

Magnetic contactors FC series

■ **Description**

FUJI FC series contactors are designed for use in consumer products and light industrial machinery and equipment. They are recommended for applications which call for economy, easy handling and reliability. Typical applications include air conditioners, show cases, industrial washing machines, heaters, pumps, fans, compressors, dryers and vending machines. They are available in sizes ranging from FC-0UL to 4UL and up to 30kW at 440 Volts AC.

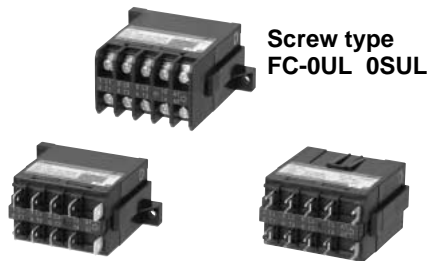
■ **Features**

- Small size, light weight
- Budget priced
- Long service life
Electrical life expectancy: 250,000 operations. Good for 7 years service if they are operated 100 times a day.
- Scrubbing action
The contacts are self-cleaning by a scrubbing action during operation and are made of a silver alloy.
- Highly reliable operating coil
Pick-up voltage
75% of rated voltage
- Self-lifting terminals
Easy to wire

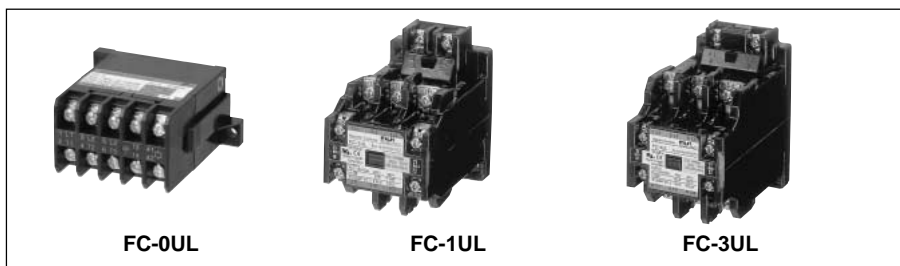
■ **Construction**

FC-0UL, 0SUL

- Their small size permits them to be mounted in positions where space is limited and they can be mounted in a variety of directions.
- The standard terminals are screw-type. Printed board type and tab terminals are also available.



Tab terminal type **FC-0TUL** Printed board type **FC-0A**



- The contact section is housed inside the molded frame and is totally enclosed. The dust-tight construction keeps contact performance at a high level and results in a long trouble-free service life.

■ **Ordering information**

Specify the following:

1. Ordering code
2. Operating coil voltage code
3. Auxiliary contact arrangement:
In the case of type FC-0UL, 0A and 0TUL, specify the contact arrangement.

FC-1UL to 4UL

- FUJI self-lifting terminals make connection work simple.
- Their free floating design results in quiet operation and eliminates chattering and bouncing.
- The magnetic yokes have been given a rust preventing treatment.
- Coil power consumption is low.

■ **Types and ratings (IEC60947-4-1)**

Motor capacity (kW) AC-3 3-phase	Operational current (A) AC-3 3-phase		Operational current (A) AC-1 *2	Auxiliary contact		Non-reversing Open	
	200V 240V	380V 440V		NO	NC	Type	Ordering code
3	2.5	12	6	20	1	—	FC-0UL SF12B1A-■10
3	2.5	12	6	20	—	1	FC-0UL SF12B1A-■01
3.5	4.5	15	10	20	1	—	FC-0SUL SF15B1A-■10
3.5	4.5	15	10	20	—	1	FC-0SUL SF15B1A-■01
5.5	5.5	20	13	30	1	1*1	FC-1UL SF20B1A-■11
7.5	7.5	27	18	30	1	1*1	FC-1SUL SF26B1A-■11
11	11	40	26	45	1	1*1	FC-2SUL SF38B1A-■11
15	18.5	52	40	60	1	1*1	FC-3UL SF50B1A-■11
18.5	30	65	65	80	1	1*1	FC-4UL SF65B1A-■11
1.5	—	8	—	8	1	—	FC-0A SF08BBA-■10
1.5	—	8	—	8	—	1	FC-0A SF08BBA-■01
3	2.5	12	6	20	1	—	FC-0TUL SF12B3A-■10
3	2.5	12	6	20	—	1	FC-0TUL SF12B3A-■01
3.5	4.5	15	10	20	1	—	FC-0STUL SF15B3A-■10
3.5	4.5	15	10	20	—	1	FC-0STUL SF15B3A-■01
3	2.5	12	6	20	1	—	FC-0/GUL SF12B1G-■10
3	2.5	12	6	20	—	1	FC-0/GUL SF12B1G-■01
3.5	4.5	15	10	20	1	—	FC-0S/GUL SF15B1G-■10
3.5	4.5	15	10	20	—	1	FC-0S/GUL SF15B1G-■01
3	2.5	12	6	20	1	—	FC-0T/GUL SF12B3G-■10
3	2.5	12	6	20	—	1	FC-0T/GUL SF12B3G-■01
3.5	4.5	15	10	20	1	—	FC-0ST/GUL SF15B3G-■10
3.5	4.5	15	10	20	—	1	FC-0ST/GUL SF15B3G-■01
1.5	—	8	—	8	1	—	FC-0A/G SF08BBG-■10
1.5	—	8	—	8	—	1	FC-0A/G SF08BBG-■01

Notes: *1 Auxiliary contact arrangement 2NO or 2NC is available.

Cable connection: FC-0A: P. C. board
FC-0TUL, 0STUL: With flat connection tabs
Other types: With screw-type terminals

*2 Thermal current (A)

■: Coil voltage code, see page 01/82.

Magnetic Contactors and Starters

FC and FW series

■ Ordering code system

● Contactor

S F 3 5 B 1 A — E 2 2
 ① ② ③ ④ ⑤ ⑥ ⑧ ⑨ ⑩

① Product category

Description	Code
Contactors and starters	S

② Series category

Description	Code
F series	F

③④ Frame size

Frame size	Code	
	③	④
0, 0T	1	2
0A	0	8
0S, 0ST	1	5
1	2	0
1S	2	6
2S	3	5
3	5	0
4	6	5

⑤ Version

Description	Code
<u>Non-reversing, open</u>	
Contactors	
Standard	1
With tab terminal	T
Starters	
Standard	A
<u>Non-reversing, enclosed</u>	
Standard	C
With ON-OFF pushbutton (plastic enclosure)	P
With ON-OFF pushbutton (steel enclosure)	S
With ON-OFF pushbutton and lamp (plastic enclosure)	K

⑥ Coil specification

Description	Code
AC operating coil	A
DC operating coil	G

⑦ Type of thermal overload relay

Description	No. of element	Code
Standard	2, 3	N
Quick operating	3	S
Open-phase protection	3	E

● Starter

S F 3 5 B A A N — E 2 2 T B D
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

⑧ Coil voltage

Operating coil voltage		Code
50Hz	60Hz	
24V	24 — 26V	E
48V	48 — 52V	F
100V	100 — 110V	1
100 — 110V	110 — 120V	H
110 — 120V	120 — 130V	K
200V	200 — 220V	2
200 — 220V	220 — 240V	M
220 — 240V	240 — 260V	P
346 — 380V	380 — 420V	S
380 — 400V	400 — 440V	4
415 — 440V	440 — 480V	T

● DC coil

Operating coil voltage	Code
24V DC	E
48V DC	F
60V DC	G
100V DC	1
110V DC	H
200V DC	2
220V DC	M

⑩ Thermal overload relay ampere setting range

Ampere setting range (A)	Code	Ampere setting range (A)	Code	Ampere setting range (A)	Code
0.1 — 0.15	TA	1.4 — 2.2	TM	7 — 11	TV
0.15 — 0.24	TC	1.7 — 2.6	TN	8 — 16	TV
0.24 — 0.36	TE	2.2 — 3.4	TP	9 — 13	TW
0.36 — 0.54	TG			12 — 18	TX
				13 — 20	TA* ¹
				18 — 26	TB
				20 — 26	TC* ²
0.48 — 0.72	TH	2.8 — 4.2	TR	24 — 36	TE
0.64 — 0.96	TJ	4 — 6	TS	28 — 40	TF
0.8 — 1.2	TK	5 — 8	TT	34 — 50	TG
0.95 — 1.45	TL	6 — 9	TU	45 — 67	TJ

Note: *¹ For FW-1S: X

*² For FW-1S: Y

⑫ No. of heater element

Description	Code
2-element	Blank
3-element	D

⑨⑩ Auxiliary contact

Frame size 0 to 4

Contact arrangement	Code	
	⑨	⑩
1NO	1	0
1NC	0	1
2NO	2	0
1NO + 1NC	1	1
2NC	0	2

