

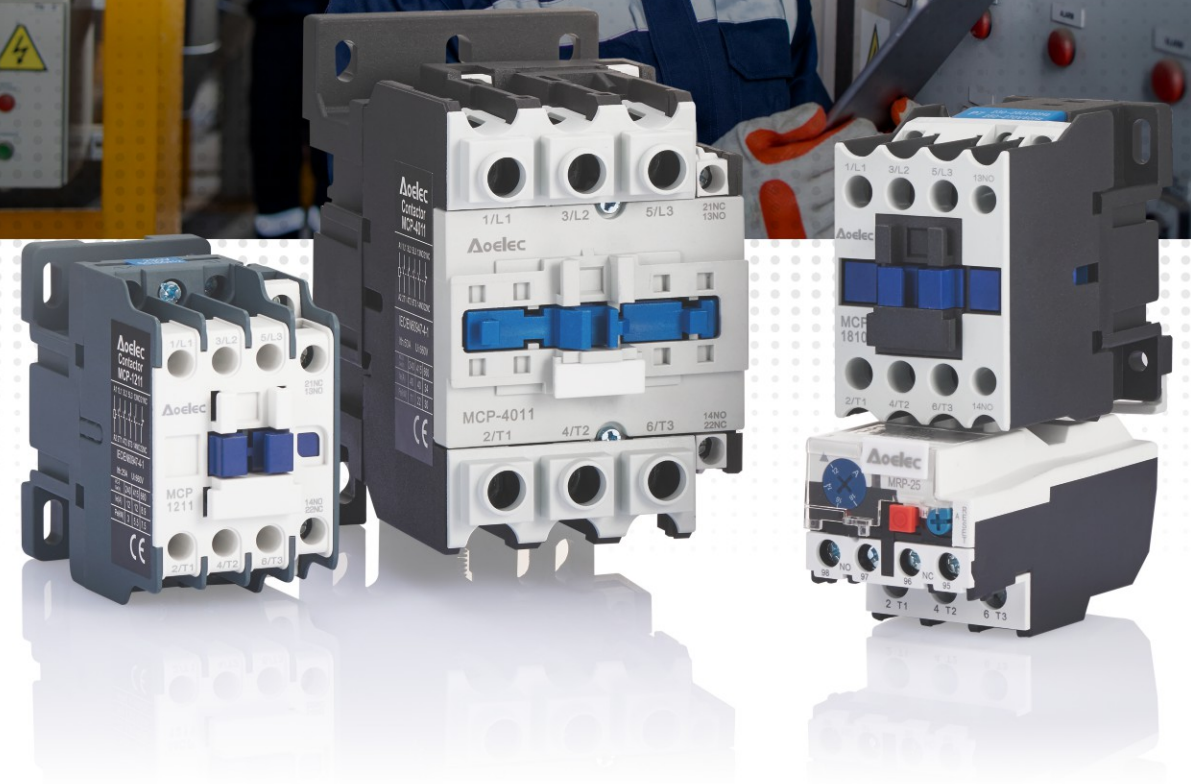
Assembly with thermal over-load relay

Model of Contactor	Model	Assembled thermal over-load relay		
		Rated current(A)	Recommended fuse type	
			aM	gG
MCP-09 MCP-12 MCP-18 MCP-25 MCP-32	 MRP-25	0.1~0.16	0.25	2
		0.16~0.25	0.5	2
		0.25~0.4	1	2
		0.4~0.63	1	2
		0.63~1	2	4
		1~1.6	2	4
		1.25~2	4	6
		1.6~2.5	4	6
		2.5~4	6	10
		4~6	8	16
		5.5~8	12	20
		7~10	12	20
		9~13	16	25
		12~18	20	35
		17~25	25	50
MCP-32	 MRP-36	23~32	40	63
		28~36	40	80
MCP-40 MCP-50 MCP-65 MCP-80 MCP-95	 MRP-93	23~32	40	63
		30~40	40	100
		37~50	63	100
		48~65	63	100
		55~70	80	125
		63~80	80	125
		80~93	100	160

AC CONTACTOR

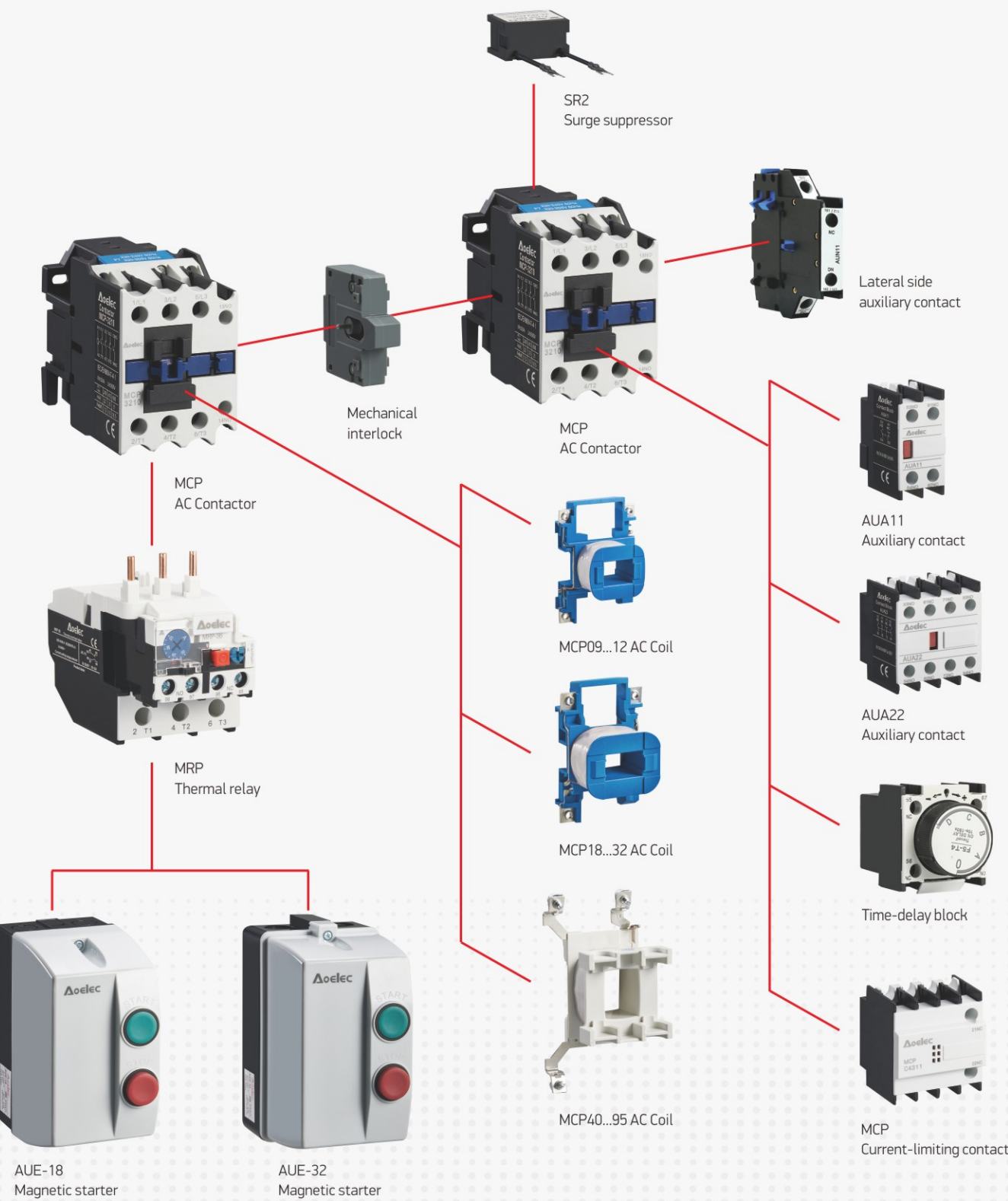
START EASILY

PROTECT PRECISELY





MCP Series Contactor



MCP CONTACTOR

ELECTRICAL SECTOR SOLUTIONS



Design Compliant with International Standards
Standard Compliance: IEC/EN 60947-4-1 ensuring global applicability and reliability.



Wide Voltage Range
Diverse coil control voltage options (AC, e.g., 24V, 110V, 220V, 380V) to suit different control systems.



High Breaking Capacity
Features high making and breaking capacity, enabling reliable interruption of normal load and specified overload currents.



Low-Power Consumption Coil
Energy-efficient design with low holding power, minimal heat generation during prolonged operation, saving energy and extending service life.



Easy Installation and Use
Modular Accessories: Can be flexibly equipped with auxiliary contact blocks (NO/NC), mechanical interlocks (for reversing applications), pneumatic timers (for delayed operation),



Wide Range of Applications
Primarily used for the remote control of starting, stopping, and reversing; Heating equipment, Welding machines, Capacitor, Small power generation equipment, etc.

MCP Series Contactor



General

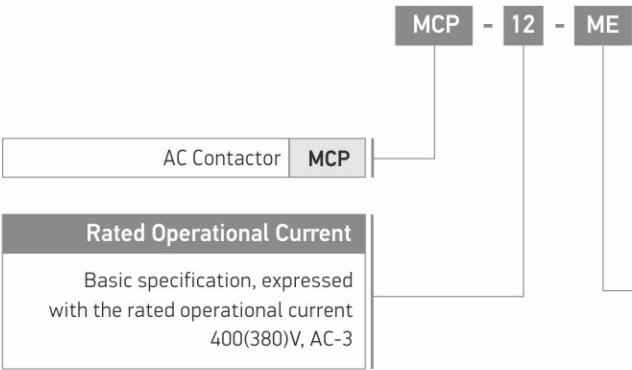
- Application: remote making & breaking circuits; protect circuit from over-load when assembling with thermal over-load relay; Frequent start-up and control of AC contactor;
- Electric ratings: AC50/60Hz, 690V, up to 95A;
- Utilization category: AC-3, AC-4;
- Altitude: ≤2000m;
- Ambient temperature: -5°C~+40°C;
- Mounting category: III
- Mounting conditions: inclination between the mounting plane and the vertical plane should not exceed ±5°
- Standard: IEC/EN 60947-4-1

IEC/EN 60947-4-1

Approval / Marking

CE CB RoHS

Product Code System & Explannations



Number of contacts	
10	3 N/O main contacts+1 N/O auxiliary contact (9A,12A,18A,25A,32A)
01	3 N/O main contacts+1 N/C auxiliary contact (9A,12A,18A,25A,32A)
11	3 N/O main contacts+1 N/O and 1N/C auxiliary contact(40A,50A,65A,80A,95A)
04	4 N/O main contacts (9A,12A,25A,40A,50A,65A,80A,95A)
08	2 N/O and 2N/C main contacts (9A,12A,25A,40A,50A,65A,80A,95A)

MCP Series Contactor

The correction factors for different rated operation current under operation temperature higher than +40°C are given in the following table. The rated operation voltage remains unchanged.

Ambient temperature (°C)	40	50	60	70
Correction factor	1	0.875	0.75	0.625

AC coil operation, reversing type

Mode			MCP-09	MCP-12	MCP-18	MCP-25	MCP-32	MCP-40	MCP-50	MCP-65	MCP-80	MCP-95
Number of Poles			3P,4P	3P,4P	3P	3P,4P	3P	3P,4P	3P,4P	3P,4P	3P,4P	3P,4P
Rated conventional heating current(A)AC-1			25	25	32	45	50	60	80	80	110(Can be customized for 125)	
AC-4	Ie(A)	380/400V	3.5	5	7.7	8.5	12	18.5	24	28	37	44
		660/690V	1.5	2	3.8	4.4	7.5	9	12	14	17.3	21.3
	Pe(kW)	380/400V	1.5	2.2	3	4	5.5	7.5	11	15	18.5	22
		660/690V	1.1	1.5	3.7	4	5.5	7.5	11	11	15	18.5
Power of controlled 3-phase cage motor (AC-3)	hp	200V	3	5	7.5	7.5	10	15	15	20	25	30
		240V	3	5	7.5	10	15	20	20	25	30	30
		460V	5	7.5	10	15	20	25	30	40	40	50
		600V	5	7.5	10	15	20	25	30	40	40	50

AC coil operation, change-over type

Mode			MCP-09	MCP-12	MCP-25	MCP-40	MCP-50	MCP-65	MCP-80	MCP-95
Number of Poles			4P	4P	4P	4P	4P	4P	4P	4P
Rated conventional heating current(A)AC-1			25	25	45	60	80	80	110(Can be customized for 125)	
AC-4	Ie(A)	380/400V	3.5	5	8.5	18.5	24	28	37	44
		660/690V	1.5	2	4.4	9	12	14	17.3	21.3
	Pe(kW)	380/400V	1.5	2.2	4	7.5	11	15	18.5	22
		660/690V	1.1	1.5	4	7.5	11	11	15	18.5
Power of controlled 3-phase cage motor (AC-3)	hp	200V	3	5	7.5	15	15	20	25	30
		240V	3	5	10	20	20	25	30	30
		460V	5	7.5	15	25	30	40	40	50
		600V	5	7.5	15	25	30	40	40	50

MCP Series Contactor

Product Name	MCP-0910	MCP-1210	MCP-1810	MCP-2510	MCP-3210	MCP-4011	MCP-5011	MCP-6511	MCP-8011	MCP-9511
Number of Poles	3P, 4P	3P, 4P	3P	3P, 4P	3P	3P, 4P	3P, 4P	3P, 4P	3P, 4P	3P, 4P
										

Technical Data																						
Rated operational current (A)	380V	AC-3	9	12	18	25	32	40	50	65	80	95										
		AC-4	3.5	5	7.7	8.5	12	18.5	24	28	37	44										
	660V	AC-3	6.6	8.9	12	18	21	34	39	42	49	49										
		AC-4	1.5	2	3.8	4.4	7.5	9	12	14	17.3	21.3										
Conventional thermal current (Ith)		A	20	25	32	40	50	60	70	80	110	125										
Rated insulation voltage (Ui)		V	690	690	690	690	690	690	690	690	690	690										
Power of controlled 3-phase cage motor(AC-3)		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										
Operational frequency (Operations/h)	Electrical	AC-3	1200	1200	1200	1200	600	600	600	600	600	600										
		AC-4	300	300	300	300	300	300	300	300	300	300										
	Mechanical		3600	3600	3600	3600	3600	3600	3600	3600	3600	3600										
Electrical life (×10 ⁴ operations)		AC-3	100	100	100	100	80	80	60	60	60	60										
		AC-4	20	20	20	20	20	15	15	15	10	10										
Mechanical life (×10 ⁴ operations)			1000	1000	1000	1000	800	800	800	800	600	600										
Matched fuse type			RT16-20		-		RT16-32		RT16-40		RT15-50		RT16-63		RT16-80		-		RT16-100		RT16-125	
Terminals	Number of piece		1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
	Flexible cable without cable end	mm ²	1/2.5	1/2.5	1/2.5	1/2.5	1.5/4	1.5/4	1.5/4	1.5/4	2.5/6	2.5/6	6/25	4/10	6/25	4/10	6/25	4/10	10/35	6/16	10/35	6/16
	Flexible cable with cable end	mm ²	1/4	1/4	1/4	1/2.5	1.5/6	1.5/4	1.5/10	1.5/6	2.5/10	2.5/6	6/25	4/10	6/25	4/10	6/25	4/10	10/35	6/16	10/35	6/16
	Inflexible cable	mm ²	1/4	1/4	1/4	1/4	1.5/6	1.5/6	1.5/6	1.5/6	2.5/10	2.5/10	6/25	4/10	6/25	4/10	6/25	4/10	10/35	6/16	10/35	6/16
AC coil power 50Hz	In-rush	VA	70	70	70	110	110	200	200	200	200	200										
	Sealed	VA	9.0	9.0	9.5	14.0	14.0	57.0	57.0	57.0	57.0	57.0										
	Power	W	1.8-2.7	1.8-2.7	3-4	3-4	3-4	6~10	6~10	6~10	6~10	6~10										
Operating range			Operation voltage: 85%~110%Us, Drop-out voltage: 20%Us~75Us										Operation voltage: 85%~110%Us, Drop-out voltage: 20%Us~75Us									
Auxiliary contact			AC-15: 360VA DC-13:33W Ith:10A										AC-15: 360VA DC-13:33W Ith:10A									

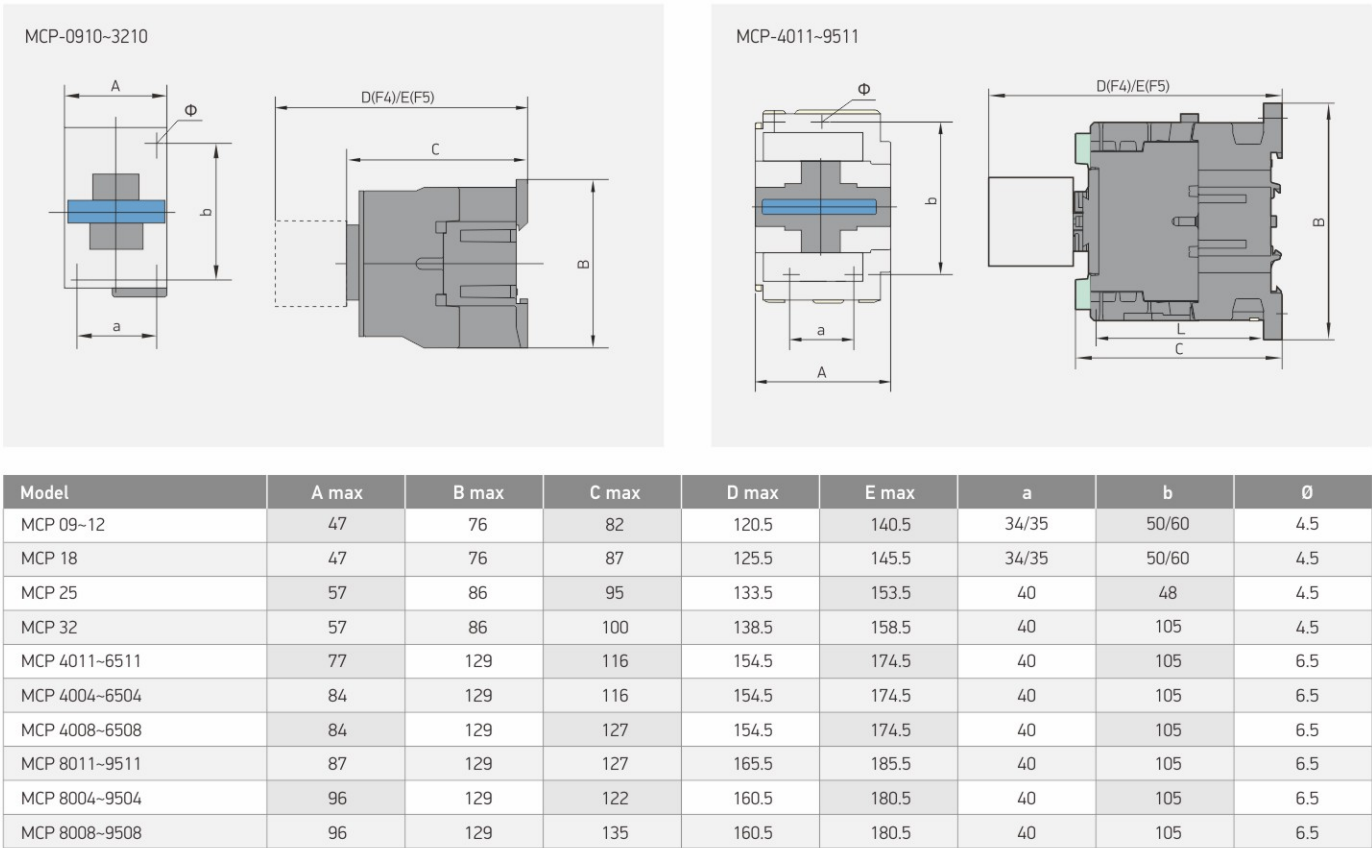
MCP Series Dust proof Contactor

Product Name	MCP-0911	MCP-1211	MCP-1811	MCP-2511	MCP-3211	MCP-4011	MCP-5011	MCP-6511	MCP-8011	MCP-9511
Number of Poles	3P	3P	3P	3P	3P	3P	3P	3P	3P	3P
										

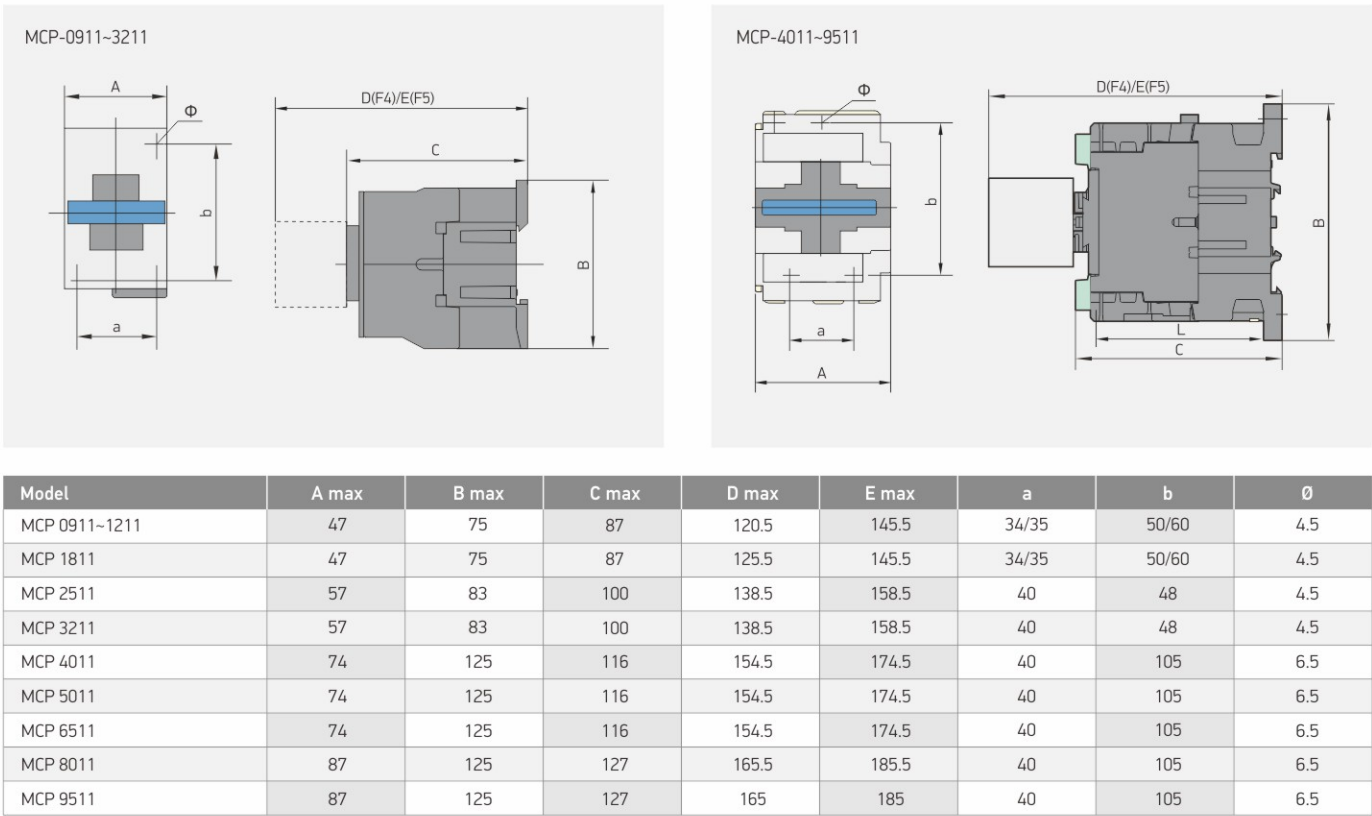
Technical Data																						
Rated operational current (A)	380V	AC-3	9	12	18	25	32	40	50	65	80	95										
		AC-4	3.5	5	7.7	8.5	12	18.5	24	28	37	44										
	660V	AC-3	6.6	8.9	12	18	21	34	39	42	49	49										
		AC-4	1.5	2	3.8	4.4	7.5	9	12	14	17.3	21.3										
Conventional thermal current (Ith)		A	20	25	32	40	50	60	70	80	110	125										
Rated insulation voltage (Ui)		V	690	690	690	690	690	690	690	690	690	690										
Power of controlled 3-phase cage motor(AC-3)		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										
Operational frequency (Operations/h)	Electrical	AC-3	1200	1200	1200	1200	600	600	600	600	600	600										
		AC-4	300	300	300	300	300	300	300	300	300	300										
	Mechanical		3600	3600	3600	3600	3600	3600	3600	3600	3600	3600										
Electrical life (×10 ⁴ operations)		AC-3	100	100	100	100	80	80	60	60	60	60										
		AC-4	20	20	20	20	20	15	15	15	10	10										
Mechanical life (×10 ⁴ operations)			1000	1000	1000	1000	800	800	800	800	600	600										
Matched fuse type			RT16-20		-		RT16-32		RT16-40		RT15-50		RT16-63		RT16-80		-		RT16-100		RT16-125	
Terminals	Number of piece		1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
	Flexible cable without cable end	mm ²	1/2.5	1/2.5	1/2.5	1/2.5	1.5/4	1.5/4	1.5/4	1.5/4	2.5/6	2.5/6	6/25	4/10	6/25	4/10	6/25	4/10	10/35	6/16	10/35	6/16
	Flexible cable with cable end	mm ²	1/4	1/4	1/4	1/2.5	1.5/6	1.5/4	1.5/10	1.5/6	2.5/10	2.5/6	6/25	4/10	6/25	4/10	6/25	4/10	10/35	6/16	10/35	6/16
	Inflexible cable	mm ²	1/4	1/4	1/4	1/4	1.5/6	1.5/6	1.5/6	1.5/6	2.5/10	2.5/10	6/25	4/10	6/25	4/10	6/25	4/10	10/35	6/16	10/35	6/16
AC coil power 50Hz	In-rush	VA	70	70	70	110	110	200	200	200	200	200										
	Sealed	VA	9.0	9.0	9.5	14.0	14.0	57.0	57.0	57.0	57.0	57.0										
	Power	W	1.8-2.7	1.8-2.7	3-4	3-4	3-4	6~10	6~10	6~10	6~10	6~10										
Operating range			Operation voltage: 85%~110%Us, Drop-out voltage: 20%Us~75Us										Operation voltage: 85%~110%Us, Drop-out voltage: 20%Us~75Us									
Auxiliary contact			AC-15: 360VA DC-13:33W Ith:10A										AC-15: 360VA DC-13:33W Ith:10A									

Dimensions

MCP Series Contactor



MCP Series Dust proof Contactor



AC Contactor Accessories



Auxiliary contact

Model	Configuration of contacts	
	Number of N/O contact	Number of N/C contact
AUA20	2	0
AUA11	1	1
AUA02	0	2

Model	Configuration of contacts	
	Number of N/O contact	Number of N/C contact
AUA40	4	0
AUA31	3	1
AUA22	2	2
AUA13	1	3
AUA04	0	4

Lateral side auxiliary contact

Model	Configuration of contacts	
	Number of N/O contact	Number of N/C contact
AUN11	1	1

Time-delay block

Model	Time-delay range	Uumber of time-delay contacts
F5-T0	0.1s~3s	N/O+N/C
F5-T2	0.1s~30s	N/O+N/C
F5-T4	10s~180s	N/O+N/C
F5-D0	0.1s~3s	N/O+N/C
F5-D2	0.1s~30s	N/O+N/C
F5-D4	10s~180s	N/O+N/C

Surge suppressor

Model	Suppression voltage range		Note
	AC 24V~48V	SR2-A 24V ~ 48V	
SR2-A	AC 100V~250V	SR2-A 100V~250V	Able to be used for the products of 9A~38A or lower
	AC 380V ~440V	SR2-A 380V ~440V	
SR2-C	AC 24V~48V	SR2-C 24V ~48V	Able to be used for the products of 40A~95A or lower
	AC 100V~250V	SR2-C 100V~250V	
	AC 380V ~440V	SR2-C 380V~440V	