mm dia.) Extended with transparent full guard (24mm dia.) Extended with full guard (24mm dia. with openings) Extended with full guard (24mm dia.) Push-lock, turn-reset (40mm dia. with white arrow) Flush square head Extended square head Flush round head Extended round head	Flush round head AR22 Momentary Flush round head AR22F0L Extended round head AR22E0L Mushroom head (29mm dia.) AR22M4L Mushroom head (40mm dia.) Extended with transparent full guard (24mm dia.) Extended with full guard (24mm dia.) AR22G1L Extended with full guard (24mm dia.) Flush-lock, turn-reset (40mm dia. with white arrow) Flush square head Extended square head AR22F0M Extended round head AR22E0M Mushroom head AR22E0P Mushroom head AR22E0P Contact Without transformer: (1NO, 1NC, 1NO+ With transformer: with color of button Green, red, white, ye Light source LED lamp, incandesce LED lamp, incandesce LED incandescent lam LED, in candescent LED, in candescent Without transformer	AR22 Momentary Alternate	AR22	

e. Emergency stop illuminated pushbutton switches

Bezel	Operator	Туре			
		AR22		AR30	
		With white arrow	No white arrow	With white arrow	No white arrow
		(soft-touch)		(soft-touch)	
Round bezel	Push-lock, turn-reset (29mm dia.)	AR22VSL	_	_	_
	Push-lock, turn-reset (40mm dia.)	AR22V0L	AR22V2L	AR30V0L	AR30V2L
	Push-lock, turn-reset (40mm dia. transparent in all colors)	AR22VDL	AR22VAL	_	_
Certificate No.		2003010305063372	*	2003010305063384	

480V AC, 500-550V AC

f. Selector switches

Bezel	Operator	Туре	Туре				
		AR22		AR30			
		Standard type	Control type	Standard type	Control type		
Round bezel	Knob	AR22PR	AR22PCR	AR30PR	AR30PCR		
	Lever	AR22WR	AR22WCR	AR30WR	AR30WCR		
	Cylindrical knob	AR22RR	AR22RCR	_	_		
	Key	AR22JR	AR22JCR	AR30JR	AR30JCR		
	Key (long durability)	AR22JAR	_	AR30JAR	_		
Square bezel	Knob	AR22PY	AR22PCY	_	_		
	Lever	AR22WY	AR22WCY	_	_		
	Cylindrical knob	AR22RY	AR22RCY	_	_		
	Key	AR22JY	AR22JCY	_	_		
Certificate No.		2003010305063372		2003010305063384			

Note: Certified contact: within 4 contacts (1NO, 1NC, 1NO+1NC, 2NO, 2NO, 3NO, 3NO, 3NO, 2NO+2NO, 4NO, 4NO)

g. Illuminated selector switches

Bezel	Operator	Туре		
		AR22	AR30	
		Standard type	Standard type	
Round bezel	Knob	AR22PL	AR30PL	
Square bezel	Knob	AR22PP	_	
Certificate No.		2003010305063372	2003010305063384	

Note 1: Certified contact without transformer: within 3 contacts (1NO, 1NC, 1NO+1NC, 2NO, 2NC, 3NO, 3NC)
2: Certified contact with transformer: within 2 contacts (1NO, 1NC, 1NO+1NC, 2NO, 2NC)
3: Certified lamp: both LED and incandescent lamp

Note 1: Certified contact without transformer: 1NC, 1NO+1NC, 2NC, 3NC 2: Certified contact with transformer: 1NC, 1NO+1NC, 2NC 3: Certified button color: red (R) only

h. Pilot lights

Bezel	Lens	Туре	
		DR22	DR30
Round bezel	Dome	DR22D0L	DR30D0L
	Extended round	DR22E3L	DR30E3L
	Faceted	DR22K0L	DR30K0L
Square bezel	Flush square	DR22F3M	_
	Flush square (transparent lens)	DR22F4M	DR30F4M
	Flush square (12mm high frame)	DR22F5M	-
	Extended square	DR22E3M	_
	Flush rectangular	DR22E3N	-
	Flush rectangular (transparent lens)	_	DR30F4N
	Flush square large type (transparent lens)	_	DR30M4M
	Extended round	DR22E3P	_
Certificate No.		2003010305063383	2003010305063487

Note 1: Certified lamp: both LED and incandescent lamp 2: Certified transformer type: standard and short-body 3: Except for with resistor/resistor unit

i. Item with degree of protection IP2X (IP20)

Туре	Certificate No.
AR22□ZB	2003010305063372
AR30□ZB	2003010305063384
DR22□ZB	2003010305063383
DR30□ZB	2003010305063487

Note: Certified for all types listed in the above items except for short-body transformer of pilot light.

AH164, 165, 165-2 Series

a. Pushbutton switches

Operator	Туре						
	AH164		AH165	AH165		AH165-2	
	Momentary action	Alternate action	Momentary action	Alternate action	Momentary action	Alternate action	
				(Turn-reset for V, V1)		(Turn-reset for 2V, 2YV)	
Flush round head	_	_	_	_	AH165-2F	AH165-2F5	
Extended round head	AH164-E	AH164-E5	AH165-E	AH165-E5	AH165-2E	AH165-2E5	
Extended square head	_	_	_	_	AH165-2SE	AH165-2SE5	
Extended square concave head	_	_	_	-	AH165-2SCE	AH165-2SCE5	
Flush square head	AH164-SF	AH164-SF5	AH165-SF	AH165-SF5	AH165-2SF	AH165-2SF5	
Flush rectangular head	AH164-TF	AH164-TF5	AH165-TF	AH165-TF5	_	_	
Flush square head with guard	AH164-SGF	AH164-SGF5	AH165-SGF	AH165-SGF5	_	-	
Flush rectangular head with guard	AH164-TGF	AH164-TGF5	AH165-TGF	AH165-TGF5	_	_	
Mushroom head (round bezel)	_	_	_	-	AH165-2M	-	
Mushroom head (square bezel)	_	_	_	-	AH165-2YM	-	
Mushroom head	AH164-M	AH164-M5	AH165-M	AH165-M5	_	_	
Convex square head	AH164-SM	AH164-SM5	AH165-SM	AH165-SM5	_	_	
Convex rectangular head	AH164-TM	AH164-TM5	AH165-TM	AH165-TM5	_	_	
Push-locked (round bezel)	_	_	_	AH165-V	_	AH165-2V	
Push-locked large type	_	_	_	AH165-V1	_	-	
Push-locked (square bezel)	_	_	_	-	_	AH165-2YV	
Certificate No.	2003010305071068	•	•	•	•	•	

Note 1: Certified contact: 1NO+1NC, 2NO+2NC, 3NO+3NC. AH165-V and -V1: 1NC and 2NC only.

2: Certified button color: all in manufactured range of corresponding type. AH165-V and -V1: red (R) only.

3: Certified terminal shape: for soldering and tab, and for wrapping. AH165-V and -V1: soldering and tab only.

b. Ring selection type pushbutton switches

Operator	Туре
	AH165-2
With selector ring (round bezel)	AH165-2S2
With selector ring (square bezel)	AH165-2YS2
Certificate No.	2003010305071068

Note: Certified contact: 2NO+2NC

c. Emergency stop pushbutton switches

Operator	Туре
	AH165
Push-lock, turn-reset (32mm dia.)	AH165-V5
Push-lock, turn-reset (40mm dia.)	AH165-V6
Certificate No.	2003010305071068

Note 1: Certified contact: 1NC and 2NC only 2: Certified button color: red (R) only 3: Certified terminal shape: soldering and tab only

d. Illuminated pushbutton switches

Operator	Type						
	AH164		AH165	AH165		AH165-2	
	Momentary action	Alternate action	Momentary action	Alternate action	Momentary action	Alternate action (Turn-reset for 2VL, 2YVL)	
Flush round head	_	_	_	_	AH165-2FL	AH165-2FL5	
Extended round head	AH164-L	AH164-L5	AH165-L	AH165-L5	AH165-2EL	AH165-2EL5	
Extended square head	_	_	_	_	AH165-2SEL	AH165-2SEL5	
Concave square head	_	_	_	_	AH165-2SCL	AH165-2SCL5	
Flush square head	AH164-SL	AH164-SL5	AH165-SL	AH165-SL5	AH165-2SFL	AH165-2SFL5	
lush rectangular head	AH164-TL	AH164-TL5	AH165-TL	AH165-TL5	-	_	
lush square head with guard	AH164-SGL	AH164-SGL5	AH165-SGL	AH165-SGL5	_	_	
Flush rectangular head with guard	AH164-TGL	AH164-TGL5	AH165-TGL	AH165-TGL5	-	_	
Mushroom head (round bezel)	-	-	_	_	AH165-2ML	_	
Mushroom head (square bezel)	_	_	_	_	AH165-2YML	_	
Push-locked (round bezel)	_	_	_	_	-	AH165-2VL	
Push-locked (square bezel)	_	_	_	_	_	AH165-2YVL	
Certificate No.	2003010305071068						

- Note 1: Certified contact: 1NO+1NC, 2NO+2NC, 3NO+3NC
 2: Certified terminal shape: for soldering and tab, and for wrapping.
 3: Certified lamp: LED, incandescent lamp and neon
 4: Certified operating lamp voltage: 6, 12 and 24V DC (LED)/ 5, 12, 15 and 24V AC/DC (incandescent lamp) / 110, 120, 220 and 240V AC (neon)
 (LED and incandescent lamps with transformer are not certified.)
 - 5: The spot LED type and 2-color LED type have not been approved.

e. Selector switches (Standard)

Operator	Туре			
	AH164	AH165	AH165-2	
Knob (round bezel)	_	_	AH165-2P	
Knob (rectangular bezel)	AH164-P	AH165-P	_	
Knob (square bezel)	AH164-SP	AH165-SP	AH165-2YP	
Key (round bezel)	_	_	AH165-2J	
Key (rectangular bezel)	AH164-J	AH165-J	_	
Key (square bezel)	AH164-SJ	AH165-SJ	AH165-2YJ	
Key, 45-degree notch	AH164-JK	AH165-JK	_	
(rectangular bezel)				
Certificate No.	2003010305071068			

f. Selector switches (Direct opening action)

Operator	Туре
Key (rectangular bezel)	AH165-JM2
Key (round bezel)	AH165-RJM2
Certificate No.	2003010305071068

g. Illuminated selector switches

Operator	Туре
Knob (round bezel)	AH165-2PL
Certificate No.	2003010305071068

Note 1: Certified contact: 1NO+1NC, 2NO+2NC

h. Pilot light

Lens	Type			
	AH164	AH165	AH165-2	
Flush round	_	_	AH165-2Z	
Extended round	AH164-Z	AH165-Z	AH165-2ZE	
Extended square	_	_	AH165-2SZE	
Flush square	AH164-ZS	AH165-ZS	AH165-2SZ	
Flush rectangular	AH164-ZT	AH165-ZT	_	
Certificate No.	2003010305071044			

Note 1: Certified lamp: LED, incandescent lamp and neon

Note 1: Certified contact: 1NO+1NC, 2NO+2NC, 3NO+3NC 2: Certified terminal shape: for soldering and tab, and for wrapping

Note 1: Certified contact: 1NO+1NC, 2NO+2NC 2: Certified position quantity: 2-position only. Certified returning method: maintained only.

Certified operating lamp voltage: 6, 12 and 24V DC (LED)/ 5, 12, 15 and 24V AC/DC (incandescent lamp)

^{2:} Certified operating lamp voltage: 6, 12 and 24V DC (LED)/ 5, 12, 15 and 24V AC/DC (incandescent lamp)/ 110, 120, 220 and 240V AC (neon) (LED and incandescent lamp with transformer are not certified.)

^{3:} The spot LED type and 2-color LED type have not been approved.

● **φ**16 AH16P, 16P-2 Series

a. Pushbutton switches(Operator)

Operator	Type				
	AH16P		AH16P-2		
	Momentary action	Alternate action	Momentary action	Alternate action	
Flush round head	_	_	AH16P-2F	AH16P-2F5	
Extended round head	AH16P-E	AH16P-E5	AH16P-2E	AH16P-2E5	
Extended square head	_	_	AH16P-2SE	AH16P-2SE5	
Extended square concave head	_	_	AH16P-2SCE	AH16P-2SCE5	
Flush square head	AH16P-SF	AH16P-SF5	AH16P-2SF	AH16P-2SF5	
Flush rectangular head	AH16P-TF	AH16P-TF5	_	_	
Flush square head with guard	AH16P-SGF	AH16P-SGF5	_	_	
Flush rectangular head with guard	AH16P-TGF	AH16P-TGF5	_	_	
Mushroom head (round bezel)	_	_	AH16P-2M	_	
Mushroom head (square bezel)	_	_	AH16P-2YM	_	
Push-locked (round bezel)	_	_	_	AH16P-2V	
Push-locked (square bezel)	_	_	_	AH16P-2YV	
Certificate No.	2003010305071068	·	·		

b. Ring selection type pushbutton switches(Operator)

Operator	Туре		
	AH16P	AH16P-2	
With selector ring (round bezel)	-	AH16P-2S2	
With selector ring (square bezel)	_	AH16P-2YS2	
Certificate No.	2003010305071068		

c. Illuminated pushbutton switches(Operator)

Operator	Туре			
	AH16P	AH16P		
	Momentary action	Alternate action	Momentary action	Alternate action
Flush round head	-	_	AH16P-2FL	AH16P-2FL5
Extended round head	AH16P-L	AH16P-L5	AH16P-2EL	AH16P-2EL5
Extended square head	-	_	AH16P-2SEL	AH16P-2SEL5
Extended square concave head	_	_	AH16P-2SCL	AH16P-2SCL5
Flush square head	AH16P-SL	AH16P-SL5	AH16P-2SFL	AH16P-2SFL5
Flush rectangular head	AH16P-TL	AH16P-TL5	_	_
Flush square head with guard	AH16P-SGL	AH16P-SGL5	_	_
Flush rectangular head with guard	AH16P-TGL	AH16P-TGL5	_	_
Mushroom head (round bezel)	_	_	AH16P-2ML	_
Mushroom head (square bezel)	_	_	AH16P-2YML	_
Push-locked (round bezel)	_	_	_	AH16P-2VL
Push-locked (square bezel)	_	_	_	AH16P-2YVL
Certificate No.	2003010305071068			

d. Selector switches (Operator)

Operator	Туре	
	AH16P	AH16P-2
Knob (round bezel)	_	AH16P-2P
Knob (rectangular bezel)	AH16P-P	_
Knob (square bezel)	AH16P-SP	AH16P-2YP
Key (round bezel)	_	AH16P-2J
Key (rectangular bezel)	AH16P-J	_
Key (square bezel)	AH16P-SJ	AH16P-2YJ
Certificate No.	2003010305071068	

Note Certified Knob color: black only.

f. Pilot light

Lens	Туре		
	AH16P	AH16P-2	
Flush round	_	AH16P-2Z	
Extended round	AH16P-Z	AH16P-2ZE	
Extended square	_	AH16P-2SZE	
Flush square	AH16P-ZS	AH16P-2SZ	
Flush rectangular	AH16P-ZT	_	
Certificate No.	2003010305071044	2003010305071044	

e. Contact part(AH16P and AH16P-2 sharing)

Usage	Туре	
Illuminated	AH16P-L11	
	AH16P-L22	
Non-Illuminated	AH16P-11	
	AH16P-22	
Pilot light	AH16P-Z1	
Certificate No.	2003010305071068	

Note 1: Certified lamp: LED, incandescent lamp.
2: Certified operating lamp voltage: 6, 12 and 24V DC (LED)/ 5, 12, 15 and 24V AC/DC (incandescent lamp).

Note 1: Certified lamp: LED, incandescent lamp.
2: Certified operating lamp voltage: 6, 12 and 24V DC (LED)/ 5, 12, 15 and 24V AC/DC (incandescent lamp).

AM22/DM22 Series

a. Pushbutton switches

Bezel	Operator	Type AM22	
		Momentary action	Alternate action (Turn-reset for V5R)
Round bezel	Flush round head	AM22F0R	AM22F5R
	Extended round head	AM22E0R	AM22E5R
	Extended with full guard (24mm dia.)	AM22G3R	AM22G8R
	Mushroom head with full guard (40mm dia.)	AM22M3R	AM22M8R
	Mushroom head (29mm dia.)	AM22M4R	_
	Mushroom head (40mm dia.)	AM22M0R	AM22M5R
Certificate No.		2003010305063372	

Note: Certified contact: within 4 contacts (1NO, 1NC, 1NO+1NC, 2NO, 2NC, 3NO, 3NC, 2NO+2NC, 4NO, 4NC)

b. Illuminated pushbutton switches

Bezel	Operator	Туре	
		AM22	
		Momentary	Alternate
Round bezel	Flush round head	AM22F0L	AM22F5L
	Extended round head	AM22E0L	AM22E5L
	Mushroom head (29mm dia.)	AM22M4L	AM22M9L
	Mushroom head (40mm dia.)	AM22M0L	AM22M5L
	Extended with transparent full guard	AM22G4L	AM22G9L
	(24mm dia.)		
	Extended with full guard	AM22G2L	AM22G7L
	(24mm dia. with openings)		
Certificate No.		2003010305063372	
(1NO, 1NC, 1NO+1NC, 2NO, 2NO With transformer: within 2 contacts (1 Color of button Green, red, white, yellow, orange, blu Light source LED lamp, incandescent lamp Operating voltage of lamp Without transformer LED: 6V AC, 6V DC, 12V AC/DC Incandescent lamp: 5.5V AC/DC, LED, incandescent lamp: 15V AC With transformer LED, incandescent lamp: 15V AC With transformer LED, incandescent lamp: 100-111		Without transformer: within 3 contacts (1NO, 1NC, 1NO+1NC, 2NO, 2NC, 3N With transformer: within 2 contacts (1NO, Color of button Green, red, white, yellow, orange, blue Light source LED lamp, incandescent lamp Operating voltage of lamp Without transformer LED: 6V AC, 6V DC, 12V AC/DC Incandescent lamp: 5.5V AC/DC, 20V LED, incandescent lamp: 15V AC/DC, With transformer LED, incandescent lamp: 100-110V A	1NC, 1NO+1NC, 2NO, 2NC) AC/DC 24V AC/DC C, 115-127V AC, 200-220V AC, C, 350-380V AC, 400-440V AC,

c. Selector switches

Bezel	Operator	Туре	
		AM22	
		Standard type	Control type
Round bezel	Knob	AM22PR	AM22PCR
	Lever	AM22WR	AM22WCR
	Key	AM22JR	AM22JCR
Certificate No.		2003010305063372	

Note: Certified contact: within 4 contacts (1NO, 1NC, 1NO+1NC, 2NO, 2NC, 3NO, 3NC, 2NO+2NC, 4NO, 4NC)

d. Illuminated selector switches

Bezel	Operator	Туре
		AM22
		Standard type
Round bezel	Knob	AM22PL
Certificate No.		2003010305063372

- Note 1: Certified contact without transformer: within 3 contacts (1NO, 1NC, 1NO+1NC, 2NO, 2NC, 3NO, 3NC)
 2: Certified contact with transformer: within 2 contacts (1NO, 1NC, 1NO+1NC, 2NO, 2NC)
 3: Certified lamp: both LED and incandescent lamp

e. Pilot lights

or a most right.			
Bezel	Lens	Туре	
		DM22	
Round bezel	Dome	DM22D0L	
	Extended round	DM22E3L	
	Faceted	DM22K0L	
Certificate No.		2003010305063383	

- Note 1: Certified lamp: both LED and incandescent lamp 2: Certified transformer type: standard and short-body 3: Except for with resistor unit

f. Item with degree of protection IP2X (IP20)

Туре	Certificate No.
AM22□ZB	2003010305063372
DM22□ZB	2003010305063383

Note: Certified for all types listed in the above items except for short-body transformer of pilot light

AG28, DG28 series

a. Pushbutton switches

Bezel	Operator	Type	
		Momentary	Alternate
Square bezel	Flush head	AG28F0S	AG28F5S
	Full guard	AG28G2S	AG28G7S
Certificate No.		2003010305063	372

Note: Certified contact: within 4 contacts (1NO, 1NC, 1NO+1NC, 2NO, 2NC, 3NO, 3NC, 2NO+2NC, 4NO, 4NC)

b. Ring selection type pushbutton switches

Bezel	Operator	Type
Square and	Ring selection type	AG28S2Y
Round bezel		AG28S6Y
Certificate No.		2003010305063372

Note: Certified contact: 2NO, 2NO+2NC

c. Illuminated pushbutton switches

Bezel	Operator	Туре	
		Momentary	Alternate
Square bezel	Flush head	AG28F0M	AG28F5M
	Full guard	AG28G2M	AG28G7M
Certificate No.		20030103050633	372
Specifications		(1NO, 1NC, 1NC 3NO, 3NC) With transformer: v (1NO, 1NC, 1NC Color of button Green, red, white, Light source LED lamp, incande Operating voltage o Without transforme LED: 6V AC, 6V	p+1NC, 2NO, 2NC) yellow, orange, blue sescent lamp f lamp er DC, 12V AC/DC mp: 5.5V AC/DC, ent lamp: r/AC/DC ent lamp: 15-127V AC, 30-254V AC, 00-440V AC,

d. Selector switches

Bezel	Operator	Туре	
		Standard type	Control type
Square and round bezel	Knob	AG28PY	AG28PCY
Certificate No.		20030103050633	372

Note: Certified contact: within 4 contacts (1NO, 1NC, 1NO+1NC, 2NO, 2NC, 3NO, 3NC, 2NO+2NC, 4NO, 4NC)

e. Illuminated selector switches

Bezel	Operator	Type	
		Standard type	
Square and round bezel	Knob	AG28PP	
Certificate No.		2003010305063372	

et: Certified contact without transformer: within 3 contacts (1NO, 1NC, 1NO+1NC, 2NO, 2NC, 3NO, 3NC)
2: Certified contact with transformer: within 2 contacts (1NO, 1NC, 1NO+1NC, 2NO, 2NC)
3: Certified lamp: both LED and incandescent lamp Note1:

f. Pilot lights

Bezel	Lens	Type	
Square bezel	Flush	DG28F3M	
Certificate No.		2003010305063383	

Note: Certified lamp: both LED and incandescent lamp

g. Item with terminal supporting IP2X

Type	Certificate No.
AG28□ZB	2003010305063372
DG28□ZB	2003010305063383

Note: Certified for all types listed in the above items

(8) Circuit Protectors

CP-F series

Operating	Туре			Certificate No.
characteristic	1-pole item	2-pole item	3-pole item	
Momentary type	OP31FI	CP32FI	CP33FI	2003010309067080
Middle-speed	CP31FM	CP32FM	CP33FM	
type				
Low-speed type	CP31FS	CP32FS	CP33FS	

Note1: Certified accessories (with auxiliary switch, alarm switch): all in manufactured range

CP-T series

Operating	Туре			Certificate No.
characteristic	1-pole item	2-pole item	3-pole item	
Momentary type	OP31TI	CP32TI	CP33TI	2003010309067080
Middle-speed	CP31TM	CP32TM	CP33TM	
type				
Low-speed type	CP31TS	CP32TS	CP33TS	

Note1: Certified accessories (with auxiliary switch, alarm switch): all in manufactured

(9) Manual Motor Starters (MMS)

MMS

Frame	Standard breaking capacity	High breaking capacity		Certificate No.
	Adjustable	Adjustable	Instantaneous	
	thermal-	thermal-	trip type	
	magnetic trip	magnetic trip		
	type	type		
32A	BM3RSB			2003010307076338
		BM3RHB	BM3RHBK	2003010307076342
63A	BM3VSB	BM3VHB	BM3VHBK	2003010307076333

(10) Cam Switches

Operrator mechanism	Туре	Certificate No.
Manual reset	AK22-1M	2003010305063492
Automatic reset	AK22-1A	
Mixed reset	AK22-1C	

Note1: Certified contact configuration: all in manufactured range
2: Certified shape and color of handle: all in manufactured range
3: Certified key type and key removal position: all in manufactured range

^{2:} The type with delay unit is also certified.

^{2:} Types for both AC circuit and DC circuit are certified.

6.8. Related Information for CCC

- (1) Product Quality Law (中华人民共和国产品质量法)
- a. What is Product Quality Law?
- 1. Enforced on September 1, 1993
- 2. To cover all the products distributed and sold in the People's Republic of China (Article 2)
- 3. Sampling inspection is carried out in the market. Products ready for sale either in the market or in companies' products warehouses shall be subject to sampling inspection. (Article 15)
- 4. This law has penalty clauses requiring suspension of production and sales or imposing fines. (Articles 49 to 72)

b. What are required by Product Quality Law? (Responsibilities and duties of manufacturers and sellers for their products quality)

- 1. Conformity with Chinese Standards about quality. (Article 26)
- 2. Marking in Chinese on products or packages. (Article 27)
 - · Certificate of successful product quality inspection
 - · Product name, factory name, factory address
 - · Instruction manual
 - · Notes (Warning indication, etc.)

Sample of a certificate of successful product quality inspection

合格证



产品名称: 交流接触器符合标准: IEC 60947

GB 14048.4 JIS C 8201

本产品经检验合格准予出厂

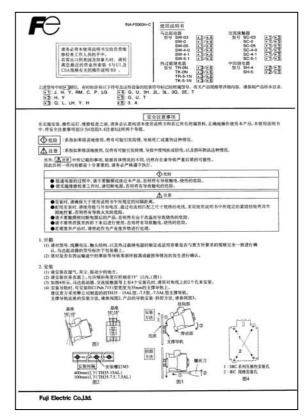
销售方

富士电机机器制御株式会社

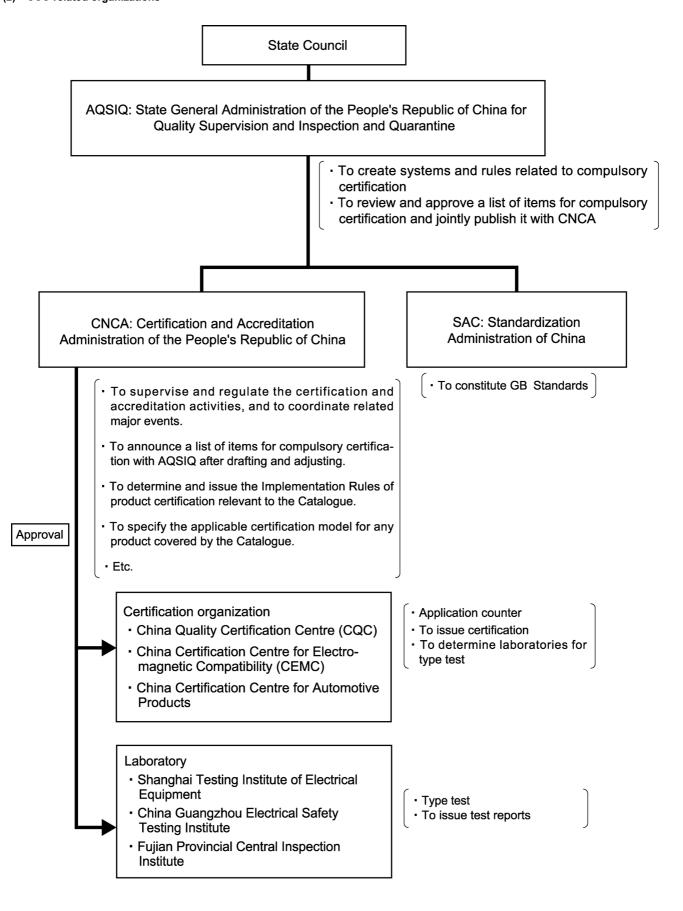
日本国东京都品川区大崎 1 丁目 11 番 2 号 Gate City 大崎 East Tower

生产厂地址 日本国琦玉县北足立郡吹上町 南1丁目5番45号

Sample of an instruction manual in Chinese

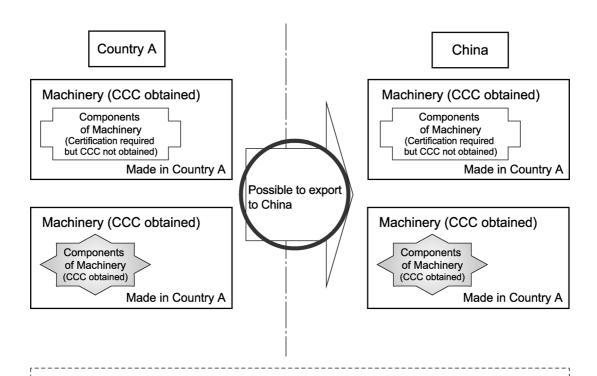


(2) CCC-related organizations



(3) In case of exporting machinery from country A to China (Relations between FUJI products and machinery)

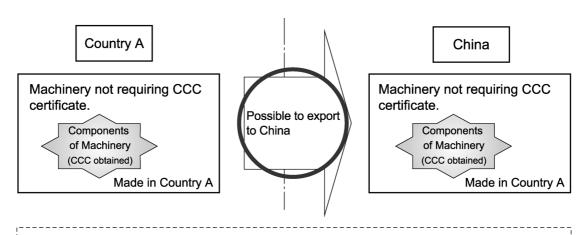
a. Exporting machinery from Country A to China (in case such machinery requires CCC)



- ♦ If the machinery itself requires certification (farming machines and welding machines are included in the Product catalogue*1), the machinery certification must be obtained. If the machinery certification has been obtained, the machinery can be exported to China even when Fuji's products used as its components have not been certified (though they require certification as individual products).
 - If certified Fuji's products are used in the machinery at the time of application for machinery certification, however, that portion is exempted from the test, resulting in shortening of the period for obtaining the certification.
 - It is, therefore, recommended to use certified products (if such products require certification) as components of the machinery applied for certification.

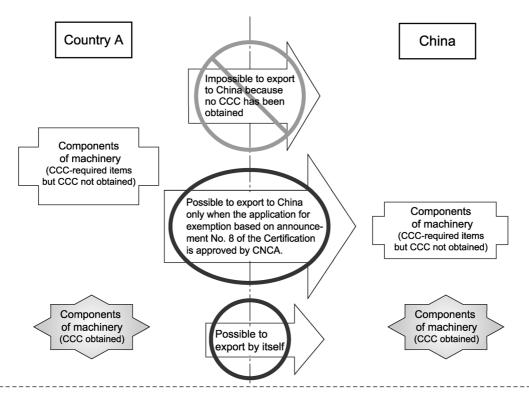
^{*1:}Refer to "Implementation Rules for compulsory products certification" published by CNCA for further details of the farming and welding machines.

Exporting machinery from Country A to China
 (in case such machinery does not require CCC certification. example: machine tools, semiconductor manufacturing equipment, elevators, etc.)



♦ It is recommended to use certified Fuji's products as components of the machinery even when the machinery itself does not require CCC certification. This is recommended according to the principle of the certification system that expects use of certified components when they individually require certification.

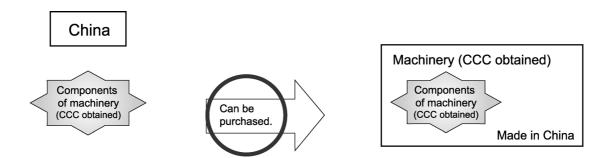
c. Exporting components (FUJI's products) for machinery from Country A to China (example: spare parts, etc.)



♦ It is not possible to export individual FUJI's products to China unless they have obtained Certification.

However, it is possible to export from country A to China only when the application for exemption based on announcement No. 8 of the Certification is approved by CNCA.

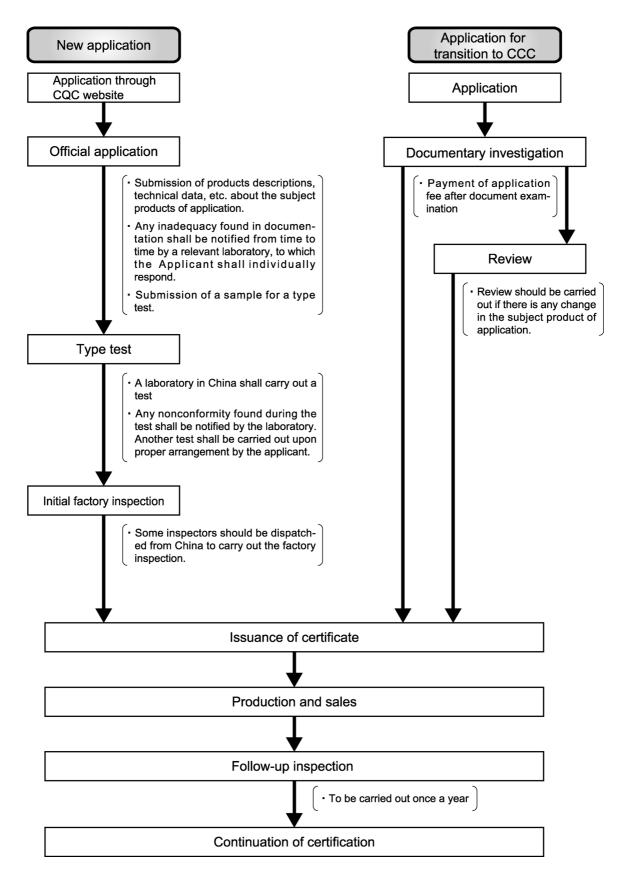
(4) In the case of purchasing FUJI's products for use in machinery in China



♦To purchase parts for machinery in China, you must purchase certified products. However, you can use them only when your application for an exemption according to announcement No. 8 of the certification is approved by the CNCA.

(5) Procedures from application to acquisition and maintenance of Certification

(New application, application for transition to CCC)



(6) Homepage addresses of CCC-related organizations

State General Administration of the People's Republic of China for Quality Supervision and Inspection and Quarantine (AQSIQ)

http://www.aqsiq.gov.cn/cms/template/index.html

Certification and Accreditation Administration of the People's Republic of China (CNCA)

http://www.cnca.gov.cn/

China Export Import Quality and Quantity Certification Centre (CQC)

http://www.cqc.com.cn/

Shanghai Testing Institute of Electrical Equipment

http://www.tilva.com/

(page providing boards-related information)

http://www.tilva.com/ccc.htm

For application for an exemption, refer to the following CNCA website.

http://www.cnca.gov.cn/cl.htm

http://www.cnca.gov.cn/cx.doc