

# AC CONTACTORS IN DC CIRCUITS

## DC APPLICATIONS OF MAGNETIC CONTACTORS

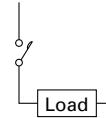
### DESCRIPTION

FUJI magnetic contactors in the SC series are normally used in AC circuit applications. However, they may also be used in DC circuits, and in this case their contacts must be connected in series as shown in the diagram.

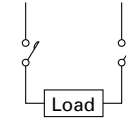
When used in this manner they will be found to be more economical than using contactors exclusively designed for DC applications. Coils are available for both AC and DC. if the following ratings are observed the equipment will have an electrical service life expectancy of 500,000 operations.

### WIRING CONNECTION

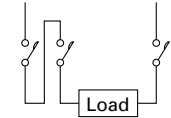
Contactors must be connected in series when the contactors are used in DC applications.



Series Contact 1



Series Contact 2



Series Contact 3

### RATINGS

Frame Size	No. of Contacts Connected in Series	Rated Operational Current (A)							
		Resistive L/R ≤ 1ms.				DC MOTOR, L/R ≤ 15ms.			
		24V	48V	110V	220V	24V	48V	110V	220V
0A	1	13	13	10	1.2	6	3	2	0.35
	2	13	13	10	6	12	6	4	1.2
	3	15	15	15	15	15	10	8	4
0F	1	13	13	10	1.2	6	3	2	0.35
	2	13	13	10	6	12	6	4	1.2
	3	15	15	15	15	15	10	8	4
0G	1	13	13	10	1.2	6	3	2	0.35
	2	13	13	10	6	12	6	4	1.2
	3	15	15	15	15	15	10	8	4
0Q	1	16	13	10	1.5	8	6	2	0.35
	2	16	16	12	8	16	12	6	1.5
	3	18	18	18	15	18	18	12	6
0R	1	20	15	12	2	10	8	3	0.35
	2	20	20	15	10	20	15	8	2
	3	22	22	20	15	22	22	15	8
0H	1	20	15	12	2	10	8	3	0.35
	2	20	20	15	10	20	15	8	2
	3	22	22	20	15	22	22	15	8
0T	1	25	25	15	2	15	8	3	0.35
	2	25	25	25	20	25	15	8	2
	3	35	35	30	25	35	25	20	8
1Q	1	30	30	20	2	20	15	4	0.35
	2	30	30	30	20	30	20	15	3
	3	45	45	40	35	35	30	30	8
2F	2	60	60	40	20	60	30	20	3.5
	3	60	60	60	40	60	60	60	13
2H	2	80	80	50	20	80	40	20	4
	3	80	80	80	60	80	80	80	20
2T	2	80	80	50	20	80	40	20	4
	3	80	80	80	60	80	80	80	20
3F	2	120	120	80	40	120	80	40	15
	3	120	120	120	120	120	120	120	80
3H	2	120	120	80	40	120	80	40	15
	3	120	120	120	120	120	120	120	80
4F	2	160	160	100	80	160	120	80	40
	3	160	160	160	160	160	160	160	160
4Q	2	200	200	160	160	200	160	120	60
	3	200	200	200	200	200	200	200	200
4H	2	200	200	160	160	200	160	120	60
	3	200	200	200	200	200	200	200	200
5F	2	300	300	200	200	300	200	160	80
	3	300	300	300	300	300	300	300	300
5H	2	400	400	330	300	400	300	200	100
	3	400	400	400	400	400	400	400	400

These values represent usage in accordance with IEC specifications and are not recognized by UL508.