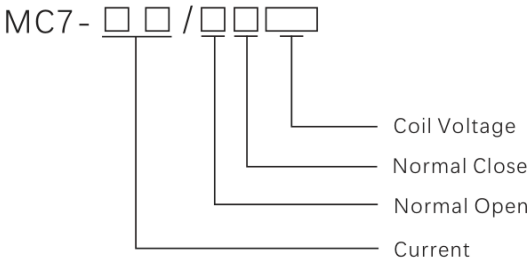
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Applicable scope

The MC7 modular contactor (hereinafter referred to as contactor) is mainly suitable for AC 50Hz (or 60Hz), rated working voltage to 400V and rated current operation in the circuit up to 63A, it can control the low-inductance and low-inductance load of household appliances and similar purposes; it can also be used to control the load of household motors. The power should be reduced accordingly.

The MC7 contactors according to standard IEC/EN61095 , IEC60947-4-1 and are used mainly in buildings for switching and controlling lighting, heating, ventilation and pumps. They are part of the complete range of Din rail products and can be integrated easily in dedicated panels.

Modular contactor



HUM FREE

(eg. MC7-25/20 230V . It is 25A , 2NO ,230V AC current coil voltage)

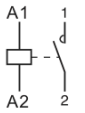
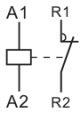


AC / DC 1P,1modules

Contactor Model	Ie Rating AC-7a AC-1	Ie Rating AC-7b AC-3	Uc	Circuit Diagram
MC7-16/10	16A	6A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	A1 1 A2 2
MC7-20/10	20A	7A		
MC7-25/10	25A	9A		
MC7-32/10	32A	12A		
MC7-16/01	16A	6A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	A1 R1 A2 R2
MC7-20/01	20A	7A		
MC7-25/01	25A	9A		
MC7-32/01	32A	12A		

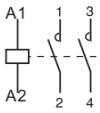
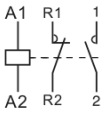
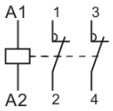


AC/DC 1P,2modules

Contactor Model	Ie Rating AC-7a AC-1	Ie Rating AC-7b AC-3	Uc	Circuit Diagram
MC7-40/10	40A	18A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
MC7-63/10	63A	25A		
MC7-40/01	40A	18A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
MC7-63/01	63A	25A		

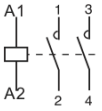
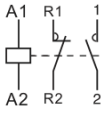
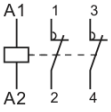


AC/DC 2P,1modules

Contactor Model	Ie Rating AC-7a AC-1	Ie Rating AC-7b AC-3	Uc	Circuit Diagram
MC7-16/20	16A	6A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
MC7-20/20	20A	7A		
MC7-25/20	25A	9A		
MC7-32/20	32A	12A		
MC7-16/11	16A	6A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
MC7-20/11	20A	7A		
MC7-25/11	25A	9A		
MC7-32/11	32A	12A		
MC7-16/02	16A	6A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
MC7-20/02	20A	7A		
MC7-25/02	25A	9A		
MC7-32/02	32A	12A		



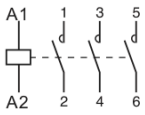
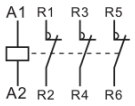
AC/DC 2P,2modules

Contactor Model	Ie Rating AC-7a AC-1	Ie Rating AC-7b AC-3	Uc	Circuit Diagram
MC7-40/20	40A	18A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
MC7-63/20	63A	25A		
MC7-40/11	40A	18A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
MC7-63/11	63A	25A		
MC7-40/02	40A	18A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
MC7-63/02	63A	25A		

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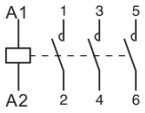
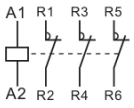


AC/DC 3P,2modules

Contactor Model	Ie Rating AC-7a AC-1	Ie Rating AC-7b AC-3	Uc	Circuit Diagram
MC7-16/30	16A	6A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
MC7-20/30	20A	7A		
MC7-25/30	25A	9A		
MC7-32/30	32A	12A		
MC7-16/03	16A	6A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
MC7-20/03	20A	7A		
MC7-25/03	25A	9A		
MC7-32/03	32A	12A		

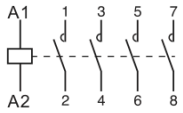
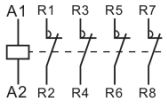
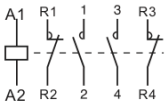
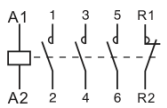


AC/DC 3P,3modules

Contactor Model	Ie Rating AC-7a AC-1	Ie Rating AC-7b AC-3	Uc	Circuit Diagram
MC7-40/30	40A	18A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
MC7-63/30	63A	25A		
MC7-40/03	40A	18A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
MC7-63/03	63A	25A		

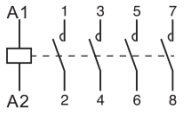
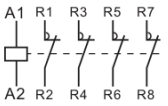
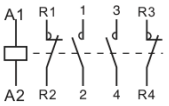
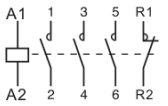


AC/DC 4P,2modules

Contactor Model	Ie Rating AC-7a AC-1	Ie Rating AC-7b AC-3	Uc	Circuit Diagram
MC7-16/40	16A	6A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
MC7-20/40	20A	7A		
MC7-25/40	25A	9A		
MC7-32/40	32A	12A		
MC7-16/04	16A	6A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
MC7-20/04	20A	7A		
MC7-25/04	25A	9A		
MC7-32/04	32A	12A		
MC7-16/22	16A	6A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
MC7-20/22	20A	7A		
MC7-25/22	25A	9A		
MC7-32/22	32A	12A		
MC7-16/31	16A	6A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
MC7-20/31	20A	7A		
MC7-25/31	25A	9A		
MC7-32/31	32A	12A		



AC/DC 4P,3modules

Contactor Model	Ie Rating AC-7a AC-1	Ie Rating AC-7b AC-3	Uc	Circuit Diagram
MC7-40/40	40A	18A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
MC7-63/40	63A	25A		
MC7-40/04	40A	18A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
MC7-63/04	63A	25A		
MC7-40/22	40A	18A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
MC7-63/22	63A	25A		
MC7-40/31	40A	18A	12V AC/DC 24V AC/DC 48V AC/DC 110V AC/DC 230V AC/DC	
MC7-63/31	63A	25A		

AC/DC Modular contactor power consumption

Poles	Ie Rating AC-7a	Ie Rating AC-7b	Uc (VAC)(50Hz)	Power consumption Hold on	Power consumption Pull in	Max Power
2P	16A	6A	230	2.1VA	2.1VA	2.0W
	20A	7A	230	2.1VA	2.1VA	2.0W
	25A	9A	230	2.1VA	2.1VA	2.0W
	32A	12A	230	2.1VA	2.1VA	2.0W
	40A	18A	230	2.3VA	2.3VA	2.0W
	63A	25A	230	2.3VA	2.3VA	2.0W
4P	16A	6A	230	2.3VA	2.3VA	2.0W
	20A	7A	230	2.3VA	2.3VA	2.0W
	25A	9A	230	2.3VA	2.3VA	2.0W
	32A	12A	230	2.3VA	2.3VA	2.0W
	40A	18A	230	6.0VA	6.0VA	5.5W
	63A	25A	230	6.0VA	6.0VA	5.5W

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Modular contactor auxiliary

Auxiliary Contacts

The Auxiliary contacts are indicator contactor contacts status switch OFF or ON

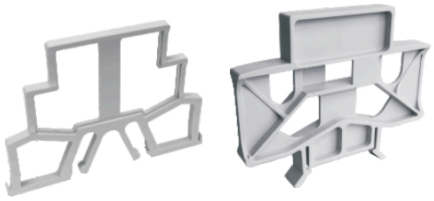
	AC–12		AC–15		DC–13		Rated Current	Circuit Diagram
	C.V.	C.A.	C.V.	C.A.	C.V.	C.A.		
MC7–AUC11	240V	5A	230V	2A	DC 130V	1A	5A	
MC7–AUC20	240V	5A	230V	2A	DC 130V	1A	5A	



Spacing piece

Spacers are used to reduce the temperature rise of devices mounted side by side. It is recommended to separate electronic equipment (temperature adjustment devices, programmable timer etc.) from electromechanical equipment (impulse relays, contactors)

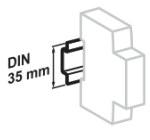
	Technical specifications
Spacing piece	3mm Spacing piece
	9mm Spacing piece



Main parameter and technical performance

Power circuit		
Voltage rating(Ue)	1P,2P	250V AC
	3P,4P	400V AC
Frequency		50/60Hz
Endurance(O–C)		1,000,000 cycles
Electrical		100,000 cycles
Maximum number of switching operation a day		100
Insulation vwltage(Ui)		500 V AC
Pollution degree		2
Rated impulse withstand voltage(Uimp)		2.5kV(4kV for 12/24/48VAC)
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40
Operating temperature		–5℃~+60℃
Storage temperature		–40℃~+70℃
Tropicalization(IEC 60068.1)		Treatment 2 (relative humidity 95% at 55℃
ELSV compliance(Extra Low Safety Voltage)for 12/24/48vac versions		
The product control conforms to the SELV(safety extra low voltage)requirements		

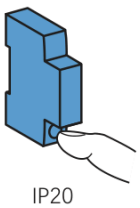
(1)In the case of contactor mounting in a enclosure for which the interior temperature is in range detween 50 ℃ and 60 ℃,it is necessary to use a spacer, between each contactor



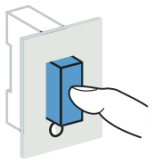
Clip on DIN rail 35 mm



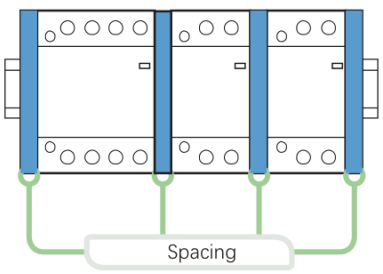
±30°vertical.



IP20



IP40

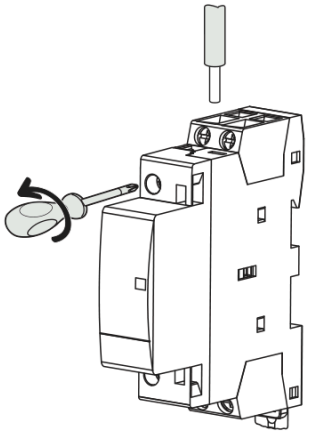


Packing information

Poles	Rated Current (A)	BOX QTY	CTN QTY	Automatic Contactor		Manual Contactor		CARTON SIZE (mm)
				G.W.(kg)	N.W.(kg)	G.W.(kg)	N.W.(kg)	
2P	16	12	120	16.3	14.1	16.3	14.1	500×260×190
	20	12	120	16.3	14.1	16.3	14.1	500×260×190
	25	12	120	16.3	14.1	16.3	14.1	500×260×190
	32	12	120	16.3	14.1	16.3	14.1	500×260×190
	40	6	60	15.7	13.9	15.7	13.9	500×260×190
	63	6	60	15.7	13.9	15.7	13.9	500×260×190
4P	16	6	60	14.2	12.3	13.9	12.3	500×260×190
	20	6	60	14.2	12.3	13.9	12.3	500×260×190
	25	6	60	14.2	12.3	13.9	12.3	500×260×190
	32	6	60	14.2	12.3	13.9	12.3	500×260×190
	40	4	40	15.0	13.3	15.0	13.3	500×260×190
	63	4	40	15.0	13.3	15.0	13.3	500×260×190

Type	Box Qty	CTN Qty	G.W.(kg)	N.W.(kg)	Carton Size (mm)
Auxiliary Contacts	12	120	5.56	3.96	500×260×190
3mm Spacing piece	72	720	5.56	3.36	500×260×190
9mm spacing piece	24	360	6.38	5.18	455×230×240

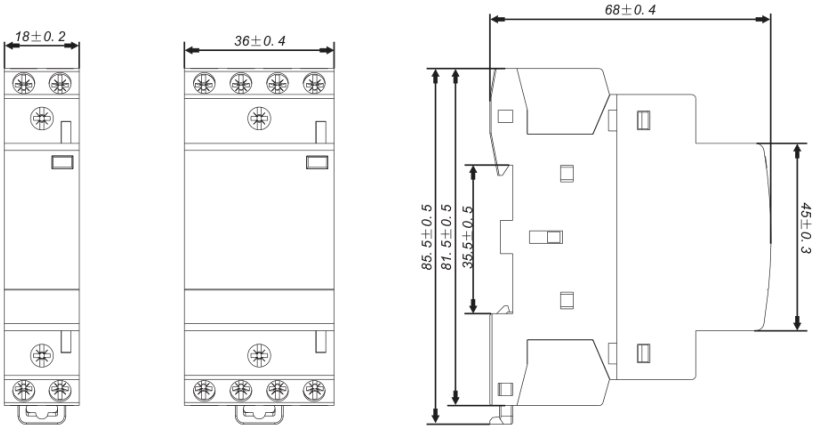
Connection parameter



Type		Rating	Lenght tripping	Circuit	Tightening torque	Copper cables	
						Rigid	Flexible or ferrule
MC7	PZ1:4mm	16–63A	9mm	Control	0.8N.m	1.5~2.5mm² 2×1.5mm²	1.5~2.5mm² 2×2.5mm²
		16–32A		Power		1.5~6mm²	1~4mm²
	PZ2:6mm	40A–63A	14mm		3.5N.m	6~25mm²	6~16mm²
ACTs	PZ1:4mm	–	9mm	–	0.8N.m	1.5~2.5mm² 2×1.5mm²	1.5~2.5mm² 2×2.5mm²

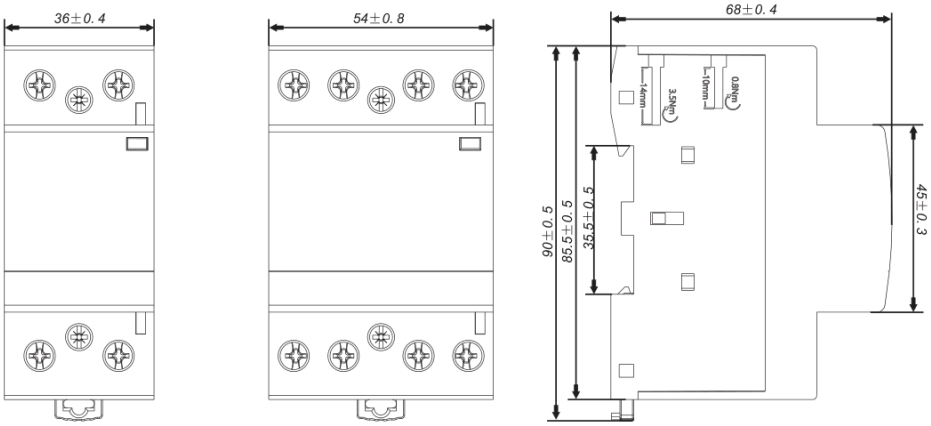
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Product dimensions (mm)



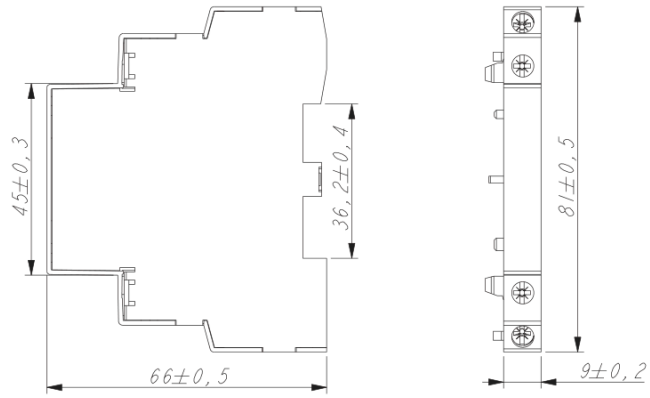
1P/2P 3P/4P

MC7-16/20/25/32



1P/2P 3P/4P

MC7-40/63



MC7-AUC