

MC Magnetic Contactors, Metasol Type

Descriptions: Metasol contactors are designed to show superior technology, sealed structure has improved its safety features so that no arc flash is exposed, in order to emphasize its durability as an individual device, Metasol series adopt simple design form and sophisticated shape applying diamond cut concepts on product surface.

Selection Table of MC Magnetic Contactors, Metasol Type

		Frame size	18AF				22AF				40AF		65AF		100AF			
		Type: MC-	6a	9a	12a	18a	9b	12b	18b	22b	32a	40a	50a	65a	75a	85a	100a	
		Number of poles	3-pole															
		Rated operational voltage, Ue	690V															
		Rated insulation voltage, Ui	690V															
		Rated impulse withstand voltage, Umip	6kV															
		Rated frequency	50/60Hz															
		Max operating rating operating cycles	1800 operations per hour										1200 operations per hour					
Durability	Mechanical	15 million operations																
	Electrical	2.5 million operation										2 million operations						
Current and power	AC-1, Thermal current	A	25	25	25	32	25	25	40	40	50	60	70	100	110	135	160	
			kW	2.2	2.5	3.5	4.5	2.5	3.5	4.5	5.5	7.5	11	15	19	22	25	30
		200/240	A	9	11	13	18	11	13	18	22	32	40	55	65	75	85	105
			kW	3	4	5.5	7.5	4	5.5	7.5	11	15	19	22	30	37	45	55
		380/440	A	7	9	12	18	9	12	18	22	32	40	50	65	75	85	105
			kW	3	4	7.5	7.5	4	7.5	7.5	15	19	22	30	33	37	45	55
		500/550	A	6	7	12	13	7	12	13	20	28	32	43	60	64	75	85
			kW	3	4	7.5	7.5	4	7.5	7.5	15	19	22	30	33	37	45	55
		690	A	4	5	9	9	6	9	9	18	20	23	28	35	42	45	65
			kW	-	-	-	-	-	-	-	-	22	22	30	30	37	37	37
		1000	A	-	-	-	-	-	-	-	-	17	17	23	23	28	28	28
			kW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rated short-time withstand current, IEC 60947	1 Second	A	210	250	280	300	250	280	300	400	600	700	1000	1050	1100	1200	1320	
	10 Seconds	A	105	110	120	130	110	120	154	186	260	300	550	700	750	800	900	
	30 Seconds	A	70	70	80	85	70	80	100	130	160	160	330	380	400	450	500	
	1 Minute	A	61	61	61	70	61	61	84	90	100	100	250	270	300	350	400	
	3 Minute	A	40	45	47	50	45	50	60	60	70	70	150	200	220	270	270	
	10 Minutes	A	30	30	30	40	30	30	40	50	55	55	90	120	140	170	180	
	≥15 Minutes	A	25	26	28	40	26	28	40	45	50	50	87	100	114	150	160	
UL ratings, 50/60Hz	Continuous current	A	25	25	25	32	25	25	40	40	50	60	70	100	110	135	160	
		HP	0.5	0.5	0.8	1	0.5	0.8	1	2	2	2	3	5	5	7.5	10	
	Single phase	110-120	HP	0.5	0.5	0.8	1	0.5	0.8	1	2	2	2	3	5	5	7.5	10
		220-240	HP	1.5	1.5	2	3	1.5	2	3	3	5	5	10	15	15	15	20
	Three phase	200-208	HP	2	2	3	7.5	2	3	7.5	7.5	7.5	15	20	25	25	30	30
		220-240	HP	3	3	5	7.5	3	5	7.5	10	10	15	25	30	30	40	40
440-480		HP	5	5	7.5	10	5	7.5	10	15	20	30	40	50	50	60	75	
500-600		HP	7.5	7.5	10	15	7.5	10	15	20	25	30	50	60	60	75	75	
Size & weight	NEMA size		00	00	0	1	00	0	1	-	1P	2	-	-	-	3	-	
	Weight	kg	0.33				0.34				0.55		1.05		1.93			
	Size, WxHxD	mm	45x73.5x80.4				45x73.5x87.4				69x83x90		79x106x119		94x140x135.8			
Auxiliary	Standard		1a or 1b				1a1b				2a2b		2a2b		2a2b			
	Side mount		UA-1															
	Front mount		UA-2, UA-4															

Selection Table of MT Thermal Overload Relays, Metasol Type

		Type	MT-12/□				MT-32/□		MT-32/□	MT-63/□	MT-95/□
		Screw clamp terminals	•				•		•	•	•
		Rated operational voltage, Ue	690V								
		Rated insulation voltage, Ui	690V								
		Rated impulse withstand voltage, Umip	6kV								
		Trip class	10A, 20								
		Setting range	0.63-18A		1-40A		1-40A		10-65A		16-100A
Size & weight	Weight	kg	0.1		0.17		0.17		0.31		0.48
	Size, WxHxD	mm	45x73.2x63.7		45x75x90		45x75x90		55x81x100		70x97x110