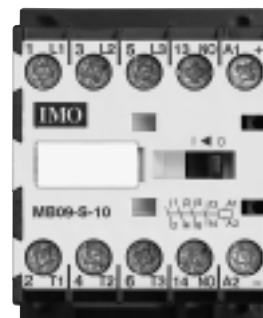


Mini Contactor MB



- DIN or printed circuit mounting
- AC or DC operation
- Long life
- Fingertouch protection
- Twin bifurcated auxiliary contacts
- International approvals including UL and CSA
- Designed to EN 60947-4-1



Options and ordering codes

	MB	09	S
Mini series relay	MR		
Contactor	MB		
Relay		07	
Contactor		09	
		12	
DIN mounting screw terminal			S
Printed circuit mounting			P
Faston terminal 1 x 6.3mm or 2 x 2.8mm			F

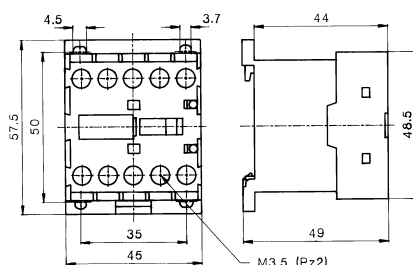
MB09 + MB12	10	Coil Voltage
3 main + 1 make auxiliary	10	
3 main + 1 break auxiliary	01	
MR07		
4 make	40	
3 make 1 break	31	
2 make 2 break	22	
24V 50/60Hz 415V 50Hz		Standard Coils
110V 50/60Hz 24V DC		
220-230V 50Hz 110VDC		

Product selection

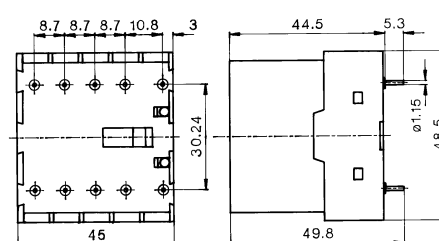
AC operated	DC operated
MR07-S-22	MR07-S-22
MR07-S-31	MR07-S-31
MR07-S-40	MR07-S-40
MB09-S-10	MB09-S-10
MB09-S-01	MB09-S-01
MB09-P-10	MB09-P-10
MB09-P-01	MB09-P-01
MB12-S-10	MB12-S-10
MB12-S-01	MB12-S-01
MB12-P-10	MB12-P-10
MB12-P-01	MB12-P-01

Dimensions (mm)

DIN Mount Screw Terminal



PCB Mount



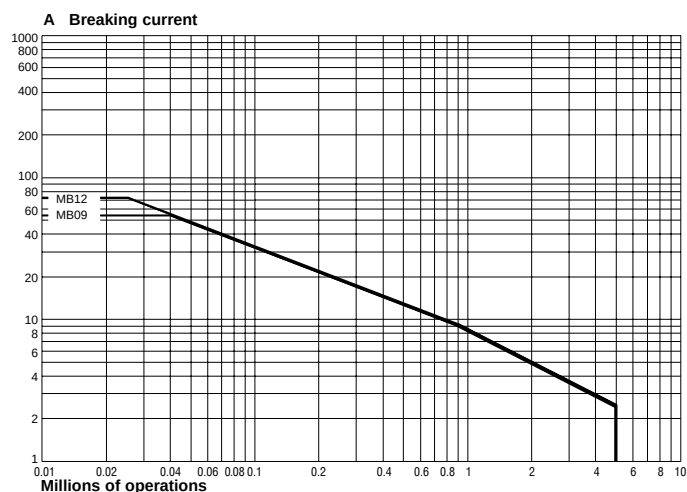
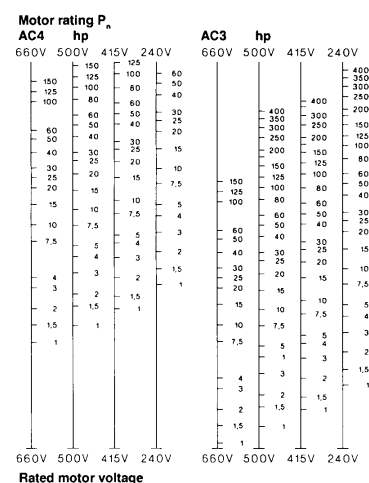
Technical data according to IEC, VDE and BS

Type		MR07-S	MR07-P	MB09-S	MB09-P	MB12-S	MB12-P
Mounting		DIN	Printed Circuit	DIN	Printed Circuit	DIN	Printed Circuit
Main Contacts							
Rated Insulation Volts		690	690	690	690	690	690
Max. Frequency of Operation	AC15 OPS/HR	3000		–		–	
	AC3 OPS/HR	–		600		700	
	Mechanical Life OPS	5 million		5 million		5 million	
	AC1 Amps	16		20	16	20	16
	AC3 Amps 230V	–		11.5		14.5	
	380-400V	–		9		12	
Short Circuit Protection	KW 230V	–		3		4	
	380-400V	–		4		5.5	
Class gl. Highest Fuse Amps		10		20	16	20	
	Highest Fuse Amps (without welding)	10		10	10	10	
Auxiliary Contacts	AC15 Amps 230V	3		3		3	
	Amps 380-415V	2		2		2	
Class gl. Highest Fuse Amps		20		20		20	
Coil Operation	AC and DC Range	0.85 - 1.1		0.85 - 1.1		0.85 - 1.1	
	AC Inrush VA	25		25		25	
	AC Sealed VA	5		5		5	
	AC Sealed W	1.2		1.2		1.2	
	DC Inrush and Sealed W	2.5		2.5		2.5	
Cable Cross Section	Solid mm ²	0.75 - 2.5		0.75 - 2.5		0.75 - 2.5	
	Flexible mm ²	0.75 - 2.5		0.75 - 2.5		0.75 - 2.5	
Contacts and Coil	Flexible with Cable End mm ²	0.5 - 2.5		0.5 - 2.5		0.5 - 2.5	
	No. of Conductors	2		2		2	
Maximum Temperature	Normal use °C	-40 to +60		-40 to +60		-40 to +60	
	Storage °C	-50 to +90		-50 to +90		-50 to +90	

Refer to IMO for UL and CSA ratings

Contact life

MB09/12



Auxiliary contacts

- Add-on contacts
- Snap on top of contactor
- Twin bifurcated contacts suitable for low level switching

Contacts	For use with	Product
1 make 1 break	MR07	HK11
2 make 2 break	MR07	HK22
1 make 1 break	MB09/12	HKM11
2 make 2 break	MB09/12	HKM22
1 make 1 break	MB09-R-S-01 (LHS)	HKM11V
1 make 1 break	MB09-R-S-01 (RHS)	HKM11X

Ratings

AC1 (I_n)	10A	690 V AC
AC15	3A	230 V AC
	2A	400 V AC

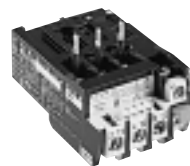
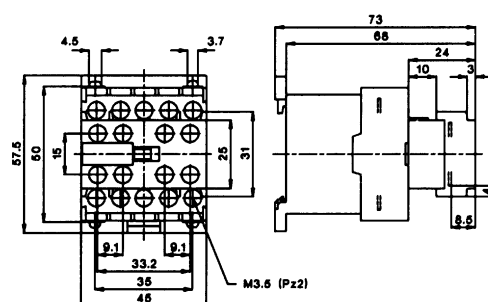
Overload

- Hand reset
- Single phase protection
- Trip and alarm contacts
- Ambient temperature compensation -25 to +40°C

Current Range	Product
0.12–0.18	U1216E 0.18
0.18–0.27	U1216E 0.27
0.27–0.4	U1216E 0.4
0.4–0.6	U1216E 0.6
0.6–0.9	U1216E 0.9
0.8–1.2	U1216E 1.2
1.2–1.8	U1216E 1.8
1.8–2.7	U1216E 2.7
2.7–4	U1216E 4
4–6	U1216E 6
6–9	U1216E 9
8–11	U1216E 11
10–14	U1216E 14



Dimensions (mm)



Dimensions (mm)

