OMICRON

www.omicronelectronic.com

OMICRON

COMPANY PROFILE

Is one of the national new high-tech enterprises integrated of researching, producing and selling water-proof electric, low-voltage electric and new energy electric products.

Established in 1992,OMICRON now is gradually becoming the influential electric manufacturer in the World after many years well development.With a great brand effect,OMICRON has the completed sales and service network with its products been exported to all over the world like Europe. Australia. American. Africa. Oceania. South east of Asia, and district of HongKong, Macaw,Turkey and Taiwan. OMICRON is awarded the title of Famous Export Brand.

OMICRON now has the factory area 60000 m2 and workers more than 600, including over 10 senior engineers, 30 professional technicists and 30 senior executives. Products pass the certification of CE, CB, UL, VDE, TUV, KEMA, SAA, SEMKO, ROHS, and China CCC as well as quality management system such as ISO9001,ISO14001,ISO45001,ISO5001.

Cooperated with domestic and foreign R&D institutions,OMICRON, successively developed more than 100 independent intellectual properties; some of them were successfully awarded the national patent for invention and utility models as its well performance.OMICRON now has been selected as provincial technical research and development center and patent demonstration enterprise by government.

OMICRON always adheres to the enterprise principle of "Scientific management, independent Innovation, Coordinating Collaboration and Cultural Brand", keep faith of "moral first" and fulfill the core value of "double-win cooperation with customers, creating profit for company owners, getting rich together with workers, building harmony for society" and fight for the mission of"make the dream of world famous electrical brand come true".

CERTIFICATE

Contents

Contactors

3-pole contactors

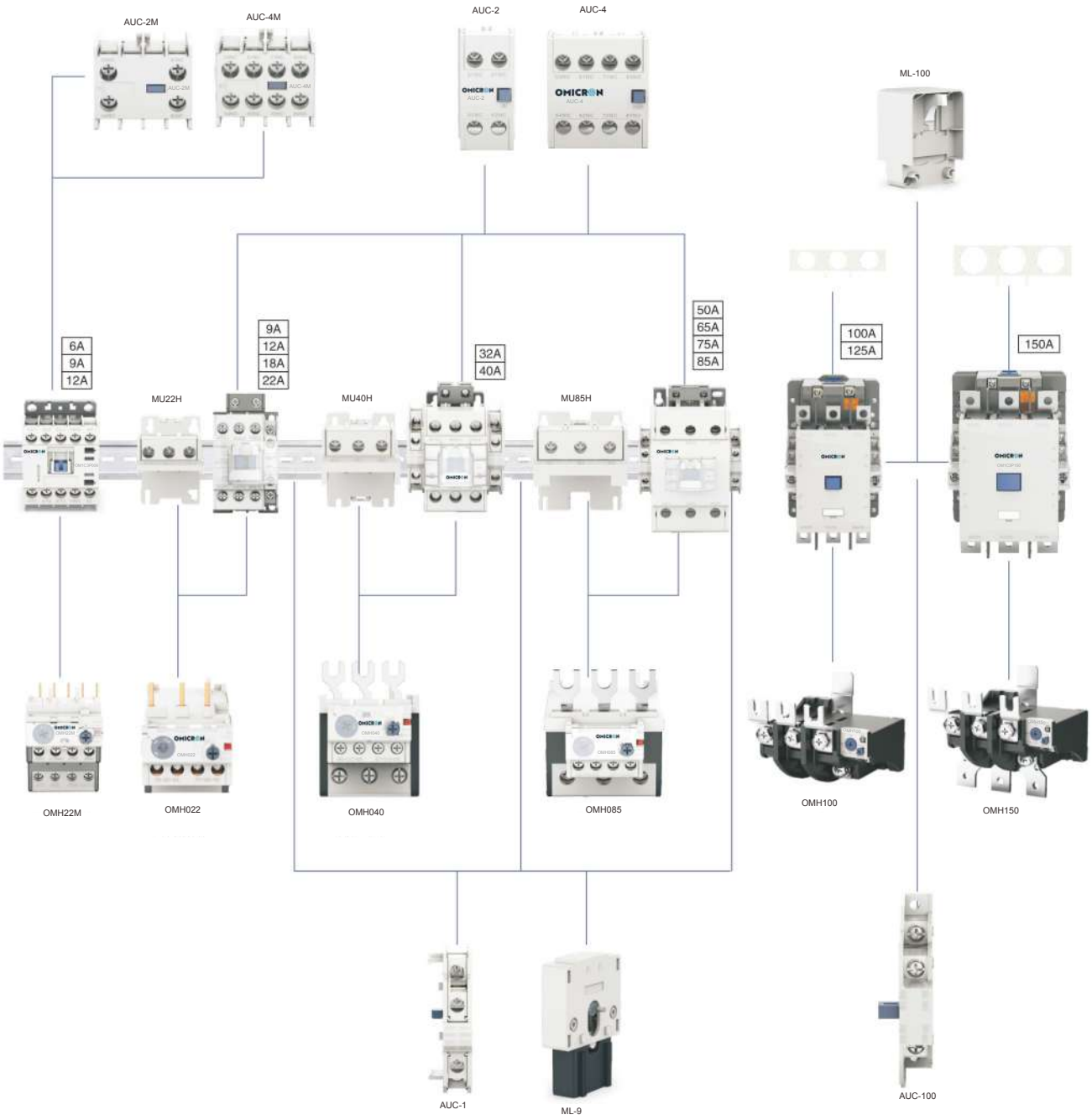
Model	6	9	12	18	22	32	40	50	65
(kW,400V) Power	2.2	4	5.5	7.5	11	15	18.5	22	30

4-pole contactors

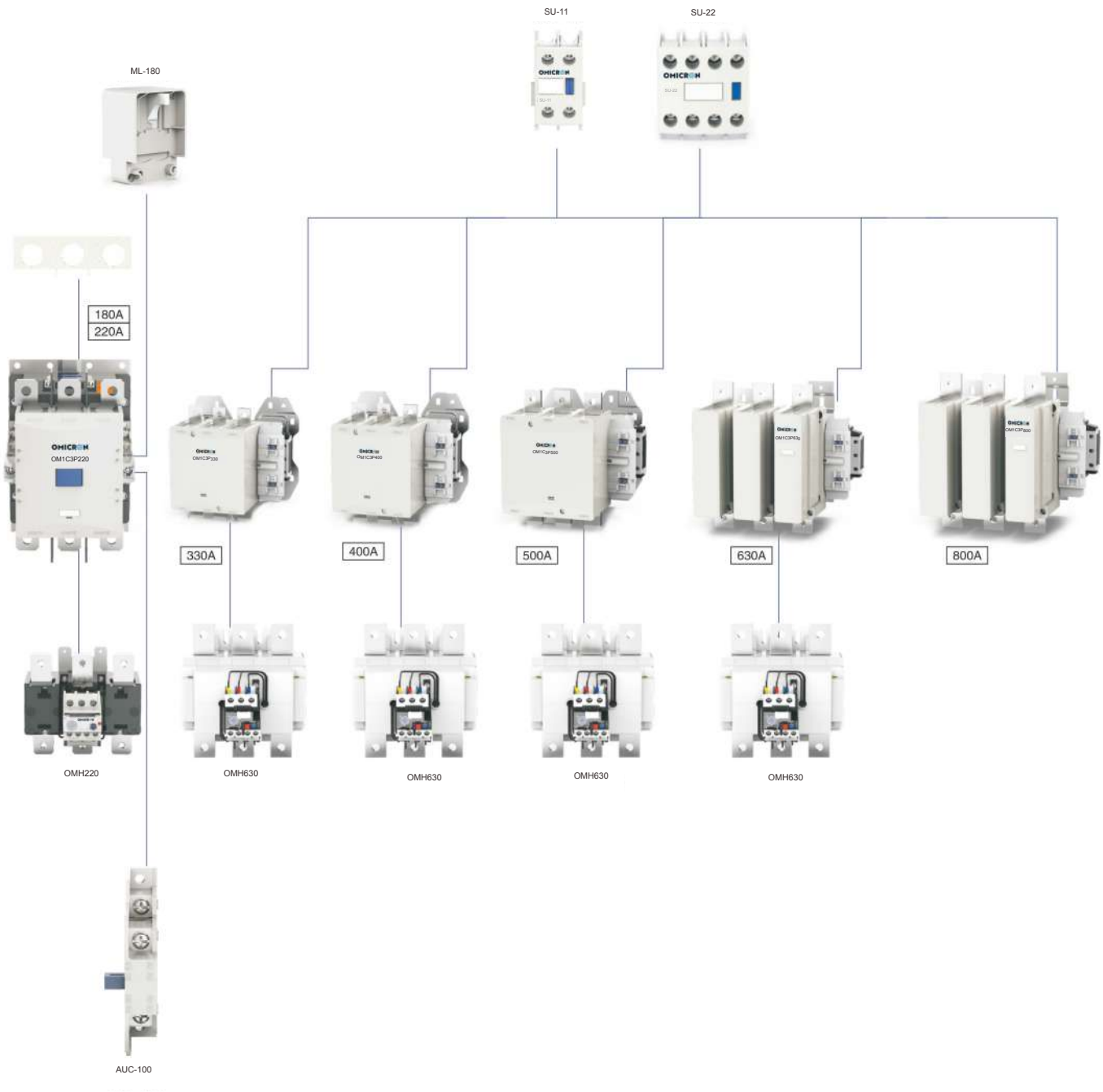
Contactors

75	85	100	125	150	180	220	330	400	500	630	800
37	45	55	60	75	90	132	200	250	295	400	450

Contactors


AUC-2M
AUC-4M
AUC-2
AUC-4
ML-100
6A
9A
12A
9A
12A
18A
22A
32A
40A
50A
65A
75A
85A
100A
125A
150A
MU22H
MU40H
MU85H
OMH22M
OMH022
OMH040
OMH085
OMH100
OMH150
AUC-1
ML-9
AUC-100

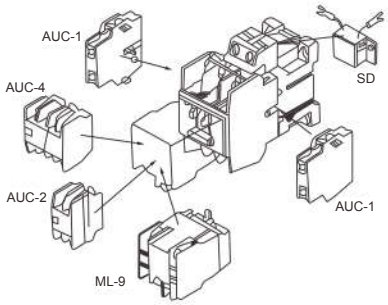
Contactors


SU-11
SU-22
ML-180
180A
220A
OM1C3P220
330A
400A
500A
630A
800A
OMH220
OMH630
OMH630
OMH630
OMH630
AUC-100

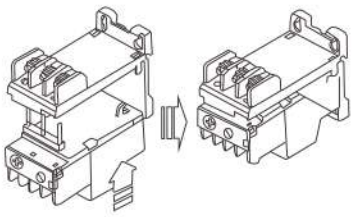
3P Contactors

OM1C3P009-085

Electromagnetic contactor



Thermal overload relays



Convenient for use and reasonable structure
Auxiliary electrified contact block is used, convenient for installstion
Contact and heat overload relay are set with electric shock shield.

(9A-85A)

Contactor and thermal overload relay is classified into three types according to external dimensions.

Contactor and thermal relay can be connected directly, without any other fittings

Install by using screws or directly install at the standard guide track of 35mm.

3P Contactors

OM1C3P100-200

It is not necessary to dismantle auxiliary contact block.
Contactor while replacing auxiliary contact.

Easy to replace coil
It is easy to replace coil for using drawout type coil structure and unnecessary to dismantle contactor.

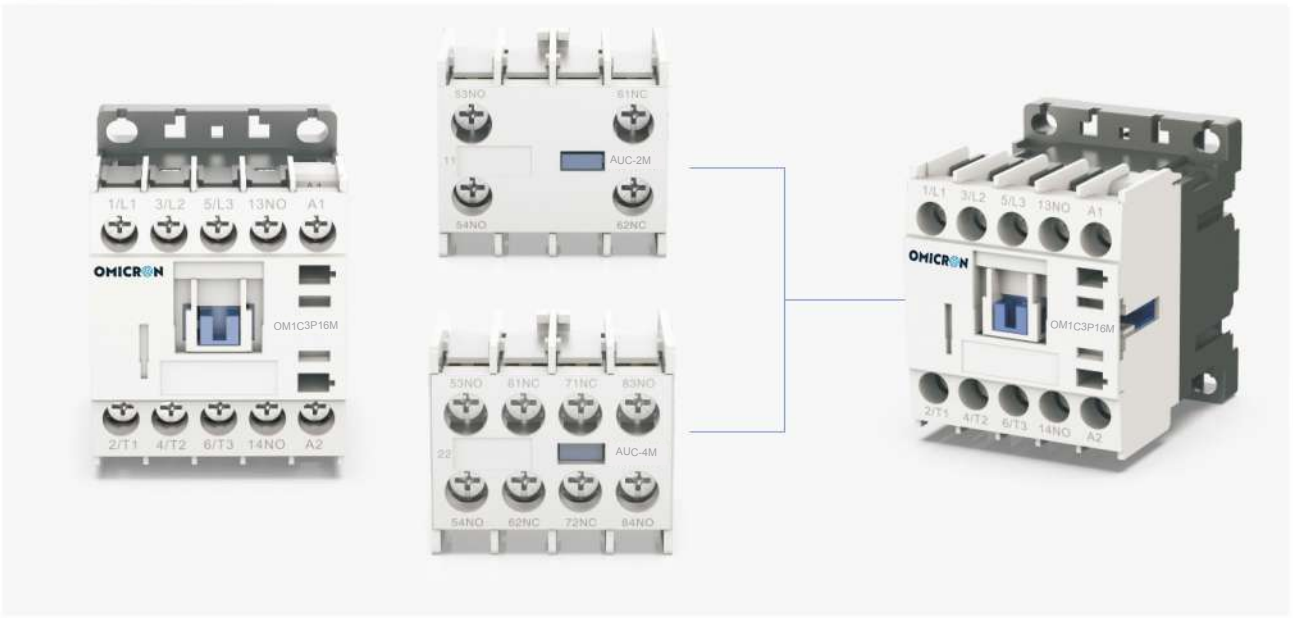
Variety of fittings
Reversible type contactor.
Mechanical interlock unit.
Delay breaking unit

Mechanical lock unit
Using clamp type connecting terminal

Mini Contactors

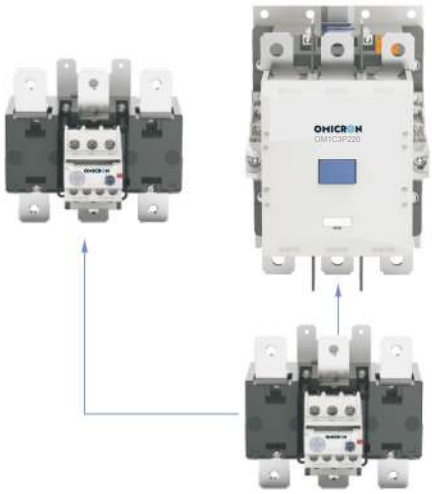
Mini contactor and accessories

Frame	AC3 (IEC60947)				AC1 Ith
	220V-240V	380V-440V	500V-550V	690V	
6A	1.5KW 7A	2.2KW 6A	3KW 5A	3KW 4A	20A
9A	2.2KW 9A	4KW 9A	3.7KW 6A	4KW 5A	20A
12A	3KW 12A	5.5KW 12A	4KW 7A	4KW 5A	20A
16A	4KW 15A	7.5KW 16A	5.5KW 9A	4KW 5A	20A

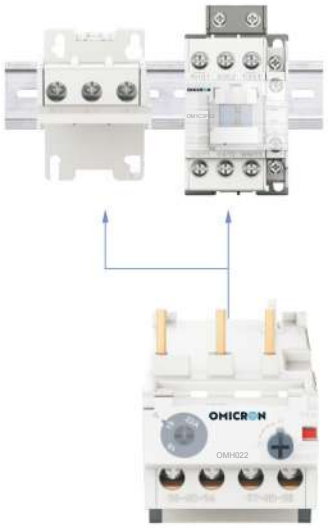


Thermal Overload Relays

Thermal (bimetal element) type, max reaches 220A,OMH type thermal overload relay can be connected with contactor directly or individually with the help of additional independent mounting support.

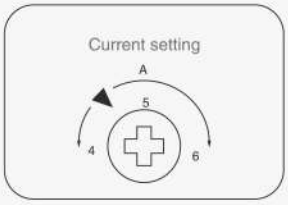


If it is required to mount the thermal overload relay separately, use single seat and fix with screws or guide track. (Application type:OMH022,040,085)

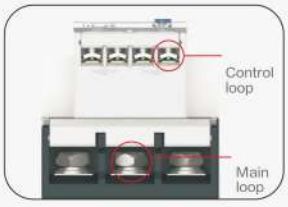


Thermal overload relay of 100A above can be installed at subpanel directly by screw, please select base plate according to the specification.

Thermal overload relays characteristics

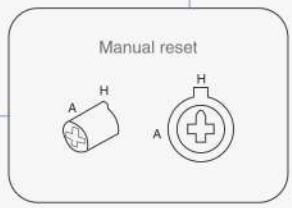


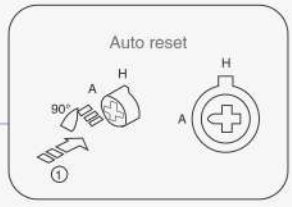
Design of safety cover



Main loop terminal has sharp difference from control loop terminal, thus it is hard to make wrong connection.

The thermal overlaod relay will protrude about 2-3mm in the case of release, which shows the release status available.





Automatic reset setting: Press down the reset button and rotate anticlockwise for 90degree.

OM1C Contactor(9A-85A)

Model			OM1C3P009	OM1C3P012	OM1C3P018	OM1C3P022
AC coil			OM1C3P009	OM1C3P012	OM1C3P018	OM1C3P022
DC coil			OM1C3P009D	OM1C3P012D	OM1C3P018D	OM1C3P022D
IEC–60947 CE	AC1	AC1 Load	25A	25A	40A	40A
	AC3 AC3 Load	200~240V	2.5KW 11A	3.5KW 13A	4.5KW 18A	5.5KW 22A
		380~440V	4KW 9A	5.5KW 12A	7.5KW 18A	11KW 22A
		500~550V	4KW 7A	7.5KW 12A	7.5KW 13A	15KW 22A
		690V	4KW 5A	7.5KW 9A	7.5KW 9A	15KW 18A
UL508	(ith) Continuous current		20A	25A	30A	32A
	Single phase Motor	115V	0.5HP	0.5HP	1HP	2HP
		230V	1Hp	2Hp	3Hp	3Hp
	Three phases Motor	200V	2HP	3HP	5HP	7.5HP
		230V	2HP	3HP	5HP	7.5HP
		460V	5HP	7.5HP	10HP	10HP
		575V	7.5HP	10HP	15HP	15HP
NEMA size			00	00	0	0
Aux. Contacts			 Top mounting of 2–pole	 Top mounting of 4–pole	 Side mounting of 2–pole	
Four pole contactors						
AC coil			OM1C4P009	OM1C3P012	OM1C3P018	OM1C3P022
DC coil			OM1C4P009D	OM1C3P012D	OM1C3P018D	OM1C3P022D
AC1(A)			20	20	25	32

Thermal overload relays

Bimetal OM type			OMH022 	Rated current(A) 0.1–0.16 | 4–6 0.16–0.25 | 5–8 0.25–0.4 | 6–9 0.4–0.63 | 7–10 0.63–1 | 9–13 1–1.6 | 12–18 1.6–2.5 | 16–22 2.5–4	 Independent mounting unit	
Class 10A	Phase–failure protection type		OMK022			
	Standard type		OMH022/3			
Class 20A	Delay breaking type		OMK022/L			

OM1C Contactor(9A-85)

OM1C3P032	OM1C3P040	OM1C3P050	OM1C3P065	OM1C3P075	OM1C3P085
OM1C3P032	OM1C3P040	OM1C3P050	OM1C3P065	OM1C3P075	OM1C3P085
OM1C3P032D	OM1C3P040D	OM1C3P050D	OM1C3P065D	OM1C3P075D	OM1C3P085D
50A	60A	80A	100A	110A	135A
7.5KW 32A	11KW 40A	15KW 55A	18.5KW 65A	22KW 75A	25KW 85A
15KW 32A	18.5KW 40A	22KW 50A	30KW 65A	37KW 75A	45KW 85A
18.5KW 28A	22KW 32A	30KW 43A	33KW 60A	37KW 64A	45KW 75A
18.5KW 20A	22KW 23A	30KW 28A	33KW 35A	37KW 42A	45KW 45A
45A	50A	70A	80A	90A	100A
2HP	3HP	3HP	5HP	5HP	7.5HP
5Hp	5Hp	7.5Hp	10Hp	15Hp	15Hp
7.5HP	10HP	10HP	15HP	20HP	25HP
10HP	10HP	15HP	20HP	25HP	30HP
20HP	25HP	30HP	40HP	50HP	50HP
20HP	25HP	30HP	40HP	50HP	50HP
1	1	2	2	2	3

Top mounting of 2-pole

Top mounting of 4-pole

Side mounting of 2-pole

OM1C4P032	OM1C4P040	OM1C4P050	OM1C4P065	OM1C4P075	OM1C4P085
OM1C4P032D	OM1C4P040D	OM1C4P050D	OM1C4P065D	OM1C4P075D	OM1C4P085D
50	60	80	100	110	135

Thermal overload relays

OMH040

Rated current(A)

4–6	12–18
5–8	16–22
6–9	18–26
7–10	24–36
9–13	28–40

Independent mounting unit

OMH085

Rated current(A)

7–10	28–40
9–13	34–50
12–18	45–65
16–22	54–75
18–26	63–85
24–36	

Independent mounting unit

OMK040	OMK085
OMH040/3	OMH085/3
OMK040/L	OMK085/L

OM1C Contactor (100A-400A)

Model			OM1C3P100		OM1C3P125		OM1C3P150	
AC coil			OM1C3P100		OM1C3P125		OM1C3P150	
DC coil			OM1C3P100D		OM1C3P125D		OM1C3P150D	
IEC–60947 CE	AC1	AC1 Load		160A		160A		200A
	AC3 AC3 Load	200~240V	30KW	105A	37KW	125A	45KW	150A
		380~440V	55KW	105A	60KW	120A	75KW	150A
		500~550V	55KW	85A	60KW	90A	90KW	140A
		690V	55KW	65A	60KW	70A	90KW	100A
UL508	(ith) Continuous current			160A		160A		210A
	Single phase Motor	115V	7.5HP		10HP		15HP	
		230V	15HP		20HP		25HP	
	Three phases Motor	200V	30HP		40HP		40HP	
		230V	30HP		40HP		50HP	
		460V	60HP		75HP		100HP	
		575V	60HP		75HP		100HP	
NEMA size			3		3		4	

Aux. Contacts

AUC-100
Side mounting

Four pole contactors

AC coil	OM1C4P100	OM1C4P125	OM1C4P150
DC coil	OM1C4P100D	OM1C4P125D	OM1C4P150D
AC1(A)	150	155	200

Thermal overload relays

Bimetal OM type

OMH100

Rated current(A)
34–50
39–57
43–65
54–80
65–100
85–125

OMH150

Rated current(A)
34–50
39–57
43–65
54–80
65–100
85–125
100–150

Class 10A	Phase–failure protection type	OMK100	OMK150
	Standard type	OMH100/3	OMH150/3
Class 20A	Delay breaking type	OMK100/L	OMK150/L

OM1C Contactor (100A-400A)

OM1C3P180		OM1C3P220		OM1C3P330		OM1C3P400	
OM1C3P180		OM1C3P220		OM1C3P330		OM1C3P400	
OM1C3P180D		OM1C3P220D		OM1C3P330D		OM1C3P400D	
	230A		260A		400A		500A
55KW	180A	75KW	250A	100KW	330A	110KW	400A
90KW	180A	132KW	250A	200KW	330A	250KW	400A
110KW	180A	132KW	200A	200KW	310A	257KW	400A
110KW	120A	132KW	150A	200KW	200A	280KW	305A
	230A		275A		400A		500A
15HP		15HP					
30HP		40HP					
60HP		60HP		100HP		125HP	
60HP		75HP		100HP		150HP	
125HP		150HP		200HP		300HP	
125HP		150HP		200HP		300HP	
4		4		5		5	

AUC-100

Side mounting

Side mounting of 2–pole

Side mounting of 4–pole

OM1C4P180	OM1C4P220	OM1C4P330	OM1C4P400
OM1C4P180D	OM1C4P220D	OM1C4P330D	OM1C4P400D
230	260	400	500

Thermal overload relays

OMH220

Rated current(A)
65–100
85–125
100–150
120–180
160–240

OMH630

Rated current(A)
160–250
200–315
250–400
315–500
400–630

OMK220	OMK630
OMH220/3	OMH630/3
OMK220/L	OMK630/L

OM1C Contactor (500A-800A)



Model			OM1C3P500	OM1C3P630	OM1C3P800
AC coil			OM1C3P500	OM1C3P630	OM1C3P800
DC coil			OM1C3P500D	OM1C3P630D	OM1C3P800D
IEC–60947 CE	AC1	AC1 Load	700A	1000A	1600A
	AC3 AC3 Load	200~240V	147KW 500A	200KW 630A	220KW 800A
		380~440V	295KW 500A	400KW 630A	450KW 800A
		500~550V	355KW 450A	400KW 600A	450KW 650A
		690V	335KW 355A	450KW 460A	475KW 500A
UL508	(ith)		700A	1000A	1600A
	Single phase Motor	115V			
		230V			
	Three phases Motor	200V	140HP	150HP	200HP
		230V	170HP	200HP	250HP
		460V	350HP	400HP	500HP
		575V	350HP	400HP	500HP
NEMA size			6	6	7

Aux. Contacts

Side mounting of 2–pole

Side mounting of 4–pole

Four pole contactors				
AC coil		OM1C4P500	OM1C4P630	OM1C4P800
DC coil		OM1C4P500D	OM1C4P630D	OM1C4P800D
AC1(A)		700	1000	1600

Thermal overload relays

Bimetal OM type

OMH630

Rated current(A)
200–330
300–500
380–630

Class 10A	Phase–failure protection type	OMK630
	Standard type	OMH630/3
Class 20A	Delay breaking type	OMK630/L

OM1C Contactor (6M-16M)

Model			OM1C3P06M		OM1C3P09M		OM1C3P12M		OM1C3P16M	
AC coil			OM1C3P06M		OM1C3P09M		OM1C3P12M		OM1C3P16M	
DC coil			OM1C3P06DM		OM1C3P09DM		OM1C3P12DM		OM1C3P16DM	
IEC–60947 CE	AC1 Load		20		20		20		20	
	AC3 Load	200~240V	1.5KW	7A	2.2KW	9A	3KW	12A	4KW	15A
		380~440V	2.2KW	6A	4KW	9A	5.5KW	12A	7.5KW	16A
		500~550V	3KW	5A	3.7KW	6A	4KW	7A	5.5KW	9A
		690V	3KW	4A	4KW	5A	4KW	5A	4KW	5A
UL508	Continuous current		20A		25A		30A		32A	
	Singlephases Motor	115V	0.5HP		0.5HP		1HP		2HP	
		230V	1HP		2HP		3HP		3HP	
	Three phases Motor	200V	2HP		3HP		5HP		7HP	
		230V	2HP		3HP		5HP		7.5HP	
		460V	5HP		7.5HP		10HP		10HP	
		575V	7.5HP		10HP		15HP		15HP	
NEMA size			00		00		00		00	

Aux. Contacts

AUC-1M

AUC-2M

AUC-4M

Thermal overload relays

Bimetal OM type

OMK12M

Rated current(A)

0.1–0.16	2.5–4
0.16–0.25	4–6
0.25–0.4	5–8
0.4–0.63	6–9
0.63–1	7–10
1–1.6	9–13
1.6–2.5	12–16

Independent mounting unit

Class 10A	Phase–failure protection type	OMK12M
	Standard type	OMK12M/3

OM2C Contactor (9A-85A)

Model			OM2C3P009	OM2C3P012	OM2C3P018	OM2C3P022
AC coil			OM2C3P009	OM2C3P012	OM2C3P018	OM2C3P022
DC coil			OM2C3P009D	OM2C3P012D	OM2C3P018D	OM2C3P022D
IEC–60947 CE	AC1	AC1 Load	25A	25A	40A	40A
	AC3 AC3 Load	200~240V	2.5KW 11A	3.5KW13A	4.5KW18A	5.5KW 22A
		380~440V	4KW 9A	5.5KW12A	7.5KW18A	11KW 22A
		500~550V	4KW 7A	7.5KW12A	7.5KW13A	15KW 22A
		690V	4KW 5A	7.5KW 9A	7.5KW 9A	15KW 18A
UL508	Continuous current		20A	25A	30A	32A
	Single phase Motor	115V	0.5HP	0.5HP	1HP	2HP
		230V	1Hp	2Hp	3Hp	3Hp
	Three phases Motor	200V	2HP	3HP	5HP	7.5HP
		230V	2HP	3HP	5HP	7.5HP
		460V	5HP	7.5HP	10HP	10HP
		575V	7.5HP	10HP	15HP	15HP
NEMA size			00	00	0	0

Aux. Contacts

Top mounting of 2–pole

Top mounting of 4–pole

Side mounting of 2–pole

Thermal overload relays

Bimetal OM type

OMK022

Rated current(A)

0.1–0.16	4–6
0.16–0.25	5–8
0.25–0.4	6–9
0.4–0.63	7–10
0.63–1	9–13
1–1.6	12–18
1.6–2.5	16–22
2.5–4	

Independent mounting unit

Class 10A	Phase–failure protection type	OMK022
	Standard type	OMH022/3
Class 20A	Delay breaking type	OMK022/L

OM2C Contactor (9A-85A)

Model			OM2C3P032	OM2C3P040	OM2C3P085
AC coil			OM2C3P032	OM2C3P040	OM2C3P085
DC coil			OM2C3P032D	OM2C3P040D	OM2C3P085D
IEC–60947 CE	AC1	AC1 Load	50A	60A	135A
	AC3 Load	200~240V	7.5KW 32A	11KW 40A	25KW 85A
		380~440V	15KW 32A	18.5KW 40A	45KW 85A
		500~550V	18.5KW 28A	22KW 32A	45KW 75A
		690V	18.5KW 20A	22KW 23A	45KW 45A
UL508	(ith) Continuous current		45A	50A	100A
	Single phase Motor	115V	2HP	3HP	7.5HP
		230V	5Hp	5Hp	15Hp
	Three phases Motor	200V	7.5HP	10HP	25HP
		230V	10HP	10HP	30HP
		460V	20HP	25HP	50HP
		575V	20HP	25HP	50HP
NEMA size			1	1	3

Aux. Contacts

AUC-2

Top mounting of 2–pole

AUC-4

Top mounting of 4–pole

Side mounting of 2–pole

Thermal overload relays

Bimetal OM type

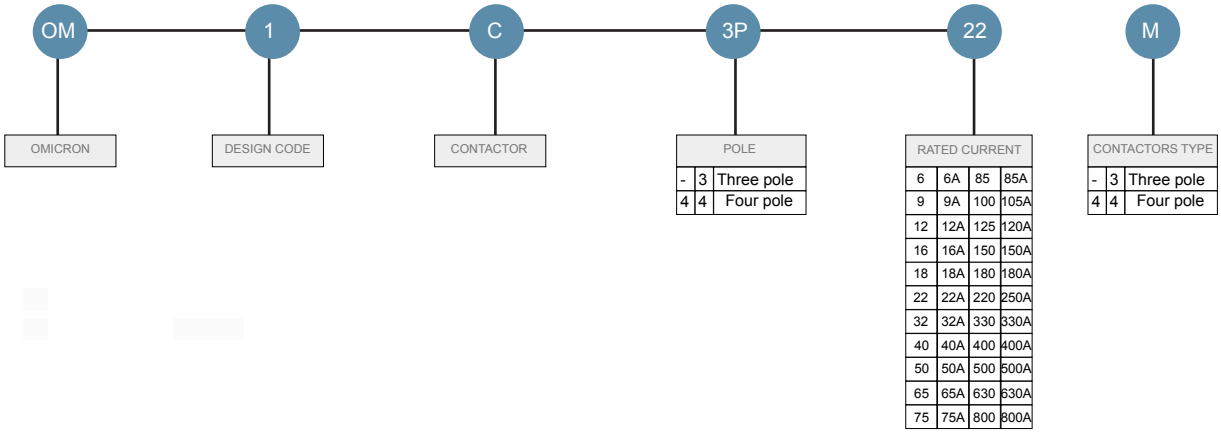
OMK040

Rated current(A)	
4–6	12–18
5–8	16–22
6–9	18–26
7–10	24–36
9–13	28–40

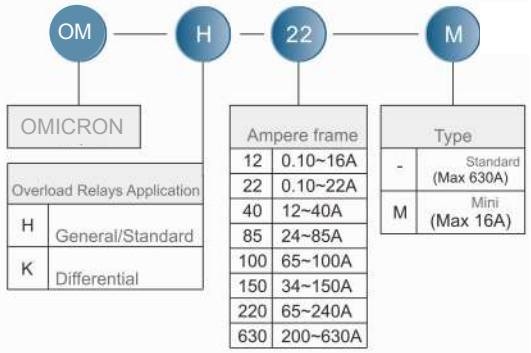
Independent mounting unit

Class 10A	Phase–failure protection type	OMK040
	Standard type	OMH040/3
Class 20A	Delay breaking type	OMK040/L

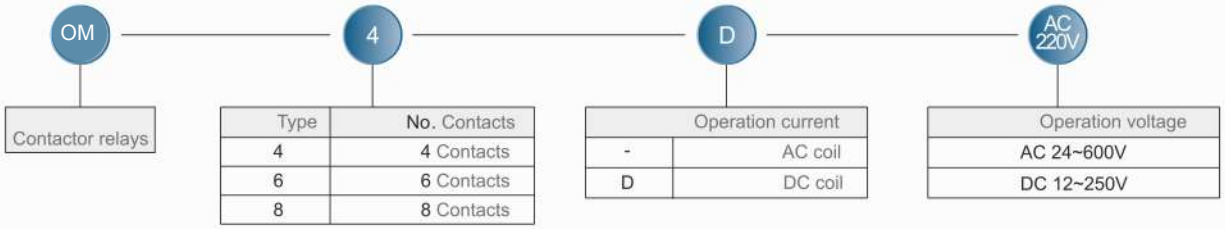
Model Definition



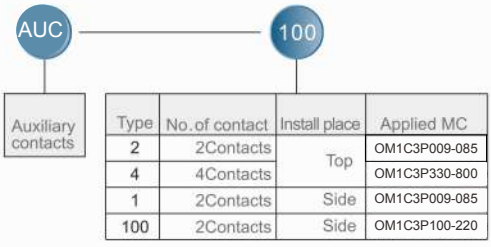
Thermal overload relay



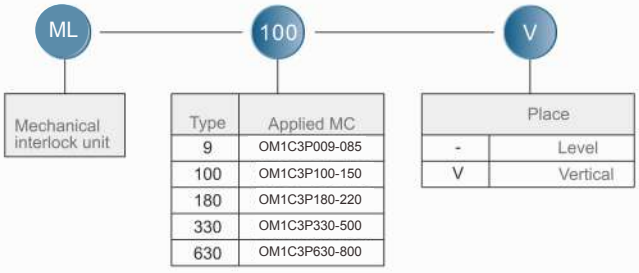
Contactor relay



Auxiliary contacts



Mechanical interlock unit



Mini Contactor

Characteristics
- Four motor control
- 3 pairs of main contacts and 1 pair of auxiliary contacts
- Coil voltage: AC / DC

AC coil

Type	Rated current	AC3(IEC60947)				AC1 Ith	Aux. Contacts
		220~240V	380~440V	500~550V	690V		
OM1C3P06M	6A	1.5KW 7A	2.2KW 6A	3KW 5A	3KW 4A	20A	1NO or 1NC
OM1C3P09M	9A	2.2KW 9A	4KW 9A	3.7KW 6A	4KW 5A	20A	1NO or 1NC
OM1C3P12M	12A	3KW 12A	5.5KW 12A	4KW 7A	4KW 5A	20A	1NO or 1NC
OM1C3P16M	16A	4KW 15A	7.5KW 16A	5.5KW 9A	4KW 5A	20A	1NO or 1NC

AC coil 50/60Hz

24, 36, 42, 48, 110, 115, 120, 127, 200/208, 220, 220/230, 230/240, 256, 277, 380/400, 400, 440, 480, 500, 550V AC

DC coil

Type	Rated current	AC3(IEC60947)				AC1 Ith	Aux. Contacts
		220~240V	380~440V	500~550V	690V		
OM1C3P06DM	6A	1.5KW 7A	2.2KW 6A	3KW 5A	3KW 4A	20A	1NO or 1NC
OM1C3P09DM	9A	2.2KW 9A	4KW 9A	3.7KW 6A	4KW 5A	20A	1NO or 1NC
OM1C3P12DM	12A	3KW 12A	5.5KW 12A	4KW 7A	4KW 5A	20A	1NO or 1NC
OM1C3P16DM	16A	4KW 15A	7.5KW 16A	5.5KW 9A	4KW 5A	20A	1NO or 1NC

Mini Contactor

Characteristics

Rated current		6A	9A	12A	16A
Short circuit current (Max)	380V	60	90	120	160
	660V	72	108	144	180
Breaking current (Max)	380V	48	72	96	128
	660V	60	90	120	150
Operating cyclesper hour	AC–3	1800	1800	1800	1800
	AC–4	300	300	300	300
Electrical Life time (10,000 timez)	AC–3	100	100	100	100
	AC–4	20	20	20	20
Machanical Life time (10,000 timez)		1200	1200	1200	1200
Aux. Contacts	Standard configuration	1NO	1NO	1NO	1NO
	Top munting	AUC-2M/4M	AUC-2M/4M	AUC-2M/4M	AUC-2M/4M
Panel installation		Guide screw	Guide screw	Guide screw	Guide screw

Characteristics of the coil

Coil Voltage	AC	DC		
		Standard	Low–loss	Wide–voltage
Coil consumption(VA)	2	3	1.2	2
Pick–up	32VA	3W	1.2W	2W
Maintain	6VA	3W	1.2W	2W
Selectios of pick–up voltage	80~110	80~110	80~125	70~125
Selectios of droup–out voltage	30~40	10~30	10~30	10~30
Pick–up times	10~20	40~50	40~50	40~50
Droup–out times	35~45	35~45	35~45	35~45

Reversing Mini Contactor

Characteristics
- Four motor control
- Mechanical interlock
- Coil voltage: AC / DC

AC coil

Type	Rated current	AC3(IEC60947) 220~240V	380~440V	500~550V	690V	AC1 Ith	Aux. Contacts
OM1C3P06MR	6A	1.5KW 7A	2.2KW 6A	3KW 5A	3KW 4A	20A	1NO or 1NC
OM1C3P09MR	9A	2.2KW 9A	4KW 9A	3.7KW 6A	4KW 5A	20A	1NO or 1NC
OM1C3P12MR	12A	3KW 12A	5.5KW 12A	4KW 7A	4KW 5A	20A	1NO or 1NC
OM1C3P16MR	16A	4KW 15A	7.5KW 16A	5.5KW 9A	4KW 5A	20A	1NO or 1NC

AC coil 50/60Hz

24, 36, 42, 48, 110, 115, 120, 127, 200/208, 220/230, 230/240, 256, 277, 380/400, 400, 440, 480, 500, 550V AC

DC coil

Type	Rated current	AC3(IEC60947) 220~240V	380~440V	500~550V	690V	AC1 Ith	Aux. Contacts
OM1C3P06DMR	6A	1.5KW 7A	2.2KW 6A	3KW 5A	3KW 4A	20A	1NO or 1NC
OM1C3P09DMR	9A	2.2KW 9A	4KW 9A	3.7KW 6A	4KW 5A	20A	1NO or 1NC
OM1C3P12DMR	12A	3KW 12A	5.5KW 12A	4KW 7A	4KW 5A	20A	1NO or 1NC
OM1C3P16DMR	16A	4KW 15A	7.5KW 16A	5.5KW 9A	4KW 5A	20A	1NO or 1NC

DC coil

Standard type：12, 20, 24, 36, 42, 48, 60, 72, 110, 120, 125, 220, 240, 250V DC

Low-loss type：12, 20, 24, 48, 72, 110, 120V DC(Low)

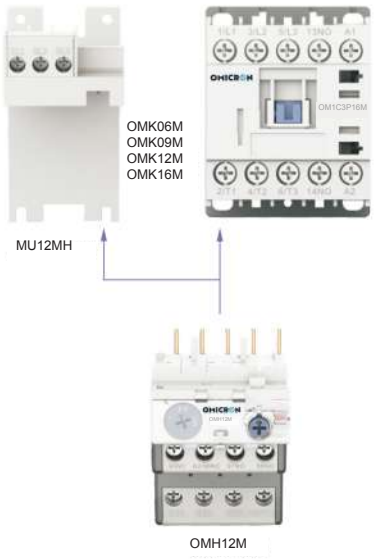
Wide-voltage type：12, 20, 24, 48, 72, 110, 120V DC(Wide)

Mini Thermal Overload Relay

Characteristics

- Be connected with contactor directly.
- Model of contactor: OM1C3P06M(D)
  OM1C3P09M(D)
  OM1C3P12M(D)
  OM1C3P16M(D)
- Small size: 44mm width
- 1NO+1NC Auxiliary contacts
- Class 10A trip is in accordance with the standard IEC60947-4-1
- Phase-failure protection type: OMK
- Standard type: OMH
- Applicable ambient temperature: -5~40℃
- Manual/automatic reset is available
- Remote reset is optional
- Design of free trip

OMH12M



Current range(A)	OMK12M OMK Phase-failure protection type	OMH12M OMH standard type
0.1–0.16	OMK12M · 0.16	OMH12M · 0.16
0.16–0.25	OMK12M · 0.25	OMH12M · 0.25
0.25–0.4	OMK12M · 0.4	OMH12M · 0.4
0.4–0.63	OMK12M · 0.63	OMH12M · 0.63
0.63–1	OMK12M · 1	OMH12M · 1
1–1.6	OMK12M · 1.6	OMH12M · 1.6
1.6–2.5	OMK12M · 2.5	OMH12M · 2.5
2.5–4	OMK12M · 4	OMH12M · 4
4–6	OMK12M · 6	OMH12M · 6
5–8	OMK12M · 8	OMH12M · 8
6–9	OMK12M · 9	OMH12M · 9
7–10	OMK12M · 10	OMH12M · 10
9–13	OMK12M · 13	OMH12M · 13
12–16	OMK12M · 16	OMH12M · 16

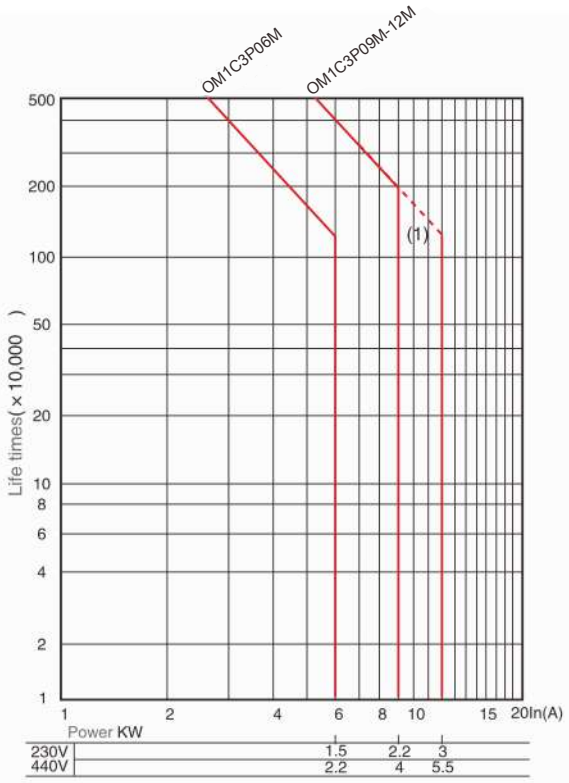
Rated parameter of auxiliary contact

Note: The value in the bracket is the rated value of NO contact that is under the mode of auto reset.

AC15(11) Load			DC13(11) Load	
110V	220V	550V	110V	220V
2.5(0.3)A	2(0.3)A	1(0.3)A	0.28A	0.14A

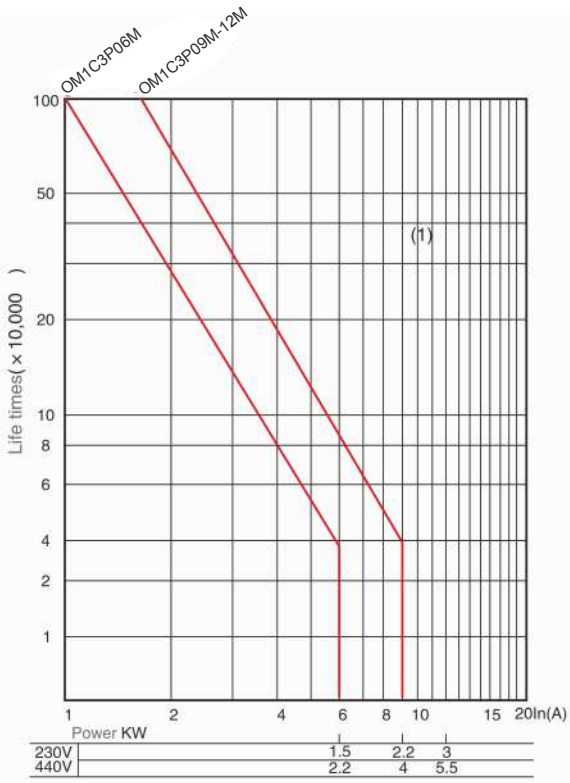
Mini Contactor Curve

Electrical life curve



Service environment
AC–3 (Ue ⩾440V)

1)
The broken line is suitable for
OM1C3P12M contactor



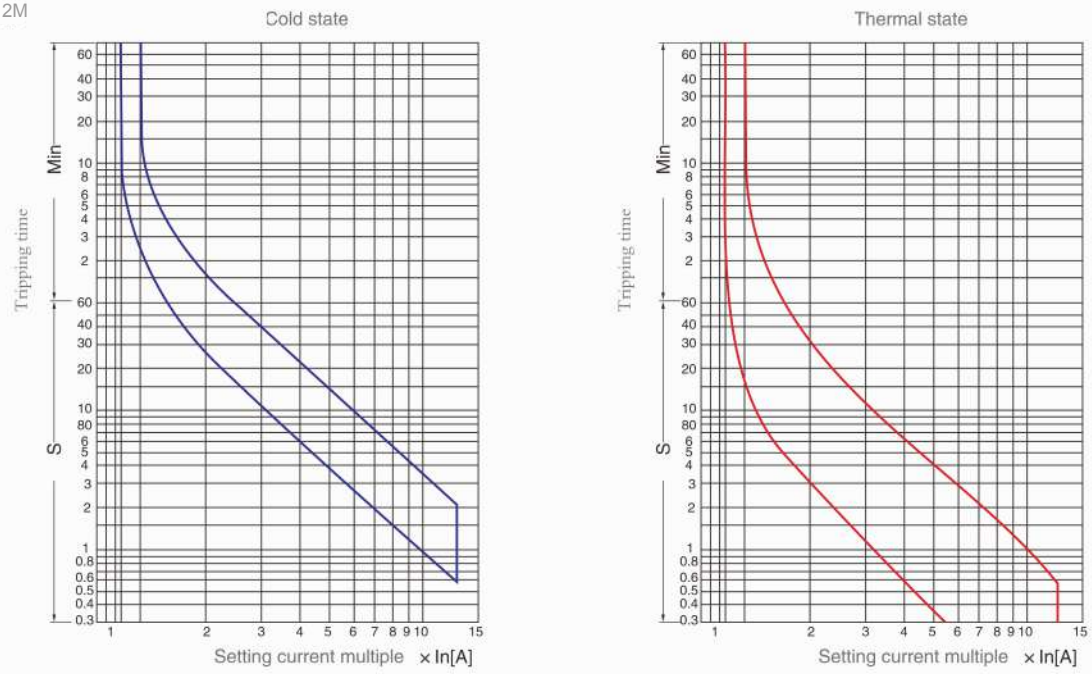
Service environment
AC–3 (Ue ⩾440V)

2)
The broken line is suitable for
OM1C3P12M contactor

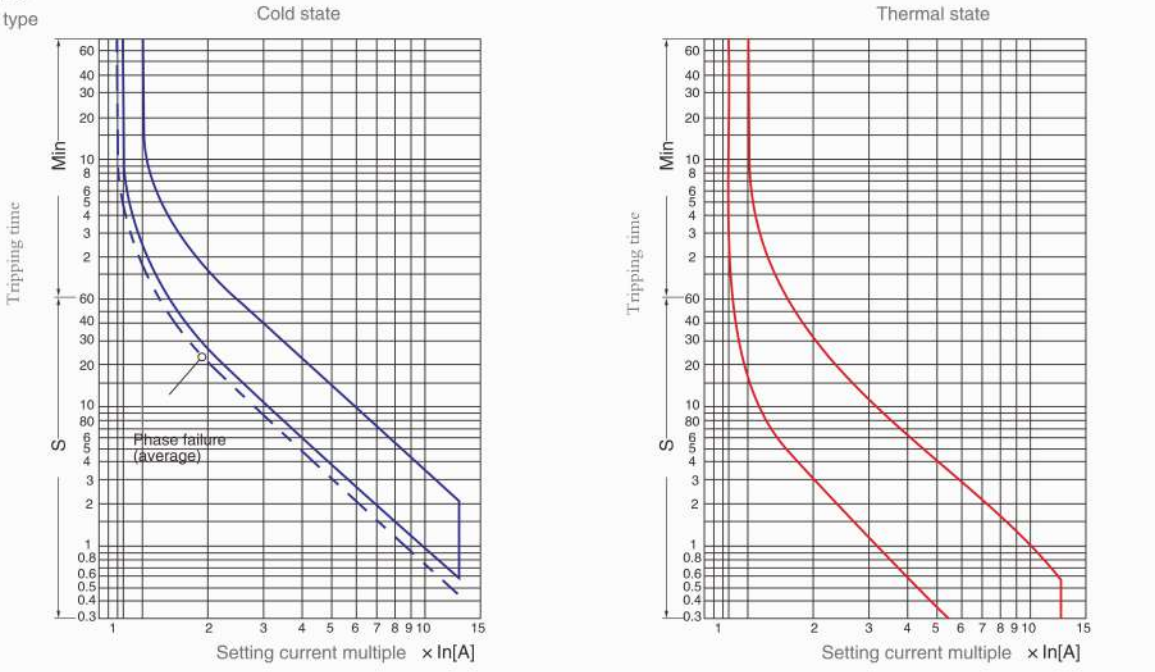
Mini Contactor Curve

Thermal overload relay curve

Standard type
OMH12M



phase–failure
protection type
OMK12M

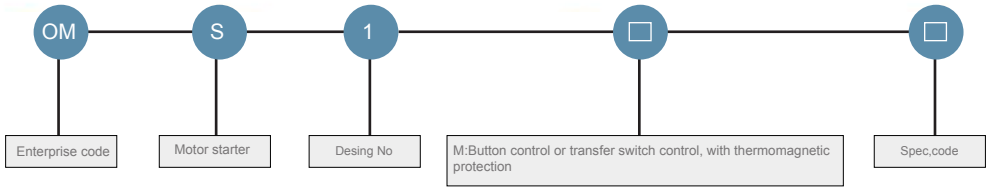


OMS AC Motor Starter

OMS1M0250

OMS2M8000

Model description



OMS1 motor with thermomagnetic protection starter

Button control or transfer switch control								
50/60Hz, category AC–3 Standard rated power of three–phase motor				Thermal tripping Setting range	Magnetic tripping Current	With enclosure Ithe current	Model (Button control)	Weight
230V	400V	415V	440V					kg
kW	kW	kW	kW	A	A	A		0.260
-	-	-	-	0.1...0.16	1.5	0.16	OMS1M0016	0.260
-	-	-	-	0.16...0.25	2.4	0.25	OMS1M0025	0.260
-	-	-	-	0.25...0.40	5	0.40	OMS1M0040	0.260
-	-	-	-	0.40...0.63	8	0.63	OMS1M0063	0.260
-	-	-	0.37	0.63...1	13	1	OMS1M0100	0.260
-	0.37	-	0.55	1...1.6	22.5	1.6	OMS1M0160	0.260
0.37	0.75	0.75	1.1	1.6...2.5	33.5	2.5	OMS1M0250	0.260
0.75	1.5	1.5	1.5	2.5...4	51	4	OMS1M0400	0.260
1.1	2.2	2.2	3	4...6.3	78	6.3	OMS1M0630	0.260
2.2	4	4	4	6...10	138	9	OMS1M1000	0.260
3	5.5	5.5	7.5	9...14	170	13	OMS1M1400	0.260
4	9	9	9	13...18	223	17	OMS1M1800	0.260
5.5	11	11	11	17...23	327	21	OMS1M2300	0.260
5.5	11	11	11	20...25	327	23	OMS1M2500	0.260
7.5	15	15	15	24...32	416	24	OMS1M3200	0.260

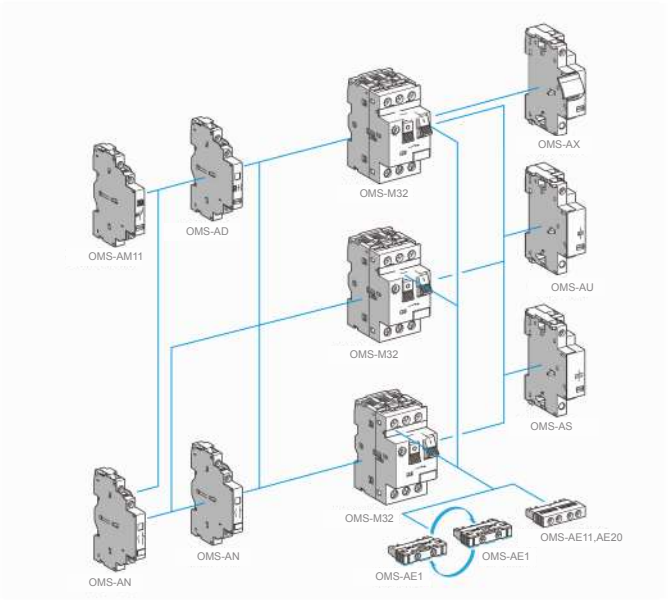
OMS AC Motor Starter

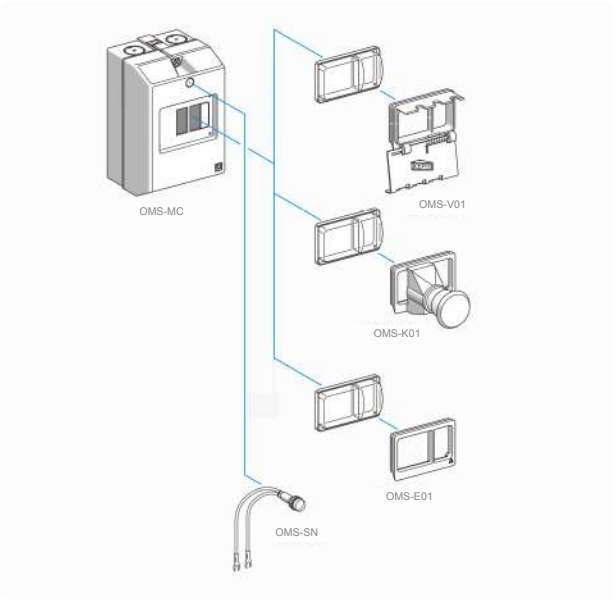
OMS2M8000 motor with thermomagnetic protection starter

Button control							
50/60Hz, category AC-3 Standard rated power of three-phase motor				Thermal tripping Setting range	Magnetic tripping Current Id ± 20%	Model Button control	Weight
230V	415V	415V	440V				
kW	kW	kW	kW	A	A		kg
–	0.37	–	0.55	1…1.6	19.2	OMS2M0016	0.600
0.37	0.75	1.1	1.1	1.6…2.5	30	OMS2M0025	0.600
0.75	1.5	1.5	1.5	2.5…4	48	OMS2M0400	0.600
1.1	2.2	2.2	3	4…6	72	OMS2M0600	0.600
2.2	4	4	4	6…10	120	OMS2M1000	0.600
4	7.5	7.5	7.5	10…16	192	OMS2M1600	0.600
5.5	11	11	11	16…25	300	OMS2M2500	0.600
1	18.5	22	22	25…40	480	OMS2M4000	0.700
15	30	33	33	40…63	756	OMS2M6300	0.700
22	40	45	45	56…80	960	OMS2M8000	0.700

OMS1 Electrical tripping

Type	Installation	Voltage	Model	Weight
LV tripping	Side (1pcs for right of circuit breaker)	110…127V 50Hz	OMSAUC115	0.105
		220…240V 50Hz	OMSAUC225	0.105
		380…415V 50Hz	OMSAUC385	0.105
Shunt tripping	Side(1pcs for right of circuit breaker)	110…127V 50Hz	OMSSD115	0.105
		220…240V 50Hz	OMSSD225	0.105
		380…415V 50Hz	OMSSD385	0.105
LV tripping INRS		110…127V 50Hz	OMS–AX115	0.110
		220…240V 50Hz	OMS–AX225	0.110
		380…415V 50Hz	OMS–AX385	0.110





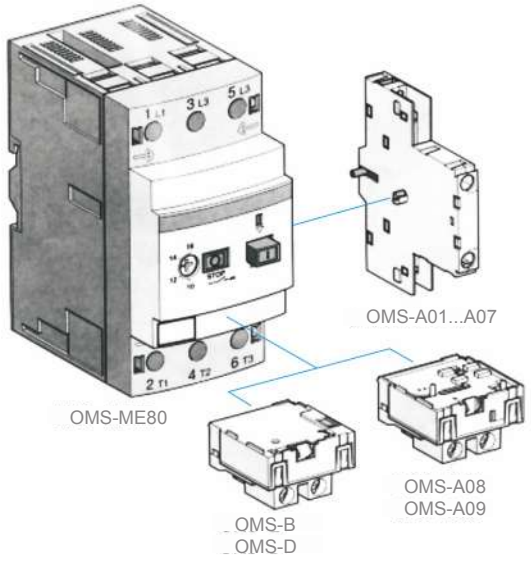
OMS AC Motor Starter

OMS1M3200 Additional contact block

Type	Installation	Contact type	Model	Weight
Instantaneous auxiliarv contact	Front (1pcs for each circuit breaker)	N/O or N/C	OMS –AE1	0.020
		N/O+N/C	OMS –AE11	0.020
		N/O+N/O	OMS –AE20	0.020
	Side (2 pcs at most for left of circuit breaker)	N/O+N/C	OMS –AN11	0.050
		N/O+N/O	OMS –AN20	0.050
Fault signal contact + Instantaneous auxiliary contact	Side(1pcs for left of circuit breaker)	N/O +N/O	OMS –AD1010	0.055
		Fault +N/C	OMS –AD1001	0.055
		N/C +N/O	OMS –AD0110	0.055
		Fault +N/C	OMS –AD0101	0.055
Short–circuit signal contact	Side(1pcs for left of circuit breaker)	C/O Common contact	OMS –AM11	0.045

OMS2 Additional contact block

Type	Installation	Contact type	Type	Weight
Instantaneous auxiliary contact	Side (1pcs for right of circuit breaker)	N/C+N/O	OMS –A01	0.060
		N/O+N/O	OMS –A02	0.060
		N/C+N/O+N/O	OMS –A03	0.070
		N/O+N/O+N/O	OMS –A05	0.070
		N/O+N/O+2 passive terminal block	OMS –A06	0.070
		N/C+N/O+2 passive terminal block	OMS –A07	0.070
Fault signal contact	Inside (1pcs inside the circuit breaker)	N/C	OMS –A08	0.030
		N/O	OMS –A09	0.030



OMS AC Motor Starter

OMS-M80-Electrical-tripping

Type	Installation	Voltage	Type	Weight
V tripping	Inside (1pcs inside the circuit breaker)	110···127V 50Hz	OMS–B11	0.070
		220···240V 50Hz	OMS–B22	0.070
		380···415V 50Hz	OMS–B38	0.070
Shunt tripping	Inside (1pcs inside the circuit breaker)	110···127V 50Hz	OMS–D11	0.070
		220···240V 50Hz	OMS–D22	0.070
		380···415V 50Hz	OMS–D38	0.070

OMS series motor starter
Technical parameters & breaking capacity selection table

Model	Fastener rated current In(A)	Tuning current adjustment range(A)	Rated limit short-circuit breaking capability Icu, rated operation short-circuit breaking capability Ics kA				(mm)
			400/415V		690V		
			Icu	Ics	Icu	Ics	
OMS1M0016	0.16	0.1~0.16	100	100	100	100	40
OMS1M0025	0.25	0.16~0.25	100	100	100	100	40
OMS1M0040	0.4	0.25~0.4	100	100	100	100	40
OMS1M0063	0.63	0.4~0.63	100	100	100	100	40
OMS1M0100	1	0.63~1	100	100	100	100	40
OMS1M0160	1.6	1~1.6	100	100	100	100	40
OMS1M0250	2.5	1.6~2.5	100	100	3	2.25	40
OMS1M0400	4	2.5~4	100	100	3	2.25	40
OMS1M0630	6.3	4~6.3	100	100	3	2.25	40
OMS1M1000	10	6~10	100	100	3	2.25	40
OMS1M1400	14	9~14	15	7.5	3	2.25	40
OMS1M1800	18	13~18	15	7.5	3	2.25	40
OMS1M2300	23	17~23	15	6	3	2.25	40
OMS1M2500	25	20~25	15	6	3	2.25	40
OMS1M3200	32	24~32	10	5	3	2.25	40
OMS2M2500	25	16~25	15	7.5	4	2	50
OMS2M4000	40	25~40	15	7.5	4	2	50
OMS2M6300	63	40~63	15	7.5	4	2	50
OMS2M8000	80	56~80	15	7.5	4	2	50

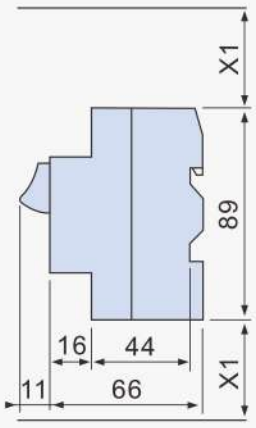
Type of starter		OMS1														
			01	02	03	04	05	06	07	08	10	14	16	20	21	22
Rated value		A	0.16	0.25	0.40	0.63	1	1.6	2.5	4	6.3	10	14	18	23	25
Heat protection stress wire protection at short-circuit condition (PVC insulated copper conductor)																
Min protective cable dimension at 40℃ and max Ics	1mm²		–	–	–	–	–	–	–	–	≤10kA	≤6kA	(1)	(1)	(1)	(1)
	1.5mm²		–	–	–	–	–	–	–	–	≤20kA	≤10kA	(1)	(1)	(1)	(1)
	2.5···6mm²		–	–	–	–	–	–	–	–	–	–	–	–	–	–

OMS AC Motor Starter

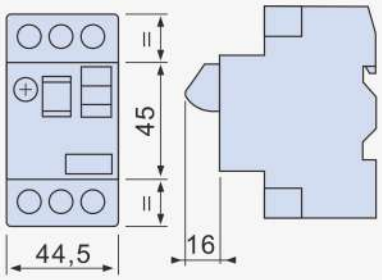
Model	Fastener rated current In(A)	Tuning current adjustment range(A)	The melt current specifiaction of the spare fuse is required only if the expected short-circuit current Icc>Icu The rated limit short-circuit breaking capacity									
			230/240V		400/415V		400V		500V		690V	
			aM A	gl/gG A	aM A	gl/gG A	aM A	gl/gG A	aM A	gl/gG A	aM A	gl/gG A
OMS1M0016	0.16	0.1~0.16	★	★	★	★	★	★	★	★	★	★
OMS1M0025	0.25	0.16~0.25	★	★	★	★	★	★	★	★	★	★
OMS1M0040	0.4	0.25~0.4	★	★	★	★	★	★	★	★	★	★
OMS1M0063	0.63	0.4~0.63	★	★	★	★	★	★	★	★	★	★
OMS1M0100	1	0.63~1	★	★	★	★	★	★	★	★	★	★
OMS1M0160	1.6	1~1.6	★	★	★	★	★	★	★	★	★	20
OMS1M0250	2.5	1.6~2.5	★	★	★	★	★	★	★	★	16	32
OMS1M0400	4	2.5~4	★	★	★	★	★	★	★	★	25	40
OMS1M0630	6.3	4~6.3	★	★	★	★	50	63	50	63	32	40
OMS1M1000	10	6~10	★	★	★	★	50	63	50	63	32	40
OMS1M1400	14	9~14	★	★	63	80	50	63	50	63	40	50
OMS1M1800	18	13~18	★	★	63	80	50	63	50	63	40	50
OMS1M2300	23	17~23	80	100	80	100	63	80	50	63	40	50
OMS1M2500	25	20~25	80	100	80	100	63	80	50	63	40	50
OMS1M3200	32	24~32	80	100	80	100	63	80	50	63	40	50
OMS2M2500	25	16~25	-	-	250	315	-	-	-	-	160	200
OMS2M4000	40	25~40	-	-	250	315	-	-	-	-	160	200
OMS2M6300	63	40~63	-	-	315	400	-	-	-	-	200	250
OMS2M8000	80	56~80	-	-	315	400	-	-	-	-	200	250

Outline dimension and installation dimension

OMS1-M32

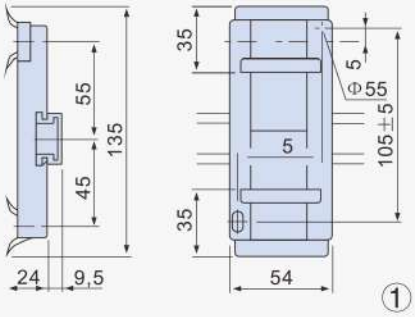


OMS-AX



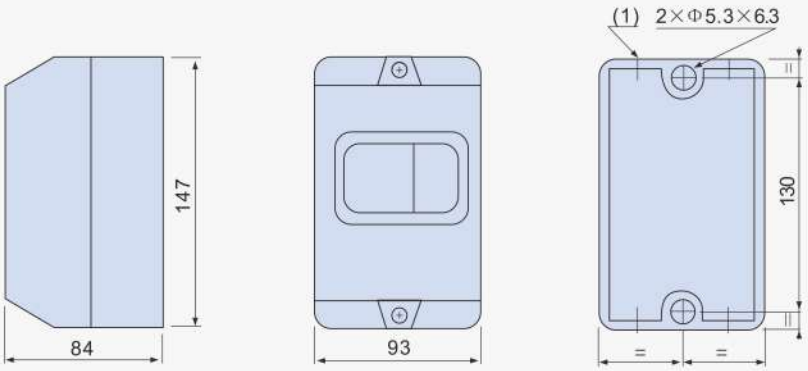
OMS-AF01

OMS-AF01 mounting plate



OMS AC Motor Starter

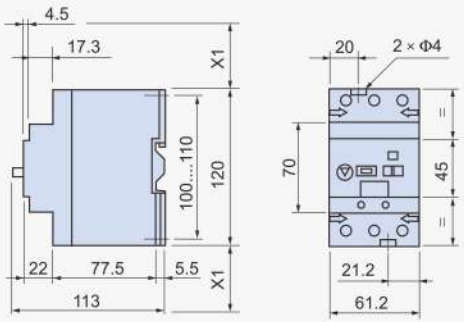
Surface mounting enclosure OMS-MCO



②

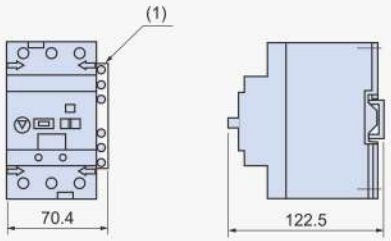
③

Circuit breaker of motor OMS1M8000



Modules of OMS-A01 to A07

On AM1DE200 or AM1–ED201 guide rail

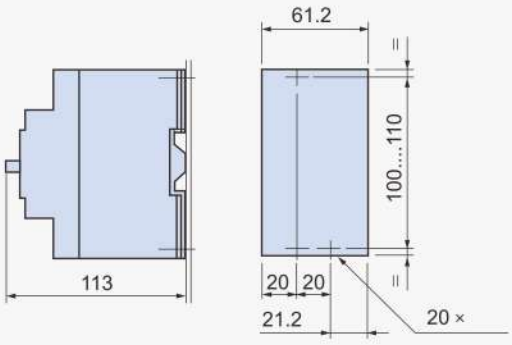


X1= electrical clearance 40mm, suitable for Ue<500V

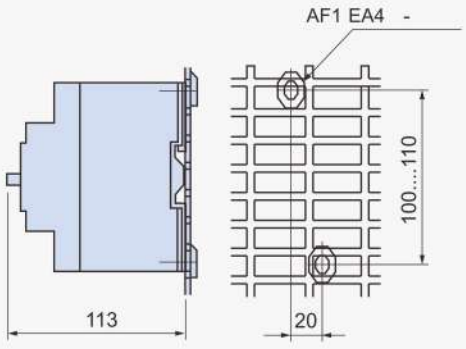
50mm, suitable for Ue<690V

④

Be installed on panel



On multi–hole mounting plate AM1–PA



OM1C Contactor(9A-40A)

OM1C3P022

OM1C4P022

Characteristics

- One frame with four rated current classes
- 3 pairs of main contacts
- Design of anti-electric shock cover
- Installation of guide rail or screw
- Small size: 44mm width(9,12,18,22A)
  68mm width(32,40A)
- The accessory can be mounted on the top or at side.
- Be connected with the thermal overload relay directly

Contactors(AC coil)

Type	Rated current	AC3(IEC60947) 220~240V	AC3(IEC60947) 380~440V	AC3(IEC60947) 500~550V	AC3(IEC60947) 690V	AC1 Ith	Aux. Contacts
OM1C3P009	9A	25KW 11A	4KW 9A	4KW 7A	4KW 5A	25A	1NO+1NC
OM1C4P009						20A	Select
OM1C3P009							
OM1C3P012	12A	3.5KW 13A	5.5KW 12A	7.5KW 12A	7.5KW 9A	25A	1NO+1NC
OM1C4P012						20A	Select
OM1C3P012							
OM1C3P018	18A	4.5KW 18A	7.5KW 18A	7.5KW 13A	7.5KW 9A	40A	1NO+1NC
OM1C4P018						25A	Select
OM1C3P018							
OM1C3P022	22A	5.5KW 22A	11KW 22A	15KW 22A	15KW 18A	40A	1NO+1NC
OM1C4P022						32A	Select
OM1C3P022							
OM1C3P032	32A	7.5KW 32A	15KW 32A	18.5KW 28A	18.5KW 20A	50A	1NO+1NC
OM1C4P032							Select
OM1C3P032							
OM1C3P040	40A	11KW 40A	18.5KW 40A	22KW 32A	22KW 23A	60A	1NO+1NC
OM1C4P040							Select
OM1C3P040							

OM1C Contactor(9A-40A)

OM1C3P040

OM1C4P040

Coil voltage, AC50/60Hz

50Hz：24, 42, 48, 100, 110, 220, 240, 380, 400, 415, 440, 500, 550V

60Hz：24, 48, 110, 120, 208, 220, 240, 277, 380, 440, 480, 600V

Contactors(DC coil)

Type	Rated current	AC3(IEC60947)				AC1 Ith	Aux. Contacts
		220~240V	380~440V	500~550V	690V		
OM1C3P009D	9A	25KW 11A	4KW 9A	4KW 7A	4KW 5A	25A	1NO+1NC
OM1C4P009D						20A	Select
OM1C3P009D							
OM1C3P012D	12A	3.5KW 13A	5.5KW 12A	7.5KW 12A	7.5KW 9A	25A	1NO+1NC
OM1C4P012D						20A	Select
OM1C3P012D							
OM1C3P018D	18A	4.5KW 18A	7.5KW 18A	7.5KW 13A	7.5KW 9A	40A	1NO+1NC
OM1C4P018D						25A	Select
OM1C3P018D							
OM1C3P022D	22A	5.5KW 22A	11KW 22A	15KW 22A	15KW 18A	40A	1NO+1NC
OM1C4P022D						32A	Select
OM1C3P022D							
OM1C3P032D	32A	7.5KW 32A	15KW 32A	18.5KW 28A	18.5KW 20A	50A	1NO+1NC
OM1C4P032D							Select
OM1C3P032D							
OM1C3P040D	40A	11KW 40A	18.5KW 40A	22KW 32A	22KW 23A	60A	1NO+1NC
OM1C4P040D							Select
OM1C3P040D							

Coil voltage, DC

12, 20, 24, 48, 60, 80, 100, 110, 125, 200, 220, 250V

Installation and connection

Installation	Fexed by 35mm guide rail or screw(M4)	
Connection	Main contact	Screw(M4) crimping terminal
		Wire dia:1.25~5.5mm^2/ ϕ 1.6~2.6
		Wire dia:1.25~5.5mm^2/ ϕ 1.6~2.6
	Auxiliary contact/coil	Screw(M3.5) crimping terminal

OMC1 Contactor(9A-40A)

Optional accessory

OMH022 Thermal (bimetal) type

OMH040 Thermal (bimetal) type

AUC-1 auxiliary contact unit
2-pole, side mounting

AUC-2 auxiliary contact unit,
2–pole, top mounting

AUC-4 auxiliary contact unit
4-pole, top mounting

ML-9 Mechanical interlock unit

SD Surge suppressing unit

OM1C Contactor(50A-85A)

OM1C3P085

OM1C4P085

Characteristics

- One frame with four rated current classes
- 3 pairs of main contacts
- Design of anti-electric shock cover
- Installation of guide rail or screw
- The accessory can be mounted on the top or at side.
- Be connected with the thermal overload relay directly

Contactors(AC coil)

Type	Rated current	AC3(IEC60947)				AC1 Ith	Aux. Contacts
		220~240V	380~440V	500~550V	690V		
OM1C3P050	50A	15KW 55A	22KW 50A	30KW 43A	30KW 28A	80A	1NO+1NC
OM1C3P050K							
OM1C3P050							Select
OM1C3P065	65A	18.5KW 65A	30KW 65A	33KW 60A	33KW 35A	100A	1NO+1NC
OM1C3P065K							
OM1C3P065							Select
OM1C3P075	75A	22KW 75A	37KW 75A	37KW 65A	37KW 42A	110A	1NO+1NC
OM1C3P075K							
OM1C3P075							Select
OM1C3P085	85A	25KW 85A	45KW 85A	45KW 75A	45KW 45A	135A	1NO+1NC
OM1C3P085K							
OM1C3P085							Select

OM1C Contactor(50A-85A)

Coil voltage, AC50/60Hz

50Hz：24, 42, 48, 100, 110, 220, 240, 380, 400, 415, 440, 500, 550V

60Hz：24, 48, 110, 120, 208, 220, 240, 277, 380, 440, 480, 600V

Contactors(DC coil)

Type	Rated current	AC3(IEC60947)				AC1 Ith	Aux. Contacts
		220~240V	380~440V	500~550V	690V		
OM1C3P050	50A	15KW 55A	22KW 50A	30KW 43A	30KW 28A	80A	1NO+1NC
OM1C3P050K							
OM1C4P050							Select
OM1C3P065	65A	18.5KW 65A	30KW 65A	33KW 60A	33KW 35A	100A	1NO+1NC
OM1C3P065K							
OM1C4P065							Select
OM1C3P075	75A	22KW 75A	37KW 75A	37KW 65A	37KW 42A	110A	1NO+1NC
OM1C3P075K							
OM1C4P075							Select
OM1C3P085	85A	25KW 85A	45KW 85A	45KW 75A	45KW 45A	135A	1NO+1NC
OM1C3P085K							
OM1C4P085							Select

Coil voltage, DC

24, 48, 60, 80, 100, 110, 125, 200, 220, 250V

Installation and connection

Installation	Fexed by 35mm guide rail or screw(M4)		
Connection	Main contact	50A Frame	Screw(M6) crimping terminal
			Wire dia:2~22mm²
		65/75/85A Frame	Screw crimping terminal
			Wire dia:2~38mm²
	Auxiliary contact/coil		Screw(M3.5) crimping terminal

OM1C Contactor(50A-85A)

Optional accessory

OMH085 Thermal (bimetal) type

AUC-1 auxiliary contact unit
2-pole, side mounting

AUC-2 auxiliary contact unit,
2–pole, top mounting

AUC-4 auxiliary contact unit
4-pole, top mounting

ML-9 Mechanical interlock unit

SD Surge suppressing unit

OM1C Contactor(100A-220A)

OM1C3P100

OM1C3P150

Characteristics
- 3 pairs of main contacts
- Wide coil voltage
- Installation of screw
- The accessory can be mounted at side.
- Be connected with the thermal overload relay directly

Contactors(AC coil)

Type	Rated current	AC3(IEC60947)				AC1 Ith	Aux. Contacts
		220~240V	380~440V	500~550V	690V		
OM1C3P100 OM1C4P100	100A	30KW 105A	55KW 105A	55KW 85A	55KW 65A	150A	2NO+2NC
OM1C3P125 OM1C4P125	125A	37KW 125A	60KW 120A	60KW 90A	60KW 70A	150A	2NO+2NC
OM1C3P150 OM1C4P150	150A	45KW 150A	75KW 150A	90KW 140A	90KW 100A	200A	2NO+2NC
OM1C3P180 OM1C4P180	180A	55KW 180A	90KW 180A	110KW 180A	110KW 120A	230A	2NO+2NC
OM1C3P220 OM1C4P220	220A	75KW 250A	132KW 250A	132KW 200A	132KW 150A	260A	2NO+2NC

OM1C Contactor(100A-220A)

OM1C3P220

OM1C4P220

AC/DC Coil voltage, AC/DC

Nominal voltage	AC50/60Hz	DC
24V	24–25V	24V
48V	48–50V	48V
100/200V	100–240V	100–220V
300V	265–347V	–
400V	380–450V	–
500V	440–575V	–

Installation and connection

Installation	100/125A Frame		Fixed(M4)screw
	150A Frame		Fixed(M5)screw
	180/220A Frame		Fixed(M6)screw
Connection	Main contact	100/125A Frame	Fixed(M8) terminal
			2~60mm²
		150A Frame	Fixed(M8) terminal
			Wire dia：2~100mm²
		180/220A Frame	Fixed(M12) terminal
			Wire dia：2~200mm²
	Auxiliary contact/coil		Screw(M4)crimping terminal

OM1C Contactor(100A-220A)

Optional accessory

OMH100 Thermal(bimetal) type

OMH220 Thermal(bimetal) type

AUC-100 auxiliary contact unit, 2–pole, side mounting

ML-100 Mechanical interlock unit

SD Surge suppressing unit

Terminal cover

IN-100 Insulation barrier

OM1C Contactor(330A-800A)

OM1C3P400

OM1C3P500

Contactors(AC coil)

Type	Rated current	AC3(IEC60947)				AC1 Ith
		220~240V	380~440V	500~550V	690V	
OM1C3P330	330A	100KW 330A	200KW 330A	200KW 310A	200KW 200A	400A
OM1C4P330						
OM1C3P400	400A	110KW 400A	250KW 400A	257KW 400A	280KW 305A	500A
OM1C4P400						
OM1C3P500	500A	147KW 500A	295KW 500A	355KW 450A	355KW 355A	700A
OM1C4P500						
OM1C3P630	630A	200KW 630A	400KW 630A	400KW 600A	450KW 460A	1000A
OM1C4P630						
OM1C3P800	800A	220KW 800A	450KW 800A	450KW 650A	475KW 500A	1600A
OM1C4P800						

Coil voltage, AC/DC

Nominal voltage	AC50/60Hz	DC
100V	100–127V	100–110V
200V	200–240V	200–220V
300V	265–347V	–
400V	380–450V	–
500V	440–575V	–

Installation and connection

Installation	330/400A Frame		Fixed(M8)screw
	500/630/800A Frame		Fixed by screw (M10)
Connection	Main contact	330/400A Frame	Fixed(M12) terminal
			2~200mm²
		500/630/800A Frame	Screw(M16) terminal
			Wire dia:80~325mm²
	Auxiliary contact/coil		Screw(M4)crimping terminal

OM1C Contactor(330A-800A)

OMH630 -

Optional accessory

OM2C Contactor(9A-40A)

OM2C3P022

OM2C3P040

Characteristics

- One frame with four rated current classes
- 3 pairs of main contacts
- Design of anti-electric shock cover
- Installation of guide rail or screw
- Small size: 44mm width(9,12,18,22A)
  68mm width(32,40A)
- The accessory can be mounted on the top or at side.
- Be connected with the thermal overload relay directly

Contactors(AC coil)

Type	Rated current	AC3(IEC60947)				AC1 Ith	Aux. Contacts
		220~240V	380~440V	500~550V	690V		
OM2C3P009	9A	25KW 11A	4KW 9A	4KW 7A	4KW 5A	25A	1NO+1NC
OM2C3P012	12A	3.5KW 13A	5.5KW 12A	7.5KW 12A	7.5KW 9A	25A	1NO+1NC
OM2C3P018	18A	4.5KW 18A	7.5KW 18A	7.5KW 13A	7.5KW 9A	40A	1NO+1NC
OM2C3P022	22A	5.5KW 22A	11KW 22A	15KW 22A	15KW 18A	40A	1NO+1NC
OM2C3P032	32A	7.5KW 32A	15KW 32A	18.5KW 28A	18.5KW 20A	50A	1NO+1NC
OM2C3P040	40A	11KW 40A	18.5KW 40A	22KW 32A	22KW 23A	60A	1NO+1NC

OM2C Contactor(9A-40A)

Coil voltage, AC50/60Hz

50Hz：24, 42, 48, 100, 110, 220, 240, 380, 400, 415, 440, 500, 550V

60Hz：24, 48, 110, 120, 208, 220, 240, 277, 380, 440, 480, 600V

Contactors(DC coil)

Type	Rated current	AC3(IEC60947)				AC1 Ith	Aux. Contacts
		220~240V	380~440V	500~550V	690V		
OM2C3P009D	9A	25KW 11A	4KW 9A	4KW 7A	4KW 5A	25A	1NO+1NC
OM2C3P012D	12A	3.5KW 13A	5.5KW 12A	7.5KW 12A	7.5KW 9A	25A	1NO+1NC
OM2C3P018D	18A	4.5KW 18A	7.5KW 18A	7.5KW 13A	7.5KW 9A	40A	1NO+1NC
OM2C3P022D	22A	5.5KW 22A	11KW 22A	15KW 22A	15KW 18A	40A	1NO+1NC
OM2C3P032D	32A	7.5KW 32A	15KW 32A	18.5KW 28A	18.5KW 20A	50A	1NO+1NC
OM2C3P040D	40A	11KW 40A	18.5KW 40A	22KW 32A	22KW 23A	60A	1NO+1NC

Coil voltage, DC

12, 20, 24, 48, 60, 80, 100, 110, 125, 200, 220, 250V

Installation and connection

Installation	xed by 35mm guide rail or screw (M4)	
Connection	Main contact	Screw(M4) crimping terminal
		Wire dia:1.25~5.5mm²/ ϕ 1.6~2.6
	Auxiliary contact/coil	Screw(M3.5) crimping terminal

OM2C Contactor(9A-40A)

Optional accessory

OMH022 Thermal (bimetal) type

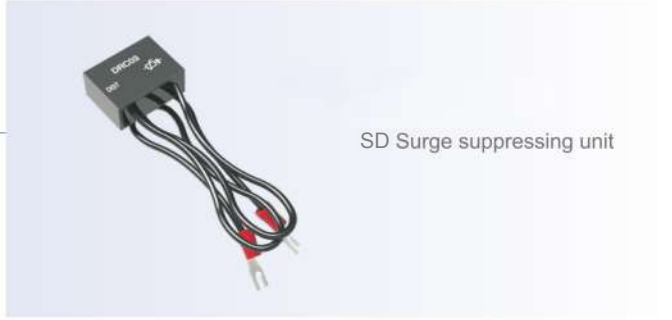
OMH040 Thermal (bimetal) type

AUC-1 auxiliary contact unit
2-pole, side mounting

AUC-2 auxiliary contact unit,
2–pole, top mounting

AUC-4 auxiliary contact unit
4-pole, top mounting

ML-9 Mechanical interlock unit



SD Surge suppressing unit

Contactor, Definite Purpose(10A-40A)

Characteristics
- 3 pairs of main contacts
- Small an light design suitable for use in air conditioners,heaters,refrigerators,etc
- No auxiliary contact
- AC control voltage

OM1C2P10

OM1C2P40

Type	AC3 Ratings			Ith	Contact	
	220-240V	380-440V	500-550V		NO	NC
OM1C2P10	10A	8A	6A	20A	2	–
OM1C2P20	20A	17A	14A	30A	2	–
OM1C2P25	25A	21A	17A	35A	2	–
OM1C2P30	30A	23A	21A	40A	2	–
OM1C2P35	35A	26A	23A	45A	2	–
OM1C2P40	40A	32A	26A	50A	2	–

AC coil 50/60Hz

24,36,42,48,110,115,120,127,200/208,220,230,240,380,400,440,480,500,550V AC

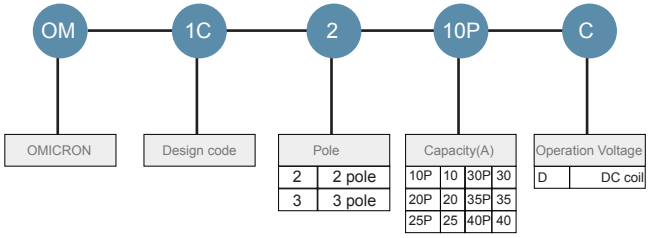
Control coil characteristics

Control voltage	Coil consumption(VA)		Thermal dissipatlon(w)	Operational voltage (V)		Coil current (mA)	Operational time (ms)	
	Inrush	Holding		Pick-up	Drop-out		Closing	Opening
24V 50/60Hz	35	6.0	2	18-20	10-15	263	40	30
48V 50/60Hz	35	6.0	2	36-40	19-27	131	40	30
100V 50/60Hz	35	6.0	2	74-81	39-57	63	40	30
110V 50/60Hz	35	6.0	2	78-90	50-64	57	40	30
120V 50/60Hz	35	6.0	2	90-100	52-66	53	40	30
200V 50/60Hz	35	6.0	2	155-165	80-115	32	40	30
220V 50/60Hz	35	6.0	2	160-175	90-120	29	40	30
230V 50/60Hz	35	6.0	2	165-180	110-130	27	40	30
240V 50/60Hz	35	6.0	2	168-185	110-135	26	40	30

Coil voltage, DC

12, 20, 24, 48, 60, 80, 100, 110, 125, 200, 220, 250V

Type numbering system



Contactor, Definite Purpose(20A-25A)

Characteristics
- Three main contacts
- Small an light design suitable for use in air conditioners, heaters,refrigerators,etc
- No auxiliary contact
- AC control voltage

OM1C3P20

Type	AC3 Ratings			AC4 Ratings			Ith	Contact	
	220-240V	380-440V	500-550V	220-240V	380-440V	500-550V		NO	NC
OM1C2P20	20A	17A	14A	18A	13A	10A	30A	2	-
OM1C3P20								3	-
								2	1
OM1C2P25	25A	21A	17A	20A	14A	12A	35A	2	-
OM1C3P25								3	-
								2	1

AC coil 50/60Hz

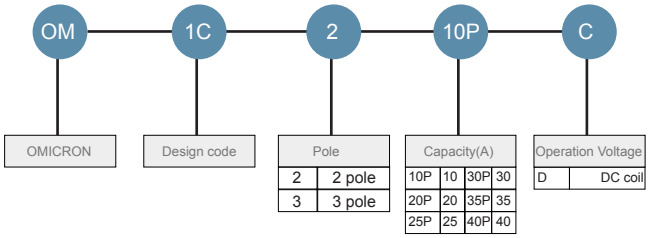
24,36,42,48,110,115,120,127,200/208,220,230,240,380,400,440,480,500,550V AC

Control coil characteristics

Control voltage	Coil consumption(VA)		Thermal dissipation(w)	Operational voltage (V)		Coil current (mA)	Operational time (ms)	
	Inrush	Holding		Pick-up	Drop-out		Closing	Opening
24V 50/60 Hz	72	9.0	3	17-19	12.5-15.5	215	30	20
48V 50/60 Hz	72	9.0	3	32-36	26-30	125	30	20
110V 50/60 Hz	72	9.0	3	75-85	65-75	60	30	20
220V 50/60 Hz	72	9.0	3	150-170	120-145	42	30	20

Coil voltage, DC

12, 20, 24, 48, 60, 80, 100, 110, 125, 200, 220, 250V



Contactor, Definite Purpose(20A-25A)

Selection table(Class 10A)

Three poles (four poles) Max.power of motor						OMH022	OMH040	OMH085	OMH100	OMH150	OMH220	OMH630
220V	380V	415V	440V	550V	660V							
						0.1-0.16						
						0.16-0.25						
					0.37,0.5	0.25-0.4						
				0.37,0.5	0.55,0.75	0.4-0.63						
	0.37,0.5		0.55,0.75	0.75,1	1.1,1.5	0.63-1						
0.37,0.5	0.75,1	1.1,1.5	1.1,1.5	1.1,1.5	1.5,2	1-1.6						
0.75,1	1.5,2	1.5,2	1.5,2	2.2,3	3,4	1.6-2.5						
1.1,1.5	2.2,3	2.2,3	2.2,3	3,4	4,5.5	2.5-4	4-6					
1.5,2	3,4	3.7,5	3.7,5	4,5.5	5.5,7.5	4-6	5-8					
		4,5.5	4,5.5			5-8	6-9					
2.2,3	4,4.5	4,5.5	4,5.5	5.5,7.5	7.5,10	6-9	7-10	7-10				
3,4	5.5,7.5	5.5,7.5	5.5,7.5	7.5,10	10,13.5	7-10	9-13	9-13				
4,5.5	7.5,10	9,12	9,12	10,13.5	15,20	9-13	12-18	12-18				
5.5,7.5	11,15	11,15	11,15			12-18	16-22	16-22				
5.5,75	11,15	11,15	11,15	15,20	18.5,25	16-22	18-26	18-26				
7.5,10	15,20	15,20	15,20	18.5,25	22,30		24-36	24-36				
	15,20			18.5,25			28-40	28-40				
11,15	22,30	25,35	25,35	30,40	37,50			34-50	34-50	34-50		
15,20	25,35	30,40	30,40	37,50	45,60			45-65	39-57	39-57		
18.5,25	30,40	37,50	37,50	45,60	55,75			54-75	43-65	43-65		
22,30	37,50	45,60	45,60	55,75	63,85			63-85	54-80	54-80		
25,35	51,70	55,75	59,80	63,85	90,125				65-100	65-100	65-100	
30,40	59,80	59,80	63,85	80,110	110,150				85-125	85-125	85-125	
45,60	80,100	80,110	90,125	100,135	129,175					100-150	100-160	
55, 75	90, 125	100, 135	110, 150	110, 150	160, 220						120-180	
63, 85	110, 150	129, 175	140, 190	160, 220	200, 270						160-240	
80,110	150,205	160,220	160,220	200,270	257, 350							200-330
110,150	185,250	200,270	220,300	257,350	335, 455							300-500
180,245	315,430	355,480	375,510	425,580	500, 680							380-630
Contactor used with thermal overload relay						OM1C3P009D OM1C3P012D OM1C3P018D OM1C3P022D	OM1C3P032D OM1C3P040D	OM1C3P050D OM1C3P065D OM1C3P075D OM1C3P085D	OM1C3P100D OM1C3P125D	OM1C3P150D	OM1C3P180D OM1C3P220D	OM1C3P330D OM1C3P400D OM1C3P500D OM1C3P630D

Thermal Overload Relays

Selection table(Class 20A)

Three poles (four poles) Max.power of motor						OMK022/L 22/L	OMK040/L 40/L	OMK085/L 85/L	OMK100/L 100/L	OMK150/L 150/L	OMK220/L 220/L	OMK630/L 630/L
220V	380V	415V	440V	550V	660V							
0.37,0.5	0.75,1	1.1,1.5	1.1,1.5	1.1,1.5	1.5,2	1.16						
0.75,1	1.5,2	1.5,2	1.5,2	2.2,3	3,4	16-2.5						
1.1,1.5	2.2,3	2.2,3	2.2,3	3,4	4,5.5	2.5-4	4-6					
1.5,2	3,4	3.7,5	3.7,5	4,5.5	5.5,7.5	4-6	5-8					
		4,5.5	4,5.5			5-8	6-9					
2.2,3	4,4.5	4,5.5	4,5.5	5.5,7.5	7.5,10	6-9	7-10	7-10				
3,4	5.5,7.5	5.5,7.5	5.5,7.5	7.5,10	10,13.5	7-10	9-13	9-13				
4,5.5	7.5,10	9,12	9,12	10,13.5	15,20	9-13	12-18	12-18				
5.5,7.5	11,15	11,15	11,15			12-18	16-22	16-22				
5.5,75	11,15	11,15	11,15	15,20	18.5,25	16-22	18-26	18-26				
7.5,10	15,20	15,20	15,20	18.5,25	22,30		24-36	24-36				
	15,20			18.5,25			28-40	28-40				
11,15	22,30	25,35	25,35	30,40	37,50			34-50	34-50	34-50		
15,20	25,35	30,40	30,40	37,50	45,60			45-65	39-57	39-57		
18.5,25	30,40	37,50	37,50	45,60	55,75			54-75	43-65	43-65		
22,30	37,50	45,60	45,60	55,75	63,85			63-85	54-80	54-80		
25,35	51,70	55,75	59,80	63,85	90,125				65-100	65-100	65-100	
30,40	59,80	59,80	63,85	80,110	110,150				85-125	85-125	85-125	
45,60	80,100	80,110	90,125	100,135	129,175					100-150	100-160	
55, 75	90, 125	100, 135	110, 150	110, 150	160, 220						120-180	
63, 85	110, 150	129, 175	140, 190	160, 220	200, 270						160-240	
80,110	150,205	160,220	160,220	200,270	257, 350							200-330
110,150	185,250	200,270	220,300	257,350	335, 455							300-500
180,245	315,430	355,480	375,510	425,580	500, 680							380-630
Contactor used with thermal overload relay						OM1C3P009D OM1C3P012D OM1C3P018D OM1C3P022D	OM1C3P032D OM1C3P040D	OM1C3P050D OM1C3P065D OM1C3P075D OM1C3P085D	OM1C3P100D OM1C3P125D	OM1C3P150D	OM1C3P180D OM1C3P220D	OM1C3P330D OM1C3P400D OM1C3P500D OM1C3P630D

Thermal Overload Relays

OMH022, OMK022L

Characteristics

-Be mounted with OM1C-9,12,18,22 contactor directly

-Be mounted by guide rail or screw hrough mounting support(MU22H)

-Small size:44mm width

-1No+1NC tripping contact

-OMH02--- Class 10A tripping standard

-OMK022/L--- Class 20A tripping standard

-Standard type:OMH

-Phase-failure protection type:OMK

-Applicable ambient temperature:-5-40oC

-Manual/Automatic reset

-Design of trip free

-Bimetal element type

OMH022
OMK022/L

OMC3P009
OMC3P012
OMC3P018
OMC3P022

MU22H

Independent mounting

Direct mounting

OMK022

Current range	Phase-failure protection type	Standard type
0.1-0.16	OMK022 0.16	OMH022 0.16
0.16-0.25	OMK022 0.25	OMH022 0.25
0.25-0.4	OMK022 0.40	OMH022 0.40
0.4-0.63	OMK022 0.63	OMH022 0.63
0.63-1	OMK022 1.00	OMH022 1.00
1-1.6	OMK022 1.60	OMH022 1.60
1.6-2.5	OMK022 2.50	OMH022 2.50
2.5-4	OMK022 4.00	OMH022 4.00
4-6	OMK022 6.00	OMH022 6.00
5-8	OMK022 8.00	OMH022 8.00
6-9	OMK022 9.00	OMH022 9.00
7-10	OMK022 10.0	OMH022 10.0
9-13	OMK022 13.0	OMH022 13.0
12-18	OMK022 18.0	OMH022 18.0
16-22	OMK022 22.0	OMH022 22.0

Current range	Class 20A
1-1.6	OMK022/L 1.60
1.6-2.5	OMK022/L 2.50
2.5-4	OMK022/L 4.00
4-6	OMK022/L 6.00
5-8	OMK022/L 8.00
6-9	OMK022/L 9.00
7-10	OMK022/L 10.0
9-13	OMK022/L 13.0
12-18	OMK022/L 18.0
16-22	OMK022/L 22.0

Connection

Main terminal (load)	Screw(M4) crimping terminal
	Wire dia: 1.25~5.5mm²/1.6~2.6
Auxiliary contact	Screw(M3.5) crimping terminal

Thermal Overload Relays

OMH040 OMK040/L

Characteristics
-Be mounted with OM1C3P022,040 contactor directly

-Be mounted by guide rail or screw hrough mounting support(MU40H)

-Small size:53mm width

-1No+1NC tripping contact

-OMH040 --- Class 10A tripping standard

-OMK040/L --- Class 20A tripping standard

-Standard type:OMH

-Phase-failure protection type:OMH

-Applicable ambient temperature:-5-40oC

-Manual/Automatic reset

-Design of trip free

-Bimetal element type

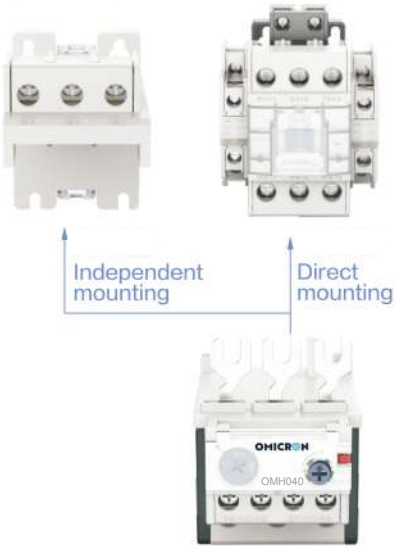
OMH040
OMK040/L

Current range	Phase-failure protection type	Standard type
4-6	OMK040 6.00	OMH040/3 6.00
5-8	OMK040 8.00	OMK040/3 8.00
6-9	OMK040 9.00	OMK040/3 9.00
7-10	OMK040 10.0	OMK040/3 10.0
9-13	OMK040 13.0	OMK040/3 13.0
12-18	OMK040 18.0	OMK040/3 18.0
16-22	OMK040 22.0	OMK040/3 22.0
18-26	OMK040 26.0	OMK040/3 26.0
24-36	OMK040 36.0	OMK040/3 36.0
28-40	OMK040 40.0	OMK040/3 40.0

Current range	Class 20A
4-6	OMK040/L 6.00
5-8	OMK040/L 8.00
6-9	OMK040/L 9.00
7-10	OMK040/L 10.0
9-13	OMK040/L 13.0
12-18	OMK040/L 18.0
16-22	OMK040/L 22.0
18-26	OMK040/L 26.0
24-36	OMK040/L 36.0
28-40	OMK040/L 40.0

MU40H

OM1C3P032
OM1C3P040



OMH040

Connection

Main terminal (load)	Screw(M4) crimping terminal
	Wire dia: 1.25~5.5mm²/1.6~2.6
Auxiliary contact	Screw(M3.5) crimping terminal

Thermal Overload Relays

OMH085, OMK085/L

Characteristics

-Be mounted with OM1C3P050,065,075,085 contactor directly

-Be mounted by guide rail or screw hrough mounting support(MU85H)

-Small size:70mm width

-1No+1NC tripping contact

-OMH040--- Class 10A tripping standard

-OMK040 /L--- Class 20A tripping standard

-Standard type:OMH

-Phase-failure protection type:OMK

-Applicable ambient temperature:-5-40oC

-Manual/Automatic reset

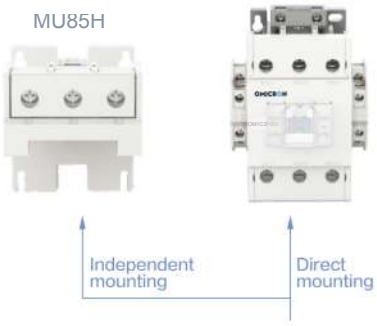
-Design of trip free

-Bimetal element type

OMH085
OMK085/L

OM1C3P050
OM1C3P065
OM1C3P075
OM1C3P085

MU85H



OMH085

Current range	Phase-failure protection type	Standard type
7-10	OMK085 10.0	OMK085/3 10.0
9-13	OMK085 13.0	OMK085/3 13.0
12-18	OMK085 18.0	OMK085/3 18.0
16-22	OMK085 22.0	OMK085/3 22.0
18-26	OMK085 26.0	OMK085/3 26.0
24-36	OMK085 36.0	OMK085/3 36.0
28-40	OMK085 40.0	OMK085/3 40.0
34-50	OMK085 50.0	OMK085/3 50.0
45-65	OMK085 65.0	OMK085/3 65.0
54-75	OMK085 75.0	OMK085/3 75.0
63-85	OMK085 85.0	OMK085/3 85.0

Current range	Class 20A
7-10	OMK085/L 10.0
9-13	OMK085/L 13.0
12-18	OMK085/L 18.0
16-22	OMK085/L 22.0
18-26	OMK085/L 26.0
24-36	OMK085/L 36.0
28-40	OMK085/L 40.0
34-50	OMK085/L 50.0
45-65	OMK085/L 65.0
54-75	OMK085/L 75.0
63-85	OMK085/L 85.0

Connection

Main terminal (load)	50A Below	Screw(M6) crimping terminal
		Wire dia: 2~22mm²
	65A Below	Screw(M8) crimping terminal
		Wire dia: 2~38mm²
		Screw(M16) crimping terminal
		Wire dia: 80~325mm²
Auxiliary contact		Screw(M3.5) crimping terminal

Thermal Overload Relays

OMH100, OMK100/L

Characteristics
-Be mounted with contactor directly through base plate

-OMH100 and OM1C3P100,125 contactor(100,125AF)

-OMH 150 and OM1C3P150

-1NO+1NC tripping contact

-OMH100 ---Class 10A tripping standard

-OMK100/L ---Class 20A tripping standard

-Over-current / Phase-failure protection

-Applicable ambient temperature:-5-40oC

-Manual/Automatic reset

-Design of trip free

-Bimetal element type

OMH100
OMK100/L

OMH150
OMK150/L

100AF

Current range	Phase-failure protection type	Standard type	Class 20A
34-50	OMK100 50.0	OMH100/3 50.0	OMK100/L 50.0
39-57	OMK100 57.0	OMH100/3 57.0	OMK100/L 57.0
43-65	OMK100 65.0	OMH100/3 65.0	OMK100/L 65.0
54-80	OMK100 80.0	OMH100/3 80.0	OMK100/L 80.0
65-100	OMK100 100	OMH100/3 100	OMK100/L 100
85-125	OMK100 125	OMH100/3 125	OMK100/L 125

150AF

Current range	Phase-failure protection type	Standard type	Class 20A
34–50	OMK150 50.0	OMH150/3 50.0	OMH150/L 50.0
39–57	OMK150 57.0	OMH150/3 57.0	OMH150/L 57.0
43–65	OMK150 65.0	OMH150/3 65.0	OMH150/L 65.0
54–80	OMK150 80.0	OMH150/3 80.0	OMH150/L 80.0
65–100	OMK150 100	OMH150/3 100	OMH150/L 100
85–125	OMK150 125	OMH150/3 125	OMH150/L 125
100–150	OMK150 150	OMH150/3 150	OMH150/L 150

Connection

Main terminal (load)	Screw(M8) crimping terminal
	Wire dia: 2~100mm^2
Auxiliary contact	Screw(M4) crimping terminal

Thermal Overload Relays

OMH220, OMK220/L

Characteristics
-Be contactor with contactor directly

-OMH220 and OM1C3P100,240 contactor(100,125AF)

-1NO+1NC tripping contact

-OMH220 ---Class 10A tripping standard

-OMK220/L ---Class 20A tripping standard

-Standard type:OMH

-Phase-failure protection type:OMK

-Applicable ambient temperature:-5-40oC

-Design of trip free

-Bimetal element type

-CT ation type

OMH220
OMH220/L

220AF

Current range	Phase-failure protection type	Standard type	Class 20A
65-100	OMK220 100	OMH220/3 100	OMK220/L 100
85-125	OMK220 125	OMH220/3 125	OMK220/L 125
100-160	OMK220 160	OMH220/3 160	OMK220/L 160
120-180	OMK220 180	OMH220/3 180	OMK220/L 180
160-240	OMK220 240	OMH220/3 240	OMK220/L 240

Connection

Main terminal (load)	OMH220	Screw(M10) crimping terminal
		Wire dia: 2~150mm²
Auxiliary contact		Screw(M3.5) crimping terminal

OMH630, OMK630/L

Characteristics
- Be contactor with contactor directly
- OMH630 and OM1C3P300,630 contactor(100,125AF)
- 1NO+1NC tripping contact
- Standard type: OMH
- Phase-failure protection type: OMK
- Applicable ambient temperature: -5?40C

630AF

Current range	Phase-failure protection type	Standard type	Class 20A
220-300	OMK630 330	OMK630/3 330	OMK630/L 330
300-500	OMK630 500	OMK630/3 500	OMK630/L 500
380-630	OMK630 630	OMK630/3 630	OMK630/L 630

Connection

Main terminal (load)	Screw(M16) crimping terminal
	Wire dia: 80~325mm²
Auxiliary contact	Screw(M3.5) crimping terminal

3P Reversing Contactor

Characteristics
- 3 pairs of main contacts
- Mechanical interlock
- Design of anti-electric shock cover
- Fixed by guide rail or screw
- The accessory can be mounted on the top or at side.
- Be connected with the thermal overload relay directly

Three pole reversing contactors(AC coil)

Rated current	AC3(IEC60947)				Aux. Contacts (Each contactor)	Type
	220~240V	380~440V	500~550V	690V		
9A	2.5kW 11A	4kW 9A	4kW 7A	4kW 5A	1NO+1NC	OM1RC3P009
12A	3.5kW 13A	5.5kW 12A	7.5kW 12A	7.5kW 9A	1NO+1NC	OM1RC3P012
18A	4.5kW 18A	7.5kW 18A	7.5kW 13A	7.5kW 9A	1NO+1NC	OM1RC3P018
22A	5.5kW 22A	11kW 22A	15kW 22A	15kW 18A	1NO+1NC	OM1RC3P022
32A	7.5kW 32A	15kW 32A	18.5kW 28A	18.5kW 20A	1NO+1NC	OM1RC3P032
40A	11kW 40A	18.5kW 40A	22kW 32A	22kW 23A	1NO+1NC	OM1RC3P040
50A	15kW 55A	22kW 55A	30kW 43A	30kW 28A	1NO+1NC	OM1RC3P050
65A	18.5kW 65A	30kW 65A	33kW 60A	33kW 35A	1NO+1NC	OM1RC3P065
75A	22kW 75A	37kW 75A	37kW 64A	37kW 42A	1NO+1NC	OM1RC3P075
85A	25kW 85A	45kW 85A	45kW 75A	45kW 45A	1NO+1NC	OM1RC3P085

Coil voltage, AC50/60Hz

50Hz: 24, 42, 48, 100, 110, 220, 240, 380, 400, 415, 440, 500, 550V
60Hz: 24, 48, 110, 120, 208, 220, 240, 277, 380, 440, 480, 600V

3P Reversing Contactor

Optional accessory

AUC-1 auxiliary contact unit
2-pole, side mounting

AUC-2 auxiliary contact unit,
2–pole, top mounting

AUC-4 auxiliary contact unit
4-pole, top mounting

SD Surge suppressing unit

3P Reversing Contactor

Characteristics
- 3 pairs of main contacts
- Mechanical interlock
- Wide coil voltage
- Fixed by screw
- The accessory can be mounted at side.
- Be connected with the thermal overload relay directly

Three pole reversing contactors(AC coil)

Rated current	AC3(IEC60947)				Aux. Contacts (Each contactor)	Type
	220~240V	380~440V	500~550V	690V		
100A	30kW 105A	55kW 105A	55kW 85A	4kW 5A	1NO+1NC	OM1RC3P100
125A	37kW 125A	60kW 120A	60kW 90A	7.5kW 9A	1NO+1NC	OM1RC3P125
150A	45kW 150A	75kW 150A	90kW 140A	7.5kW 9A	1NO+1NC	OM1RC3P150
180A	55kW 180A	90kW 180A	110kW 180A	15kW 18A	1NO+1NC	OM1RC3P180
220A	75kW 250A	132kW 250A	132kW 200A	18.5kW 20A	–	OM1RC3P220
330A	100kW 330A	200kW 330A	200kW 310A	22kW 23A	–	OM1RC3P330
400A	110kW 400A	250kW 400A	257kW 400A	30kW 28A	–	OM1RC3P400
500A	147kW 500A	295kW 500A	355kW 450A	33kW 35A	–	OM1RC3P500
630A	200kW 630A	400kW 630A	400kW 600A	37kW 42A	–	OM1RC3P630
800A	220kW 800A	450kW 800A	450kW 650A	45kW 45A	–	OM1RC3P800

3P Reversing Contactor

Coil voltage, OM1C

24, 48, 100/200, 300, 400, 500V(UK-100, 125, 150, 180, 220) 100/200, 300, 400, 500V (OM1C-330,400)
100/200, 300, 400, 500V (OM1C-500,630,800)

Nominal voltage	AC50/60Hz	AC50/60Hz
24V	24-25V	24V
48V	48-50V	48V
100V	100-127V	100-110V
200V	200-240V	200-220V
100/200V	100-240V	100-220V
300V	265-347V	
400V	380-450V	
500V	440-575V	

Optional accessory

AUC-100 auxiliary contact unit, 2–pole, side mounting

SD Surge suppressing unit

Terminal cover

IB-100 Insulation barrier

Intermediate Relays

Characteristics
- High reliability

With special silvering contact, improving the safety of relay
- Long lifetime

More than 100 mi0llion cycles for mechanical life, and 50-100 million cycle for electric life under ratedworking current.
- Mounted on track

All models can be installed on 35mm standard rails
- Protected with safety cover

Rated ultimate

Model			OM1RP4(D)		OM1RP6(D)	OM1RP8(D)
Contact constitution			4NO, 3NO1NC, 2NO2NC, 1NO3NC, 4NC		6NO, 5NO1NC, 4NO2NC, 3NO3NC, 2NO4NC	8NO, 7NO1NC, 6NO2NC, 5NO3NC, 4NO4NC
Rated insullation voltage(Ui)			690V			
Conventional thermal current(Ith)			16A			
Rated AC	Grade		AC15	AC15 class(Inductive load)	AC12	AC12 class(Inpedance load)
	Rated current(A)	AC110V	6			10
		AC220V	3			8
		AC440V	1.5			5
		AC550V	1.2			5
	Short–circuit breaking current(A)	AC110V	66			66
		AC220V	33			33
		AC440V	16.5			16.5
		AC550V	13.2			13.2
Rated DC	Grade		DC13	DC13 class(Inductive load)	DC12	DC12 class(Inpedance load)
	Rated current(A)	DC24V	3			5
		DC48V	1.5			3
		DC110V	1.1			2.5
		DC220V	0.55			1
	Short–circuit breaking current(A)	DC24V	3.7			–
		DC48V	1.8			–
		DC110V	1.4			–
		DC220V	0.7			–
Life(10000 times)	Electrical		50			25
	Mechnical		2, 000			
Frequency	Times/hour		1, 800			

Intermediate Relays

Optional coil rating

1) AC coil rating

Type	Rated voltage	
	50HZ	60HZ
OM1RP4 OM1RP6 OM1RP8	24V, 42V, 48V, 100V, 110V, 220V, 240V, 380V, 400V, 440V, 500V, 550V	24V, 48V, 100V, 120V, 208V, 220V, 240V, 277V, 380V, 440V, 480V, 600V

2) DC coil rating

Type	Rated voltage
OM1RP4D OM1RP6D OM1RP8D	12V, 20V, 24V, 48V, 60V, 80V, 100V, 110V,125V,200V,220V,250V

1.

Note：the coils are apart in OM1C3P009-085 at 50Hz and 60Hz.

2.

The using range of operating coil voltage refers to the rating coil of between 0.85 and 1.1 times of rated voltage.

Optional coil rating

1) AC coil rating (AC220V, 60Hz criterion)

Type		Coil consumption (VA)		Heat consu-mption	Operating voltage		Operating time			
		Inrush	Sealed		Closing voltage	Off voltage	NO contact switches in while the power on of the powered	NC contact switch while the coil is not powered	NO contact switches in while the power on of the powered	NC contact switch while the coil is not powered
OM1RP4	4NO	95	9	2	141–156	105–125	10–17	–	7–13	–
	2NO2NC				138–148	110–130	8–15	6–15	7–13	8–15
OM1RP6	6NO				145–160	100–120	10–17	–	7–13	–
	3NO3NC				140–155	105–125	10–16	5–13	7–13	8–15
OM1RP8	8NO				150–160	90–110	10–18	–	7–13	–
	4NO4NC				148–158	95–115	10–16	5–13	7–13	8–15

DC coil rating

Type		Coil consumption (VA)		Heat consu-mption	Operating voltage		Operating time			
		Inrush	Sealed		Closing voltage	Off voltage	NO contact switches in while the power on of the powered	NC contact switch while the coil is not powered	NO contact switches in while the power on of the powered	NC contact switch while the coil is not powered
OM1RP4D	4NO	9	9	50	65–75	15–35	45–55	–	7–13	–
	2NO2NC				63–73	18–38	40–50	20–30	7–13	13–19
OM1RP6D	6NO				68–78	15–35	45–55	–	7–13	–
	3NO3NC				63–73	18–38	40–50	20–30	7–13	8–15
OM1RP8D	8NO				70–80	15–35	45–55	–	7–13	–
	4NO4NC				63–73	18–38	40–50	20–30	7–13	13–19

Performance

Model	NO. Poles	Frequency (times/hour)	Mechnical life	Electrical life					
				AC–15	Type load(A)	AC–12	Type load(A)	DC13,12	Type load(A)
				220V	440V	220V	440V	12–220V	
OM1RP4,4D	4	1,800	1,000	50	50	25	25	50	
OM1RP6,6D	6	1,800	1,000	50	50	25	25	50	
OM1RP8,8D	8	1,800	1,000	50	50	25	25	50	

Switchover Capactior Contactor

Characteristics

- When switchover capactior contactor switches in, the capacitor must discharge before charging.(Max.terminal residual voltage).
- The rated current of gG type fuse must be 1.5-2 times of that of circuit to effectively avoid short circuit.
- Switchover capacitor unit shall be connected with contactor by using impedance line.

Description

-OM1C(D)-C:

IEC60947-4941, UL CSA

- Swichover capacitor can switch over 3-phase single-or multiple-stage capactior bank. In conformity with IEC-69047-4941, UL and CSA.

Operating parameter

Operating frequency(times/hours)	OM1CC3P09,12,18,22,32,40	2X40	Times/hour
	OM1CC3P50,65,75,85	100	Times/hour
Electrical life (times)	OM1CC3P09,12,18,22,32,40	200，000	Times
	OM1CC3P50,65,75,85	100，000	Times

Rated parameter

Model	Max.power of motor (kvar)			Rated current	Delayapplicable
	220–240V	400–440V	550-600V		
OM1CC3P09	5	9.7	14	14	AC-9
OM1CC3P12	6.5	12.5	18	18	AC-9
OM1CC3P18	8.5	16.7	24	24	AC-9
OM1CC3P22	10	18	26	26	AC-9
OM1CC3P32	15	25	36	36	AC-9
OM1CC3P40	20	33.3	48	48	AC-9
OM1CC3P50	22	40	58	58	AC-50
OM1CC3P65	25	45.7	66	66	AC-50
OM1CC3P75	29.7	54	78	78	AC-50
OM1CC3P85	35	60	92	92	AC-50

Note: Ambient temperature below 55℃

When the operating times is less than an hour, the mean temperature of environment shall be limited around 45℃ according to IEC70 and 831

Switchover Capactior Contactor

Side on type

Model	Pole	Contact configuration	Combined contactors
AUC-1	2	1NO1NC	OM1C3P009-OM1C3P085
AUC-100	4	1NO1NC	OM1C3P100-OM1C3P220

Head on type

Type	Pole	Contact configuration	Combined contactors
AUC-2	2	2NO,1NO1NC	OM1C3P009-OM1C3P085
AUC-4	4	4NO,3NO1NC,2NO2NC,1NO3NC,4NC	

Ratings

Model		Rated current(A)																Thermal current
		AC 15 duty				DC 13 duty				AC 12 duty				DC 12 duty				
		110V	220V	440V	550V	24V	48V	110V	220V	110V	220V	440V	550V	24V	48V	110V	220V	
Head on	AUC-2	6	3	1.5	1.2	3	1.5	0.55	0.27	10	8	5	5	5	3	2.5	1	16
	AUC-4	6	3	1.5	1.2	3	1.5	0.55	0.27	10	8	5	5	5	3	2.5	1	16
Side on	AUC-1	6	5	3	3	3	1.5	0.55	0.27	10	8	5	5	5	3	2.5	1	16
	AUC-100	6	5	3	3	6	3	1.2	0.2	10	10	5	5	5	3	1.5	0.25	16

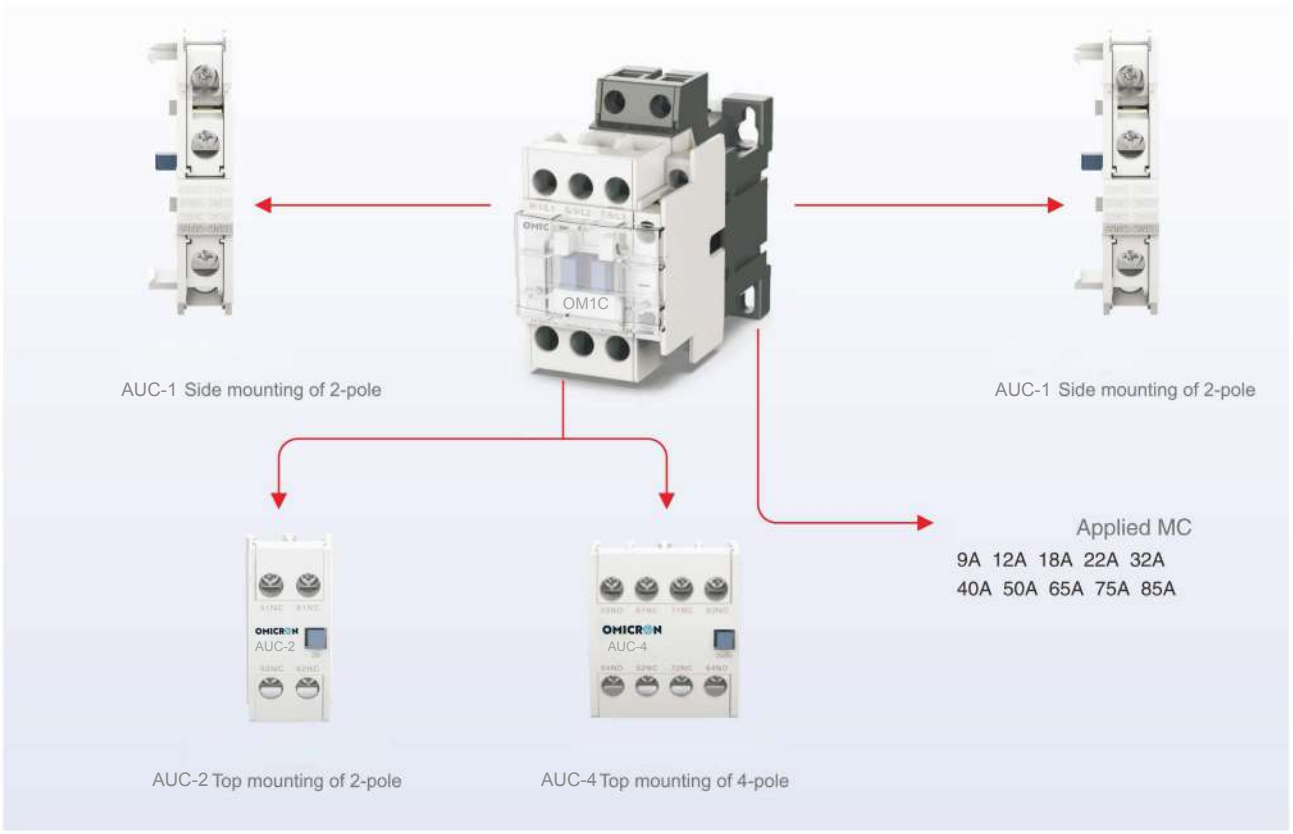
Performance

Model	Frequency (times/hour)	Mechanical (10000 times)	Electrical life (10000 times)				
			AC–15		AC–12		DC13, 12 Type
			220V	440V	220V	440V	24~220V
AUC-2	1800	2000	50	50	25	25	50
AUC-4	1800	2000	50	50	25	25	50
AUC-1	1800	2500	50	50	25	25	50
AUC-100	1800	1000	50	50	25	25	50

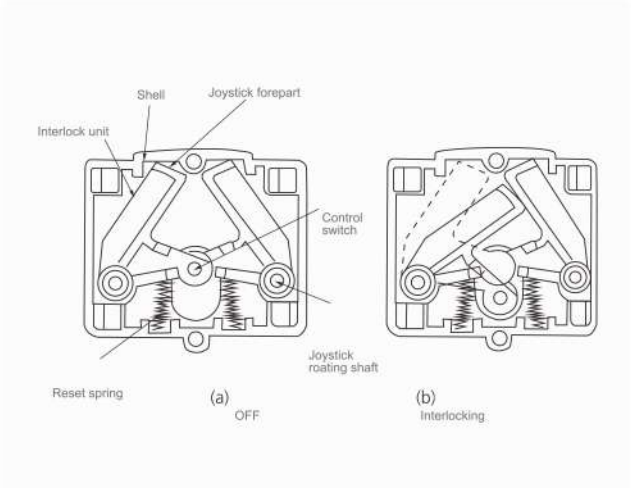
Mechanical Interlock unit

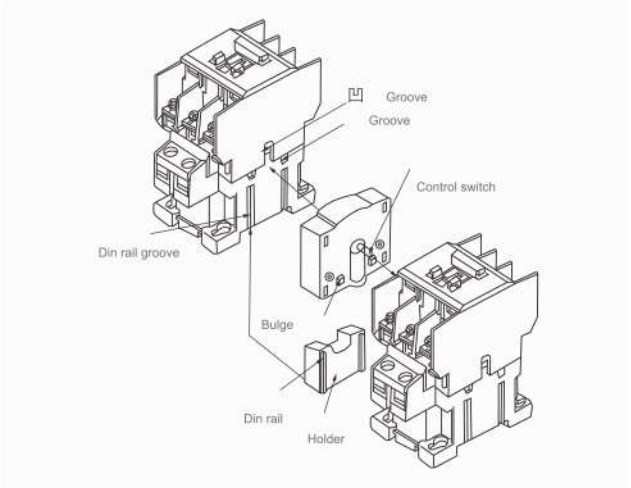
Model			
ML-9	Horizontal type	OM1C3P009-085	OM1C4P009-085
ML-100	Horizontal type	OM1C3P100-150	-
ML-180	Horizontal type	OM1C3P180-220	OM1C4P180-220
ML-330(3)	Horizontal type	OM1C3P330-500	OM1C4P330-500
ML-630(3)	Horizontal type	OM1C3P630-800	OM1C4P630-800
ML-100V	Vertical type	OM1C3P100-150	
ML-180V	Vertical type	OM1C3P180-220	

Auxiliary Accessories



Reversing Accessories





Structure and operation

– Structure

OM1RC3P009-085 are Din-rail mounting type The mechanical interlock unit is commonly used in OM1RC3P009-085

Operation

– Open state

when the both sides of the contactors are "OFF", lever maintains "OPEN" state by rebounding springs.

– Interlocking

When a contactor is energized. As the lever pin comes down by the crossbar, interlock lever revolves the axis of rotation, and the heads of two levers are interlocked.

– Releasing

If one of the two contactors is removed, crossbar comes up by the power of kick out spring, and then interlock lever goes up by the cross bar, and added with the power of rebounding springs, the interlock lever gets pushed up to the open position.

– Handling

The electrical interlock should be commonly connected to the "NC" contacts of the two contactors. Do not install horizontally.

Delay Operation Unit

Characteristics
- Delay breaking device can prevent control power source from dropping within 1-4s or the contactor from switching off accidentally when supply voltage is interrupted

Delayed unit

Type	Dalay	Time	Auxilicary contact	Suit for contactor
OMDO-0M	Making delay	0.1~3 sec	1NO 1NC	OM1C3P9 - OM1C3P85
OMDO-1M		0.1~30 sec		
OMDO-2M		10~180 sec		
OMDO-0B	Breaking delay	0.1~3 se c		
OMDO-1B		0.1~30 sec		
OMDO-2B		10~180 sec		

Parameter / Model			Air delay contact
(V) Rated insulation voltage			660
(V) Rated working voltage			660
(A) Preset heating current			10
Rated opreating current (Inductive load) (A)	AC	110V	5
		220V	3
	DC	110V	0.5
		220V	0.3
Mini. Load(Reliable work)			0.6VA(6V/10mACabove)
Max. opreating frequency			10800h
Life	Mechanical		1000 10 million times above
	Electric		120 1.2 million times
Conforms Standard			GB-14048.4
Altitude			2000 Not exceed 2000m
℃ Ambient temperature			-25-+55
Installing condition			±30° Can be ±30° from the vertical plane
Wiring terminal can be connected with conductor			1.5mm²-2.5mm² 1(or) 2 flexible (or hard) cords 1.5mm²-2.5mm²
Insulation resistance			10
(AC) Resistance voltage			2500V:1(min)
Keeping temperature			-60-+80
Relative humidity			45%-85%
Time delay repetitive error			(±3%)
Time delay stabilized error			(±20%)
Temperature error			(±0.3℃)
Reset time			0.5s below

Mount Frame Separately Unit

If it is required to mount the thermal overload relay separately,use single seat and fix with screws or guide track, (Application type: OMH022,044,085)

Aux.contacts rated parameters

Model	Rated working current (A)				
	AC15	AC15 Type load		DC13	DC13 Type load
	110V	220V	550V	110V	220V
OMH(K)022,040,085	2.5(0.3)	2(0.3)	1(0.3)	0.28(0.28)	0.14(0.14)
OMH(K)100,125,200,630					

Note: the values in the bracket are the rated parameters of NO contact while automatically reset.

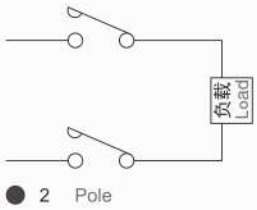
Comparison table of contactor and thermal relay

Contactor	Thermal relays
OM1C3P06M	OMH(K)12M
OM1C3P09M	
OM1C3P12M	
OM1C3P16M	
OM1C3P009	OMH(K)022
OM1C3P012	
OM1C3P018	
OM1C3P022	
OM1C3P032	OMH(K)040
OM1C3P040	
OM1C3P050	OMH(K)085
OM1C3P065	
OM1C3P075	
OM1C3P085	
OM1C3P100	OMH(K)100
OM1C3P125	
OM1C3P150	OMH(K)150
OM1C3P180	OMH(K)220
OM1C3P220	
OM1C3P330	OMH(K)630
OM1C3P400	
OM1C3P500	
OM1C3P630	

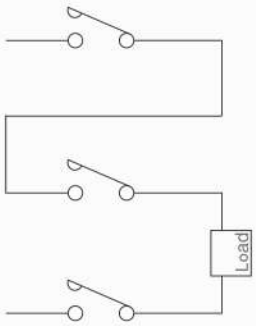
Technical Specificaions

DC application

Model	Number of poles	Rated current (DC2, DC4) DC motor load L/R=15Ms				Rated current (DC1) DC motor load L/R=1Ms				Rated current (DC1) DC Coil load L/R=100Ms			
		24V	48V	110V	220V	24V	48V	110V	220V	24V	48V	110V	220V
OM1C2P009D	2	8	4	2.5	0.8	10	10	6	3	8	4	2	0.3
OM1C3P009D	3	8	6	4	2	10	10	8	8	8	6	3	0.8
OM1C2P012D	2	12	6	4	1.2	12	12	10	7	12	6	3	0.5
OM1C3P012D	3	12	10	8	4	12	12	12	12	12	10	5	2
OM1C2P018D	2	12	6	4	1.2	18	18	13	8	12	6	3	0.5
OM1C3P018D	3	12	10	8	4	18	18	18	18	12	10	5	2
OM1C2P022D	2	20	15	8	2	20	20	15	10	20	12	3	1.2
OM1C3P022D	3	20	20	15	8	20	20	20	20	20	15	10	4
OM1C2P032D	2	25	20	10	3	25	25	25	12	25	15	4	1.2
OM1C3P032D	3	25	25	20	10	25	25	25	22	25	25	12	4
OM1C2P040D	2	35	20	10	3.5	35	25	25	12	35	15	4	1.2
OM1C3P040D	3	35	30	20	12	35	35	35	30	35	25	12	4
OM1C2P050D	2	45	25	15	3.5	50	40	35	15				
OM1C3P050D	3	50	35	30	12	50	50	50	40				
OM1C2P065D	2	45	25	15	3.5	50	40	35	15				
OM1C3P065D	3	50	35	30	12	65	65	65	50				
OM1C2P075D	2	65	40	20	5	75	65	50	20				
OM1C3P075D	3	80	60	50	20	75	75	75	55				
OM1C2P085D	2	65	40	20	5	80	65	50	20				
OM1C3P085D	3	80	60	50	20	80	80	80	60				
OM1C2P100D	2	100	60	40	30	100	100	80	50				
OM1C3P100D	3	100	90	80	50	100	100	100	80				
OM1C2P125D	2	120	60	40	30	120	100	80	50				
OM1C3P125D	3	120	90	80	50	120	120	100	80				
OM1C2P150D	2	150	100	80	60	150	120	100	100				
OM1C3P150D	3	150	130	120	80	150	150	150	150				
OM1C2P180D	2	180	150	120	80	180	180	150	150				
OM1C3P180D	3	180	180	150	100	180	180	180	180				
OM1C2P220D	2	220	150	120	80	220	180	150	150				
OM1C3P220D	3	220	220	150	100	220	220	220	220				
OM1C2P330D	2	330	200	150	90	330	240	200	200				
OM1C3P330D	3	330	280	200	150	330	330	330	330				
OM1C2P400D	2	400	200	150	90	400	240	200	200				
OM1C3P400D	3	400	280	200	150	400	400	400	300				
OM1C2P500D	2	500	500	500	500	500	500	500	500				
OM1C3P500D	3	500	500	500	500	500	500	500	500				
OM1C2P630D	2	630	630	630	630	630	630	630	630				
OM1C3P630D	3	630	630	630	630	630	630	630	630				
OM1C2P800D	2	800	630	630	630	800	800	630	630				
OM1C3P800D	3	800	630	630	630	800	800	800	800				



● 2 Pole



● 3 Pole

Technical Specificaions

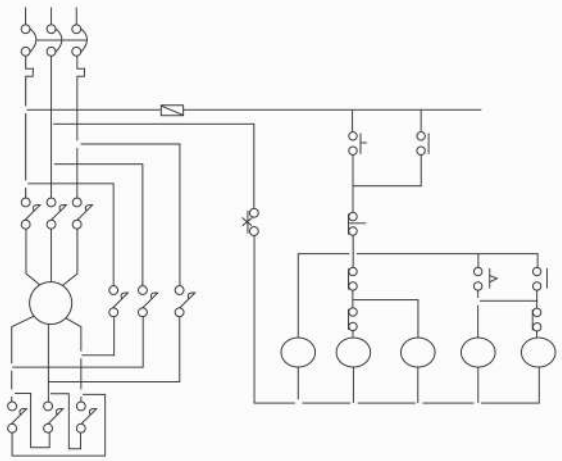
Star-triangle startup rating

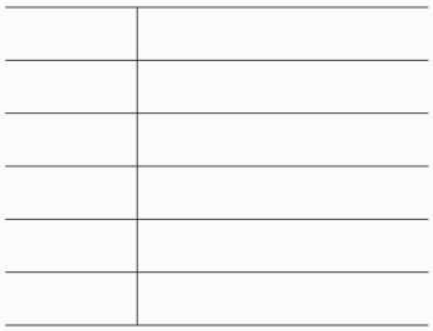
Startup mode	Magnetic(Star contactor)				Work(Triangle contactor)		
	Magnetic current	Tightening Torqe	Full load current	Contactor volage	Full load current	Contactor current	Contactor volage
Direct	6Ie	1.5T	6Ie	Ue/ $\sqrt{3}$	Ie	Ie	Ue/ $\sqrt{3}$
Star–triangle	2Ie	0.5T	2Ie	Ue/ $\sqrt{3}$	Ie	Ie/ $\sqrt{3}$	Ue

Star-triangle startup contactors type

Motor rating		200~220V			380V~440V		
		Magnetic(Star contactor)			Work(Triangle contactor)		
(KW)	(HP)	(MCS) Star startup	(MCD) Triangle work	(MCM) for insulation	(MCS) Star startup	(MCD) Triangle work	(MCM) for insulation
5.5	7.5	OM1C3P009	OM1C3P018	OM1C3P018	OM1C3P009	OM1C3P012	OM1C3P012
7.5	10	OM1C3P012	OM1C3P018	OM1C3P018	OM1C3P009	OM1C3P018	OM1C3P018
11	10	OM1C3P018	OM1C3P032	OM1C3P032	OM1C3P012	OM1C3P018	OM1C3P018
15	20	OM1C3P022	OM1C3P050	OM1C3P050	OM1C3P018	OM1C3P018	OM1C3P018
18.5	25	OM1C3P032	OM1C3P050	OM1C3P050	OM1C3P018	OM1C3P022	OM1C3P022
22	30	OM1C3P032	OM1C3P065	OM1C3P065	OM1C3P018	OM1C3P032	OM1C3P032
30	40	OM1C3P065	OM1C3P085	OM1C3P085	OM1C3P022	OM1C3P050	OM1C3P050
37	50	OM1C3P065	OM1C3P100	OM1C3P100	OM1C3P032	OM1C3P050	OM1C3P050
45	50	OM1C3P075	OM1C3P125	OM1C3P125	OM1C3P032	OM1C3P065	OM1C3P065
55	60	OM1C3P085	OM1C3P150	OM1C3P150	OM1C3P032	OM1C3P085	OM1C3P085
75	100	OM1C3P100	OM1C3P180	OM1C3P180	OM1C3P050	OM1C3P100	OM1C3P100
90	125	OM1C3P125	OM1C3P220	OM1C3P220	OM1C3P065	OM1C3P125	OM1C3P125
110	125	OM1C3P150	OM1C3P330	OM1C3P330	OM1C3P085	OM1C3P150	OM1C3P150
132	150	OM1C3P180	OM1C3P330	OM1C3P330	OM1C3P100	OM1C3P180	OM1C3P180
160	200	OM1C3P220	OM1C3P400	OM1C3P400	OM1C3P125	OM1C3P220	OM1C3P220
250	300	OM1C3P330	OM1C3P630	OM1C3P630	OM1C3P150	OM1C3P330	OM1C3P330
300	400	OM1C3P400	OM1C3P630	OM1C3P630	OM1C3P220	OM1C3P400	OM1C3P400

1Applicable for AC3 type load 2. The starting time of motor is with in 15 seconds
3. The influence of surge current shall be considered when using capacitance compensation





Technical Specificaions



Reference for selection of illumination circuit

Incandescent lamp loop

Max.quantity of incandescent lamps equipped for one contactor

Tobe / Type	100V								200V							
	100W	150W	200W	250W	300W	500W	1000W	1500W	100W	150W	200W	250W	300W	500W	1000W	1500W
OM1C3P009(D)	11	7	5	4	3	2	1	-	22	14	11	8	7	4	2	1
OM1C3P012(D)	13	8	6	5	4	2	1	-	26	17	13	10	8	5	2	1
OM1C3P018(D)	18	12	9	7	6	3	1	1	36	24	18	14	12	7	3	2
OM1C3P022(D)	19	12	9	7	6	3	1	1	38	25	19	15	12	7	3	2
OM1C3P032(D)	26	17	13	10	8	5	2	1	52	34	26	20	17	10	5	3
OM1C3P040(D)	35	23	17	14	11	7	3	2	70	46	35	28	23	14	7	4
OM1C3P050(D)	50	33	25	20	15	10	5	3	100	66	50	40	33	20	10	6
OM1C3P065(D)	65	42	32	26	19	13	6	4	130	85	65	52	42	26	13	8

Fluorescent lamp circuit

Max. quantity of fluoescent lamps equipped for one contactor

Type / Tobe		100V							200V							
		40W		60W	80W	110W		200W	40W		60W	80W	110W		220W	
	Fluorescent quantity	1	2	1	1	1	2	1	1	2	1	1	1	2	1	1
	(A)	0.95(1.2)	0.96(1.1)	0.92	1.17	1.55	2.5	2.7	0.29(0.6)	0.48(0.55)	0.46	0.58	0.78	1.3	1.36	2.5
OM1C3P009(D)		18(9)	11(10)	12	9	7	4	4	(37)18	22(20)	23	19	14	8	8	4
OM1C3P012(D)		22(10)	13(11)	14	11	8	5	4	44(21)	27(23)	28	22	16	10	9	5
OM1C3P018(D)		30(15)	18(16)	19	15	11	7	6	62(30)	37(32)	39	31	23	13	13	7
OM1C3P022(D)		32(15)	19(17)	20	16	12	7	7	65(31)	39(34)	41	32	24	14	14	7
OM1C3P032(D)		44(21)	27(23)	28	22	16	10	9	89(43)	54(47)	56	44	33	20	19	10
OM1C3P040(D)		59(29)	36(31)	38	29	22	14	13	120(58)	72(63)	76	60	44	26	25	14
OM1C3P050(D)		84(41)	52(45)	54	42	32	20	18	172(83)	104(90)	108	86	64	38	37	20
OM1C3P065(D)		110(54)	67(59)	70	55	41	26	24	224(108)	135(118)	141	112	83	50	48	26

Note: the value in the bracket denotes the low power factor

Mercury lamp loop

Max. quantity of mercury lamps equipped for one contactor

Type / Tobe		Hight power factor type-Low power factor type															
		40W	100W	200W	250W	300W	400W	700W	1000W	40W	100W	200W	250W	300W	400W	700W	1000W
	(A)	1.25	2.6	4.6	5.1	6.0	8.0	14.5	21	0.53	10	1.9	2.1	2.5	3.3	5.9	8.5
		0.55	1.4	2.6	3.0	3.7	4.9	8.5	12	-	0.65	1.2	1.5	1.8	2.3	4.1	5.8
OM1C3P009(D)		8/20	4/7	2/4	2/3	1 /2	1/1	-/-	-/-	20/-	11/16	5/9	5/7	4/6	3 /4	1 /2	1/1
OM1C3P012(D)		10/23	5/9	2/5	2/4	2/3	1/1	-/1	-/1	24/-	13/20	6/10	6/8	5/7	3/5	2/3	1 /2
OM1C3P018(D)		14/32	6/12	3/6	3/6	3 /4	2/3	1 /2	-/1	33/-	18/27	9/15	8/12	7/10	5/7	3/3	2/3
OM1C3P022(D)		15/34	7/13	4/7	3/6	3/5	2/3	1/ 2	-/1	35/-	19/29	10/15	9/12	7/10	5/8	3 /4	2/3
OM1C3P032(D)		20/47	10/18	5/10	5/8	4/7	3/5	1/ 3	1/ 2	49/-	26/40	13/21	12/17	10/14	7/11	4/6	3/ 4
OM1C3P040(D)		28/63	13/25	7/13	6/11	5/9	4/7	2 /4	1 /2	66/-	35/53	18/29	16/23	14/19	10/15	5/8	4/6
OM1C3P050(D)		40/90	19/35	10/19	9/16	8/13	6/10	3 /5	2/ 4	94/-	50/76	26/41	23/33	20/27	15/21	8/12	6/8
OM1C3P065(D)		52/118	25/36	14/25	12/21	10/17	8/13	4 /7	3/5	122/-	65/100	34/54	30/43	26/36	19/28	11/15	7/11

Technical Specificaions

Sequence short circuit situation

Motor		Magnetic contactors	Thermal overload relays	
KW	440V(A)	Model	Model	(A) Selection
5.5	11	OM1C(2-3-4)P032	OMH(K)040	9-13
7.5	15	OM1C(2-3-4)P032	OMH(K)040	12-18
10	19	OM1C(2-3-4)P032	OMH(K)040	18-26
11	21	OM1C(2-3-4)P032	OMH(K)040	18-26
15	28	OM1C(2-3-4)P032	OMH(K)040	24-36
18.5	34	OM1C(2-3-4)P075	OMH(K)085	28-40
22	39	OM1C(2-3-4)P075	OMH(K)085	34-50
30	54	OM1C(2-3-4)P075	OMH(K)085	45-65
37	66	OM1C(2-3-4)P075	OMH(K)085	54-75
45	80	OM1C(2-3-4)P100	OMH(K)100	65-100
55	99	OM1C(2-3-4)P100	OMH(K)100	85-125
75	135	OM1C(2-3-4)P150	OMH(K)150	100-150
90	160	OM1C(2-3-4)P180	OMH(K)220	120-180
110	192	OM1C(2-3-4)P180	OMH(K)220	160-240
132	226	OM1C(2-3-4)P220	OMH(K)220	160-240
160	265	OM1C(2-3-4)P400	OMH(K)630	200-330
200	330	OM1C(2-3-4)P400	OMH(K)630	300-500
220	353	OM1C(2-3-4)P400	OMH(K)630	300-500
250	400	OM1C(2-3-4)P630	OMH(K)630	300-500
300	480	OM1C(2-3-4)P630	OMH(K)630	380-630

(85KA–415V.IEC60947) Moulded case circuit breaker direct mode

Motor		Magnetic contactors	Thermal overload relays	
KW	440V(A)	Model	Model	(A) Selection
5.5	11	OM1C3P032	OMH(K)040	9-13
7.5	15	OM1C3P032	OMH(K)040	12-18
10	19	OM1C3P032	OMH(K)040	18-26
11	21	OM1C3P032	OMH(K)040	18-26
15	28	OM1C3P032	OMH(K)040	24-36
18.5	34	OM1C3P075	OMH(K)085	28-40
22	39	OM1C3P075	OMH(K)085	34-50
30	54	OM1C3P075	OMH(K)085	45-65
37	66	OM1C3P075	OMH(K)085	54-75
45	80	OM1C3P100	OMH(K)100	65-100
55	99	OM1C3P100	OMH(K)100	85-125
75	135	OM1C3P150	OMH(K)150	100-150
90	160	OM1C3P180	OMH(K)220	120-180
110	192	OM1C3P180	OMH(K)220	160-240
132	226	OM1C3P220	OMH(K)220	160-240
160	265	OM1C3P400	OMH(K)630	200-330
200	330	OM1C3P400	OMH(K)630	300-500
220	353	OM1C3P400	OMH(K)630	300-500
250	400	OM1C3P630	OMH(K)630	300-500
300	480	OM1C3P630	OMH(K)630	380-630

Technical Specificaions

Contactor with safety device

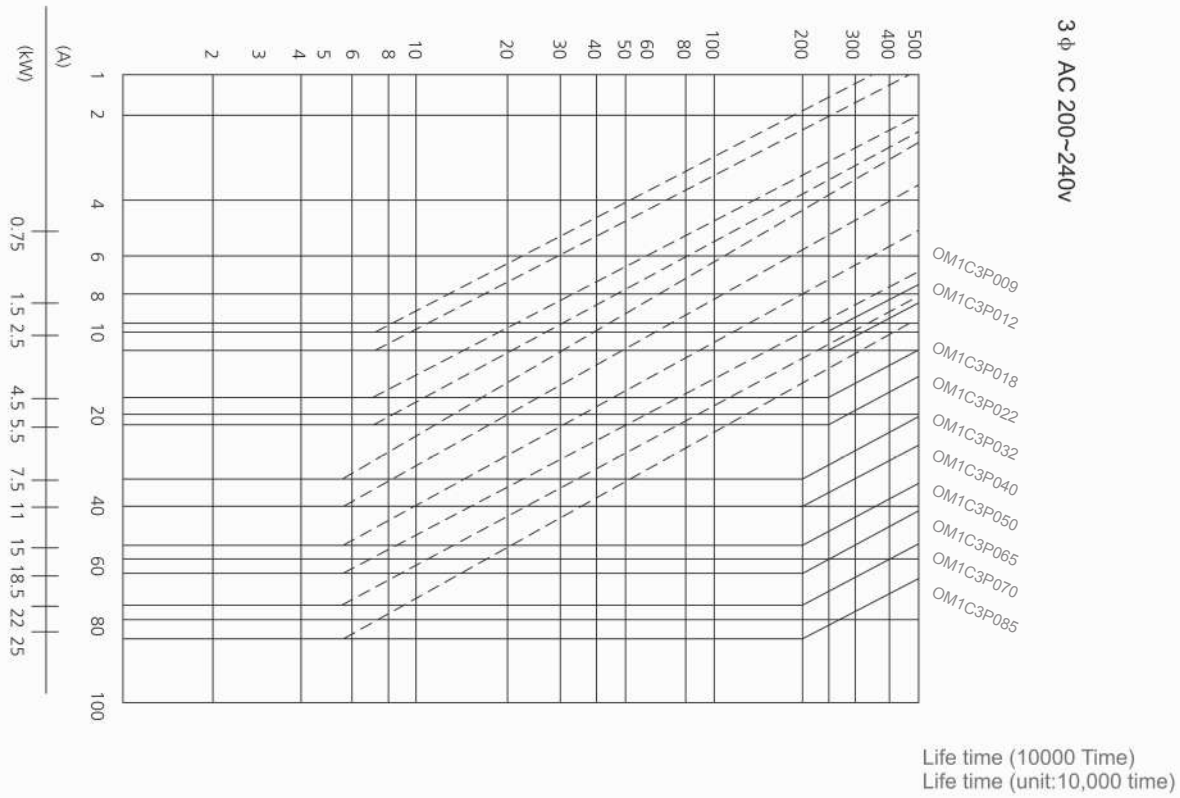
Model	AC1 Type load(A)	690V AC3 Type load(A)	Short circuit test	
			100KA fuse breaking current	Rated voltage/c
OM1C3P009	25	5	gL/g G 35A	690V/1KA
OM1C3P012	25	9	gL/g G 35A	690V/1KA
OM1C3P018	40	9	gL/g G 50A	690V/3KA
OM1C3P022	40	18	gL/g G 50A	690V/3KA
OM1C3P032	50	20	gL/g G 63A	690V/3KA
OM1C3P032	60	23	gL/g G 80A	690V/3KA
OM1C3P065	80	28	gL/g G 100A	690V/3KA
OM1C3P065	100	35	gL/g G 100A	690V/3KA
OM1C3P075	110	42	gL/g G 100A	690V/3KA
OM1C3P085	135	45	gL/g G 200A	690V/3KA
OM1C3P100	160	65	gL/g G 160A	690V/5KA
OM1C3P125	160	70	gL/g G 160A	690V/5KA
OM1C3P150	200	100	gL/g G 200A	690V/5KA
OM1C3P180	230	120	gL/g G 225A	690V/5KA
OM1C3P220	260	150	gL/g G 250A	690V/10KA
OM1C3P330	400	200	gL/g G 400A	690V/10KA
OM1C3P400	500	305	gL/g G 500A	690V/10KA
OM1C3P500	700	355	gL/g G 700A	690V/15KA
OM1C3P630	1000	460	gL/g G 1000A	690V/18KA
OM1C3P800	1600	500	gL/g G 1600A	690V/18KA

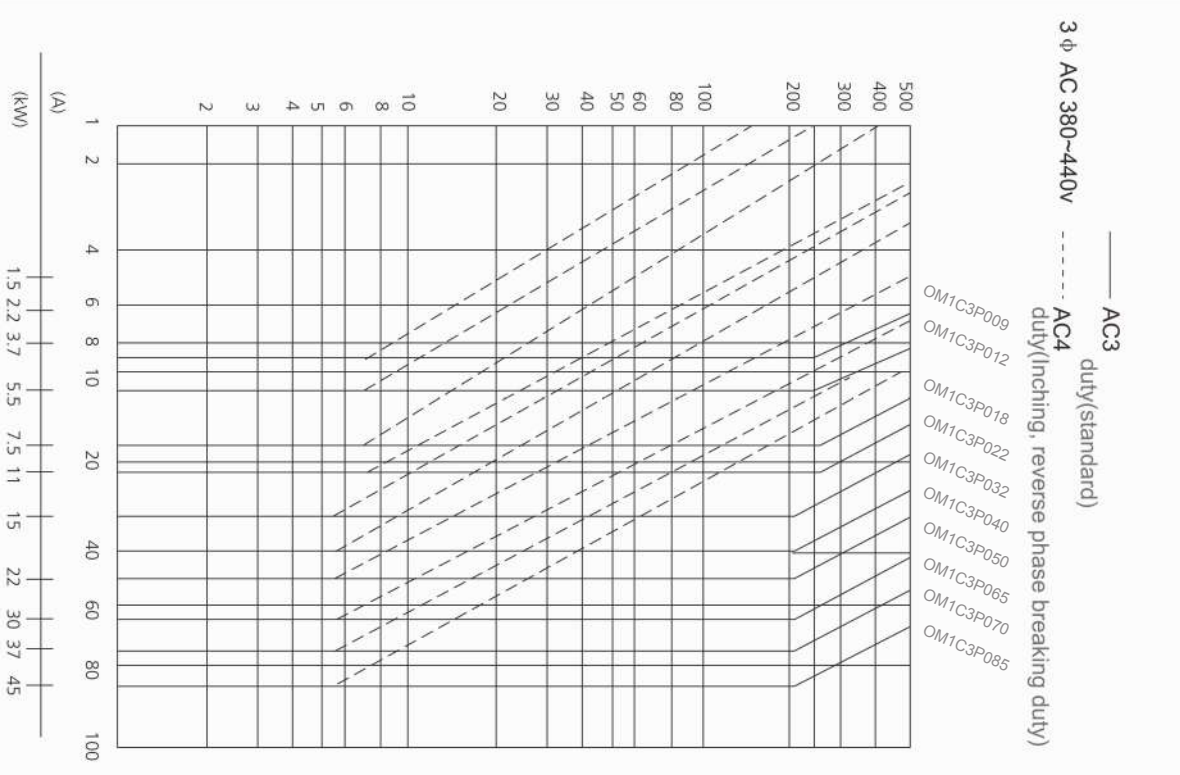
Thermal overload relays with safety device

Model	AC1 Type load(A)	690V AC3 Type load(A)	Short circuit test	
			100KA fuse breaking current	Rated voltage/c
OMH(K)022	40	1.6	gL/g G 4A	690V/1KA
OMH(K)022		2.5	gL/g G 6A	690V/1KA
OMH(K)022		4	gL/g G 10A	690V/1KA
OMH(K)022		22	gL/g G 50A	690V/1KA
OMH(K)040	60	6	gL/g G 16A	690V/1KA
OMH(K)040		8	gL/g G 20A	690V/1KA
OMH(K)040		9	gL/g G 20A	690V/1KA
OMH(K)040		40	gL/g G 80A	690V/3KA
OMH(K)085	135	18	gL/g G 35A	690V/3KA
OMH(K)085		22	gL/g G 50A	690V/3KA
OMH(K)085		26	gL/g G 63A	690V/3KA
OMH(K)085		36	gL/g G 80A	690V/3KA
OMH(K)085		40	gL/g G 80A	690V/3KA
OMH(K)085		50	gL/g G 100A	690V/3KA
OMH(K)085		65	gL/g G 160A	690V/5KA
OMH(K)085		75	gL/g G 160A	690V/5KA
OMH(K)085		85	gL/g G 200A	690V/5KA
OMH(K)100	160	65	gL/g G 150A	690V/5KA
OMH(K)100		125	gL/g G 225A	690V/5KA
OMH(K)150	200	100	gL/g G 200A	690V/5KA
OMH(K)150		150	gL/g G 250A	690V/10KA
OMH(K)220	260	150	gL/g G 250A	690V/10KA
OMH(K)220		240	gL/g G 355A	690V/10KA
OMH(K)630	1000	330	gL/g G 400A	690V/18KA
OMH(K)630		500	gL/g G 700A	690V/18KA
OMH(K)630		630	gL/g G 800A	690V/18KA

Technical Specificaions

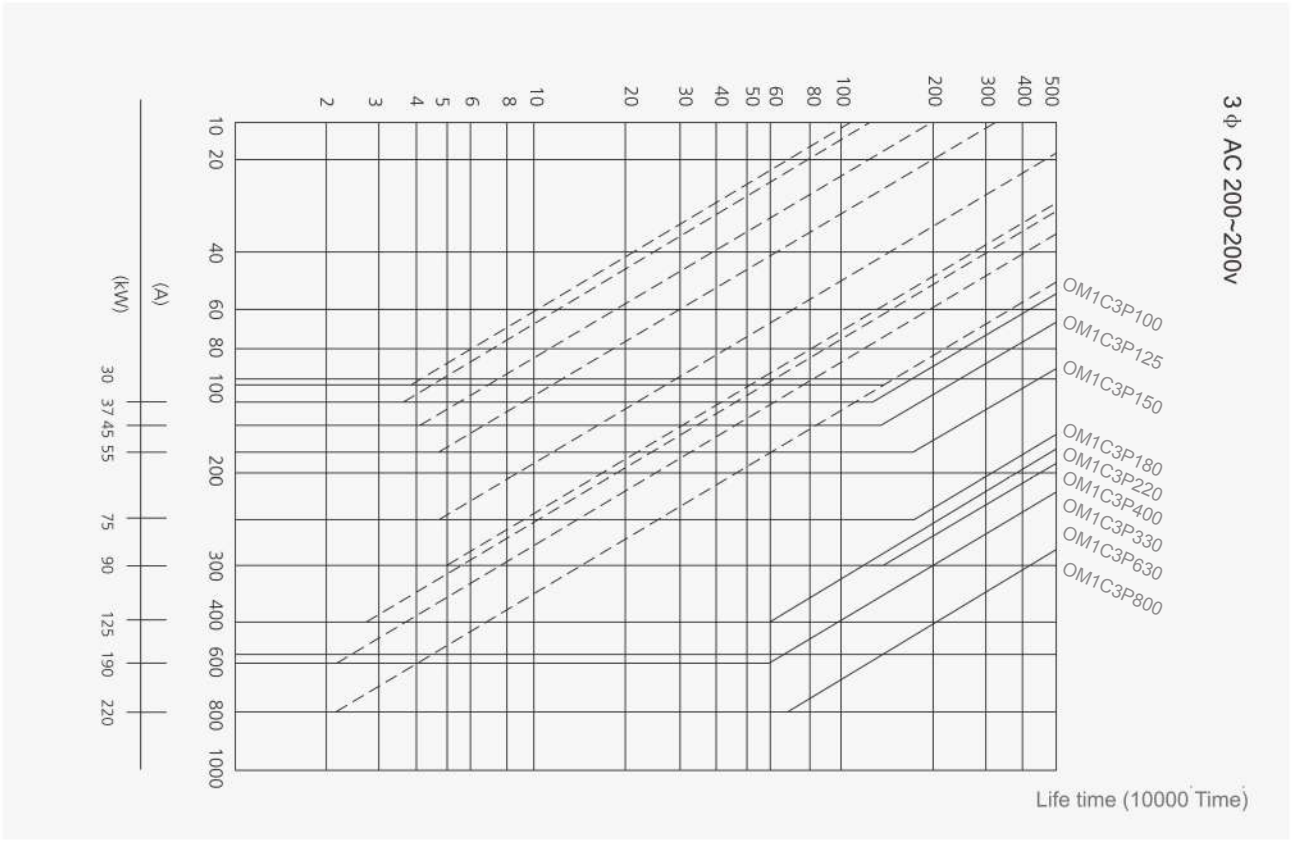
The electrical life time (OM1C3P009-085)

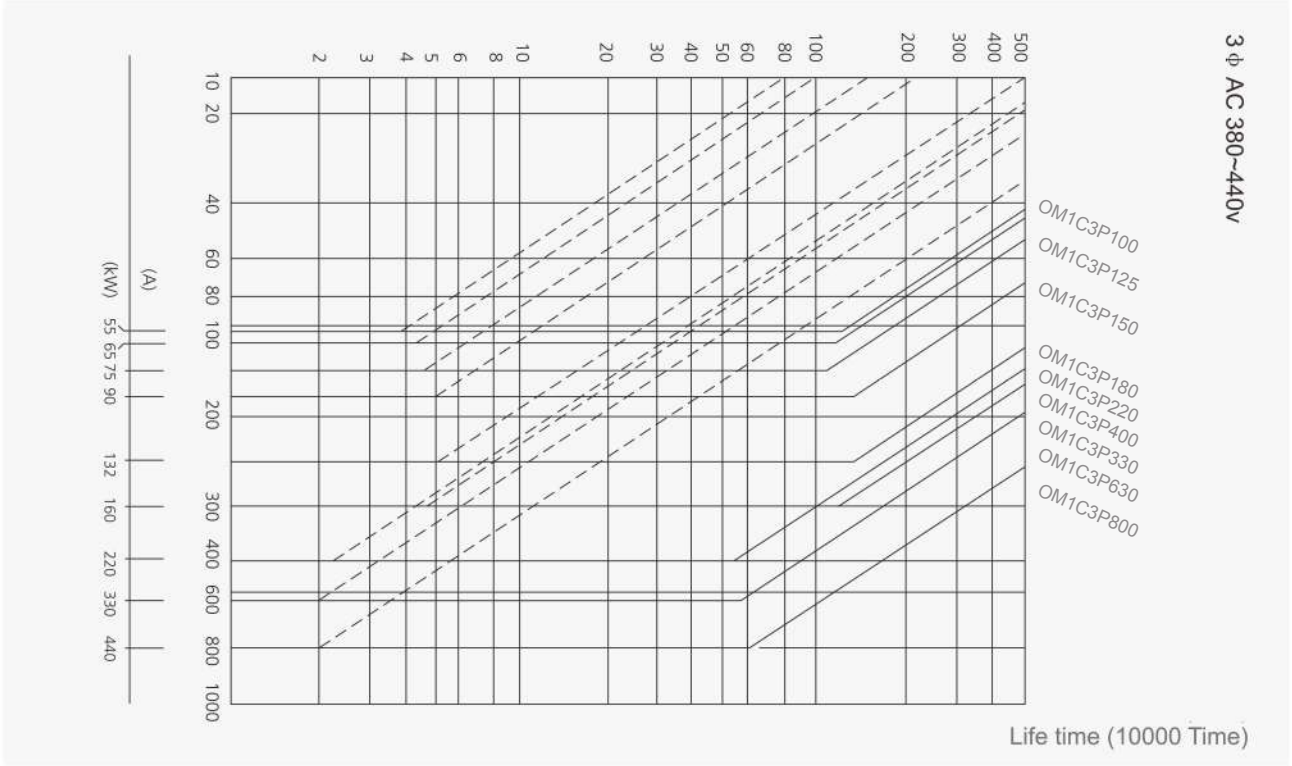




Technical Specificaions

(OM1C3P100-800) The electrical life time (OM1C3P100-800)





Technical Specificaions

Rated capacity

Model		Rated																AC1
Magnetic contactors	Magnetic switches	AC3		AC3 load				AC2		AC2 load				AC4		AC4 load		AC1 load (Ith)
		200~220V		380-440V		500-550V		200~220V		380-440V		500-550V		200~220V		380-440V		
		KW	A	KW	A	KW	A	KW	A	KW	A	KW	A	KW	A	KW	A	A
OM1C3P009	OMH022	2.5	11	4	9	4	7	2.5	11	4	9	4	7	1.5	8	2.2	6	25
OM1C3P012	OMH022	3.5	13	5.5	12	7.5	12	3.5	13	5.5	12	7.5	12	2.2	11	4	9	25
OM1C3P018	OMH022	4.5	18	7.5	18	7.5	13	4.5	18	7.5	18	7.5	13	3.7	18	4	9	40
OM1C3P022	OMH022	5.5	22	11	22	15	22	5.5	22	11	22	15	22	3.7	18	5.5	13	40
OM1C3P032	OMH040	7.5	32	15	32	18.5	28	7.5	32	15	32	18.5	28	4.5	20	7.5	17	50
OM1C3P040	OMH040	11	40	18.5	40	22	32	11	40	18.5	40	22	32	5.5	25	11	24	60
OM1C3P050	OMH085	15	55	22	50	30	43	15	55	22	50	30	43	7.5	35	15	32	80
OM1C3P065	OMH085	18.5	65	30	65	33	60	18.5	65	30	65	33	60	11	50	22	47	100
OM1C3P075	OMH085	22	75	37	75	37	64	22	75	37	75	37	64	13	55	25	52	110
OM1C3P085	OMH085	25	85	45	85	45	75	25	85	45	85	45	75	15	65	30	62	135
OM1C3P100	OMH100	30	105	55	105	55	85	30	105	55	105	55	85	19	80	37	75	160
OM1C3P125	OMH100	37	125	60	120	60	90	37	125	60	120	60	90	22	93	45	90	160
OM1C3P150	OMH150	45	150	75	150	90	140	45	150	75	150	90	140	30	125	55	110	200
OM1C3P180	OMH220	55	180	90	180	110	180	55	180	90	180	110	180	37	150	75	150	230
OM1C3P220	OMH220	75	250	132	250	132	200	75	250	132	250	132	200	45	180	90	180	260
OM1C3P330	OMH630	100	330	200	330	200	310	100	330	200	330	200	310	60	240	120	240	400
OM1C3P400	OMH630	110	400	250	400	257	400	110	400	250	400	257	400	75	300	150	300	500
OM1C3P500	OMH630	147	500	295	500	355	450	147	500	295	500	355	450	90	330	160	330	700
OM1C3P630	OMH630	200	630	400	630	400	600	200	630	400	630	400	600	115	420	210	420	1000

Rated capacity of auxiliary contacts

Model	Rated current(A)								AC1 (Ith)
	AC15		DC13		AC12		DC12		
	120V	240V	480V	600V	125V	250V	440V	600V	A
OM1C3P06M(D)-16M(D)	4	2	1.0	0.8	2	1.0	0.4	0.2	16
OM1C3P009(D)-022(D)	6	3	1.5	1.2	3	1.5	0.55	0.27	16
OM1C2P032(D)-085(D)	6	3	1.5	1.2	3	1.5	0.55	0.27	16
OM1C3P100(D)- 800(D)	6	5	3	3	6	3	1.2	0.2	16

Technical Specificaions

NO. of contact

Model	Standard	Option
OM1C3P06M-16M	1 NO	1NO 1NC, 2NO 2NC
OM1C3P009-022	1 NO 1NC	4NO, 3NO 1NC, 2NO 2NC, 1NO 3NC
OM1C3P032-085	2 NO 2NC	4NO, 3NO 1NC, 2NO 2NC, 1NO 3NC
OM1C3P100-220	2 NO 2NC	2NO 2NC
OM1C3P330-800	-	4NO, 3NO 1NC, 2NO 2NC, 1NO 3NC

Ratings of the operational coil

6~85A

Type	AC coil		DC coil
	AC 50Hz	AC 60Hz	DC
OM1C3P006(D) 085(D)	24V	24V	12V
	42V	48V	24V
	48V	110V	48V
	100V	120V	100V
	110V	208V	110V
	220V	220V	125V
	240V	240V	200V
	380V	277V	220V
	400V	380V	250V
	415V	440V	-
	440V	480V	-
	500V	600V	-
	550V	-	-

100~800A

Type	Voltage grade	AC/DC coil	
		AC 50Hz/60Hz	DC
OM1C3P100(D) 220(D)	24V*	24V~25V	24V
	48V*	48V~50V	48V
	100~200V	100~240V	100~220V
	300V	265~247V	-
	400V	380~450V	-
	500V	440~575V	-
OM1C3P330(D) 880(D)	100V	100~127V	100~110V
	200V	200~240V	200~220V
	300V	265~347V	-
	400V	380~450V	-
	500V	440~575V	-

Selections of coil

OM1C3P006 contactors, 50Hz coil and 60Hz coil are separated. But inOM1C3P100-800contactors, the coils are AC/DC common use, (under DC 220V).

Ranges of the coil voltage

When it is saturated after apply the rated voltage and rated frequency at 40℃, the coil operate at 85~110% of the rated voltage.

When the coil is operated below or over the variable ranges it is apt to be deteriorated in electrical insulation and mechanical operation.

Characteristics of the AC coil

AC 220V 50Hz

Type	Coil consumption[VA]		Heat dissipation [W]	Operational voltage[V]		Coil current[mA]	Operational time(ms)	
	Inrush	Sealed		Pick-up voltage	Droup-out voltage		Closing	Opening
OM1C4P009-022	95	9	2	142~157(141~156)*	112~132(105~125)*	36(41)	10~17	6~9
OM1C4P032-040	95	9	2	151~166(150~165)*	117~137(110~130)*	36(41)	11~19	6~10
OM1C4P050-085	220	17	5	146~161(145~160)*	107~127(100~120)*	68(77)	16~25	8~15
OM1C4P100-125	298	12.3	4.4	77	48	56	30~34	63~67
OM1C4P100-150	298	12.3	4.4	77	48	56	37~41	47~52
OM1C4P180-220	380	11.6	4.7	77	48	53	45	45
OM1C4P100-220	380	11.6	4.7	77	48	53	45	45

Note) 1.The aboves are average values. 2.()*are the values for 50Hz)

Technical Specificaions

AC 110V, 50Hz

Type	Coil consumption[VA]		Heat dissipation [W]	Operational voltage[V]		Coil current[mA]	Operational time(ms)	
	Inrush	Pick-up		Pick-up voltage	Droup-out voltage		Closing	Opening
OM1C4P009-022	95	8	2	74~84(75~85)	54~64(55~65)*	73(73)*	11~18	6~9
OM1C4P032-040	95	8	2	75~84(75~85)	54~64(55~65)*	73(73)*	13~20	6~9
OM1C4P050-085	220	17	5.5	67~77(68~78)	39~49(40~50)*	154(154)*	16~25	9~16
OM1C4P100-125	162	9.8	3.1	77	48	89	46~50	49~53
OM1C4P150	162	12.2	3	77	48	111	56~60	44~48
OM1C4P100-120	220	9.1	3.4	77	48	83	60	41
OM1C4P100-220	220	9.1	3.4	77	48	83	60	41

1. 2. Note) 1.The aboves are average values. 2.()*are the values for 50Hz

Characteristics of the DC coil

DC 110V dasis

Type	Coil consumption		Heat dissipation [W]	Operational voltage		Coil current	Operational time	
	Inrush	Pick-up		Pick-up voltage	Droup-out voltage		Closing	Opening
OM1C4P009D-022D	9	9	50	60~75	15~35	82	45~55	8~15
OM1C4P032D-040D	9	9	50	60~75	15~35	82	45~55	8~15
OM1C4P050D-085D	220	5	-	65~80	15~35	46	20~30	13~20

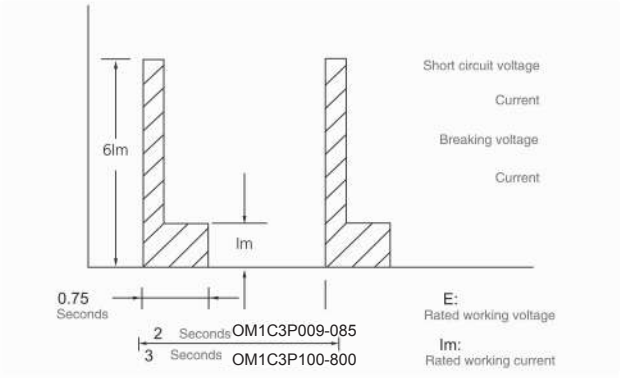
Note:1. The aboves are average values

Technical Specificaions

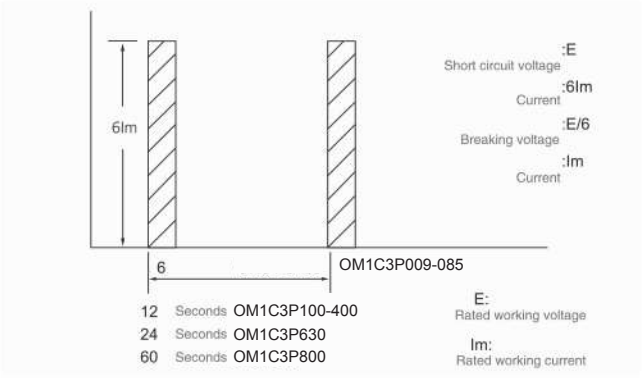
Performance of the magnetic contactors

Type	Rated voltage	Rated current	Short.breaking current		Operating cycles per hour(AC3 duty)	Life time(unit:10,000 time)		Perpormance indicate
			Short circuit	Breaking		Mechanical	Electrical	
OM1C()P009	220	11	132	110	1800	2500	250	AC3.1.0-0
	440	9	108	90				
OM1C()P012	220	13	156	130	1800	2500	250	AC3.1.0-0
	440	12	144	120				
OM1C()P018	220	18	216	180	1800	2500	250	AC3.1.0-0
	440	18	216	180				
OM1C()P022	220	22	264	220	1800	2500	250	AC3.1.0-0
	440	22	264	220				
OM1C()P032	220	32	385	320	1800	1500	200	AC3.1.0-0
	440	32	385	320				
OM1C()P040	220	40	480	400	1800	1500	200	AC3.1.0-0
	440	40	480	400				
OM1C()P050	220	55	660	550	1200	1000	200	AC3.1.0-0
	440	50	600	500				
OM1C()P065	220	65	780	650	1200	1000	200	AC3.1.0-0
	440	65	780	650				
OM1C()P075	220	75	900	750	1200	1000	200	AC3.1.0-0
	440	75	900	750				
OM1C()P085	220	80	960	800	1200	1000	200	AC3.1.0-0
	440	80	960	800				
OM1C()P100	220	105	1050	1050	1200	500	100	AC3.1.0-0
	440	105	1050	1050				
OM1C()P125	220	125	1250	1250	1200	500	100	AC3.1.0-0
	440	120	1200	1200				
OM1C()P150	220	150	1500	1500	1200	500	100	AC3.1.0-0
	440	150	1500	1500				
OM1C()P180	220	180	1800	1800	1200	500	100	AC3.1.0-0
	440	180	1800	1800				
OM1C()P220	220	250	2200	2200	1200	500	100	AC3.1.0-0
	440	250	2200	2200				
OM1C()P330	220	330	3300	3300	600	300	50	AC3.1.0-0
	440	330	3300	3300				
OM1C()P400	220	400	4000	4000	600	100	30	AC3.1.1-1
	440	400	4000	4000				
OM1C()P500	220	500	5000	5000	600	100	30	AC3.1.1-1
	440	500	5000	5000				
OM1C()P630	220	630	6300	6300	600	100	20	AC3.1.1-1
	440	630	6300	6300				
OM1C()P800	220	800	8000	8000	600	100	20	AC3.1.1-1
	440	800	8000	8000				

Test period of electric life(AC3 type)



Test period of electric life(AC4 type)



Technical Specificaions

3 ☐ Three poles contactor ☐ Four poles contactor

Model	Selection of cable			Screw size		Tightening torqe(Nm)	
	AWG/MCM	Sectionl area(mm^2)		Contactor terminal	Coil terminal	Major circuit	Aux.contacts
		Min	Max				
OM1C3P009	10AWG	1.5	4	M4	M3.5	2.3	2.3
OM1C3P012	10AWG	1.5	4	M4	M3.5	2.3	2.3
OM1C3P018	8AWG	1.5	6	M4	M3.5	4	2.3
OM1C3P022	8AWG	2.5	10	M4	M3.5	4	2.3
OM1C3P032	6AWG	4	16	M5	M3.5	4	2.3
OM1C3P032	6AWG	4	16	M5	M3.5	4	2.3
OM1C3P065	4AWG	6	25	M6	M3.5	5	2.3
OM1C3P065	2AWG	10	35	M8	M3.5	5	2.3
OM1C3P075	2AWG	10	35	M8	M3.5	5	2.3
OM1C3P085	0AWG	10	50	M8	M4	5	2.3
OM1C3P100	00AWG	25	70	M8	M4	9	2.3
OM1C3P125	00AWG	25	70	M8	M4	9	2.3
OM1C3P150	0000AWG	35	95	M8	M4	9	2.3
OM1C3P180	250AWG	50	120	M10	M4	15	2.3
OM1C3P220	300AWG	70	150	M10	M4	15	2.3
OM1C3P330	500AWG	90	240	M12	M4	23	2.3
OM1C3P400	N°2 30 × 5	150		M16	M4	23	2.3
OM1C3P500	N°2 40 × 5	200		M16	M4	45	2.3
OM1C3P630	N°2 50 × 5	240		M16	M4	57	2.3
OM1C3P800	N°2 60 × 5	240		M16	M4	57	2.3

Four poles contactor

Model	Selection of cable		Screw size		Tightening torqe(Nm)	
	AWG/MCM	Sectionl area	Contactor terminal	Coil terminal	Major circuit	Aux.contacts
OM1C4P009	10AWG	4	M4	M3.5	2.3	2.3
OM1C4P012	10AWG	4	M4	M3.5	2.3	2.3
OM1C4P018	8AWG	6	M4	M3.5	4	2.3
OM1C4P022	8AWG	10	M4	M3.5	4	2.3
OM1C4P032	6AWG	16	M5	M3.5	4	2.3
OM1C4P032	6AWG	16	M5	M3.5	4	2.3
OM1C4P065	4AWG	25	M6	M3.5	5	2.3
OM1C4P065	2AWG	35	M8	M3.5	5	2.3
OM1C4P075	2AWG	35	M8	M3.5	5	2.3
OM1C4P085	0AWG	50	M8	M4	5	2.3
OM1C4P100	00AWG	70	M8	M4	9	2.3
OM1C4P125	00AWG	70	M8	M4	9	2.3
OM1C4P150	0000AWG	95	M8	M4	9	2.3
OM1C4P180	250AWG	120	M10	M4	15	2.3
OM1C4P220	300AWG	150	M10	M4	15	2.3
OM1C4P330	500AWG	240	M12	M4	23	2.3
OM1C4P400	N°2 30 × 5	150	M16	M4	23	2.3
OM1C4P500	N°2 40 × 5	200	M16	M4	45	2.3
OM1C4P630	N°2 50 × 5	240	M16	M4	57	2.3
OM1C4P800	N°2 60 × 5	240	M16	M4	57	2.3

Note:AWG/MCM is a UL standard, and only for reference

Technical Specificaions

Model	Selection	Selection of cable		Tightening torge(Nm)	Screw size
		AWG/MCM	Sectional area		
OMH(K)12M	0.10~0.16	18AWG	1.5	2.0	M3.5
	0.16~0.25	18AWG	1.5	2.0	M3.5
	0.25~0.4	18AWG	1.5	2.0	M3.5
	0.4~0.63	18AWG	1.5	2.0	M3.5
	0.63~1	18AWG	1.5	2.0	M3.5
	1~1.6	18AWG	1.5	2.0	M3.5
	1.6~2.5	18AWG	1.5	2.0	M3.5
	2.5~4	18AWG	1.5	2.0	M3.5
	4~6	18AWG	1.5	2.0	M3.5
	5~8	16AWG	1.5	2.0	M3.5
	6~9	16AWG	1.5	2.0	M3.5
	7~10	16AWG	1.5	2.0	M3.5
	9~13	14AWG	1.5~2.5	2.0	M3.5
	12~16	14AWG	1.5~2.5	2.0	M3.5
OMH(K)022	0.10~0.16	18AWG	1.5	2.3	M4
	0.16~0.25	18AWG	1.5	2.3	M4
	0.25~0.4	18AWG	1.5	2.3	M4
	0.4~0.63	18AWG	1.5	2.3	M4
	0.63~1	18AWG	1.5	2.3	M4
	1~1.6	18AWG	1.5	2.3	M4
	1.6~2.5	18AWG	1.5	2.3	M4
	2.5~4	18AWG	1.5	2.3	M4
	4~6	18AWG	1.5	2.3	M4
	5~8	16AWG	1.5	2.3	M4
	6~9	16AWG	1.5	2.3	M4
	7~10	16AWG	1.5	2.3	M4
	9~13	14AWG	1.5~2.5	2.3	M4
	12~18	12AWG	2.5	2.3	M4
	16~22	10AWG	2.5~4.0	2.3	M4
OMH(K)040	4~6	18AWG	1.5	4	M5
	5~8	16AWG	1.5	4	M5
	6~9	16AWG	1.5	4	M5
	7~10	16AWG	1.5	4	M5
	9~13	14AWG	1.5~2.5	4	M5
	12~18	12AWG	2.5	4	M5
	16~22	10AWG	2.5~4.0	4	M5
	18~26	10AWG	2.5~6.0	4	M5
	24~36	10AWG	4.0~10	4	M5
	28~40	10AWG	6.0~10	4	M5

Technical Specificaions

Model	Selection	Selection of cable		Tightening torge(Nm)	Screw size
		AWG/MCM	Sectional area		
OMH(K)085	7~10	16AWG	1.5	5.1	M6
	9~13	14AWG	1.5~2.5	5.1	M6
	12~18	12AWG	2.5	5.1	M6
	16~22	10AWG	2.5~4.0	5.1	M6
	18~26	10AWG	2.5~6.6	5.1	M6
	24~36	10AWG	4.0~10	5.1	M6
	28~40	10AWG	6.0~10	5.1	M6
	34~50	6AWG	10~16	5.1	M6
	45~65	4AWG	10~25	5.1	M8
	54~75	4AWG	16~25	5.1	M8
	63~85	3AWG	16~35	5.1	M8
OMH(K)100	34~50	6AWG	10~16	9	M8
	39~57	6AWG	10~16	9	M8
	43~65	4AWG	10~25	9	M8
	54~80	4AWG	16~25	9	M8
	65~100	2AWG	25~35	9	M8
	85~125	1AWG	35~50	9	M8
OMH(K)150	39~57	6AWG	10~16	9	M8
	43~65	4AWG	10~25	9	M8
	54~80	4AWG	16~25	9	M8
	65~100	2AWG	25~35	9	M8
	85~125	1AWG	35~50	9	M8
	100~150	00AWG	35~70	9	M8
OMH(K)220	65~100	2AWG	25~35	15	M10
	85~125	1AWG	35~50	15	M10
	100~160	00AWG	35~70	15	M10
	120~180	000AWG	50~95	15	M10
	160~240	250AWG	70~120	15	M10
OMH(K)630	200~330	400AWG	95~185	23	M12
	300~500	N°2 40 × 5	150~185	57	M16
	380~630	N°2 40 × 5	150~185	57	M16

Technical Specificaions

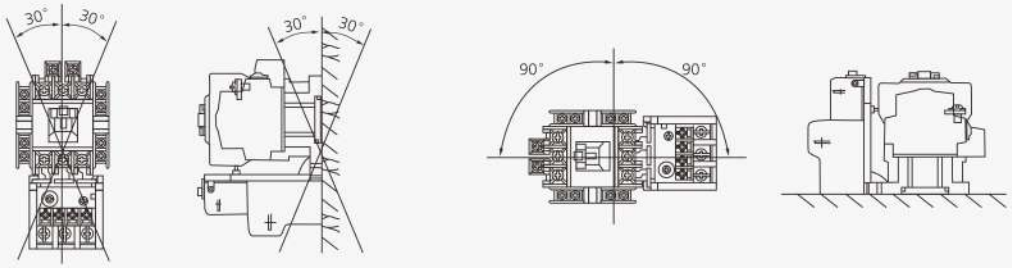
Terminal size

Model	Terminal size				Model	Terminal size			
	Major loop		Aux.loop			Major loop		Aux.loop	
	Terminal screw	A×B×C(mm)	Terminal screw	A×B×C(mm)		Terminal screw	A×B×C(mm)	Terminal screw	A×B×C(mm)
OM1C3P009	M4	9.5×5×4.9	M3.5	8×5×4.9	OMH(K)022	M4	10 × 6.5 × 5	M3.5	7.8 × 4.3 × 7.3
OM1C3P012	M4	9.5×5×4.9	M3.5	8×5×4.9					
OM1C3P018	M4	9.5×5×4.9	M3.5	8×5×4.9					
OM1C3P022	M4	9.5×5×4.9	M3.5	8×5×4.9	OMH(K)040	M5	12.4 × 6.2 × 6.3	M3.5	7.8 × 4.3 × 7.3
OM1C3P032	M5	12.4×6.5×6	M3.5	8×5×4.9					
OM1C3P032	M5	12.4×6.5×6	M3.5	8×5×4.9	OMH(K)085	M6	19 × 8.5 × 9	M3.5	7.8 × 4.3 × 7.3
OM1C3P065	M6	17.5×7×8.7	M3.5	8×5×4.9		M8	19 × 8.5 × 9	M3.5	7.8 × 4.3 × 7.3
OM1C3P065	M8	17.5×7×8.7	M3.5	8×5×4.9					
OM1C3P075	M8	17.5×7×8.7	M3.5	8×5×4.9	OMH(K)100	M8	15 × 9.5 × 9	M4	8.2 × 4.1 × 5.2
OM1C3P085	M8	17.5×7×8.7	M3.5	8×5×4.9					
OM1C3P100	M8	15×8.5×9.5	M4	10.8×4.1×4.1	OMH(K)150	M8	20 × 10 × 10	M4	8.2 × 4.1 × 5.2
OM1C3P125	M8	15×8.5×9.5	M4	10.8×4.1×4.1					
OM1C3P150	M8	20.5×10×9	M4	10.8×4.1×4.1					
OM1C3P180	M10	25×12.5×15	M4	10.8×4.1×4.1	OMH(K)220	M10	25 × 12.5 × 13.5	M3.5	7.7 × 5 × 4.5
OM1C3P220	M10	25×12.5×15	M4	10.8×4.1×4.1					

Installation and using environment

Mounting

1) Installation position



Standard mounting

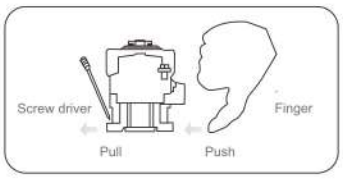
Vertical mounting or level mounting

* The service life and performance will be reduced if applying special installation mode rather than normal one.

2) OM1C3P009-085

Mounting

Dismantle



Environment

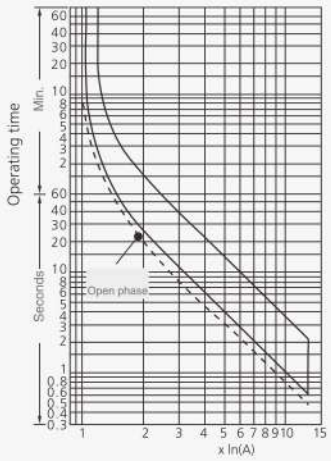
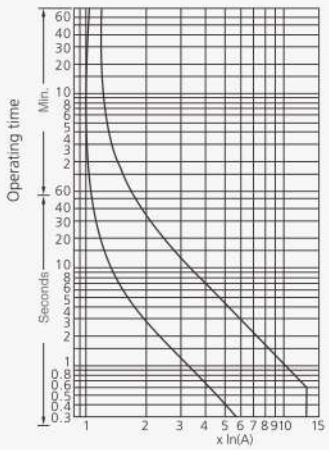
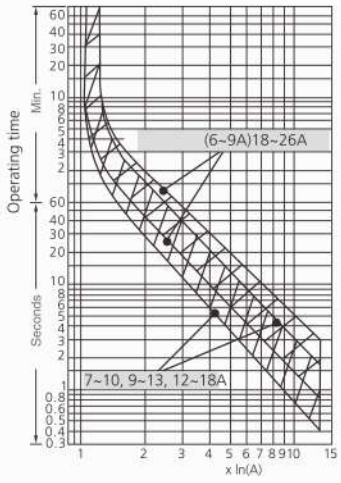
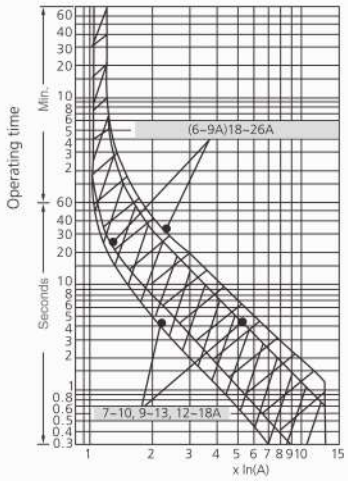
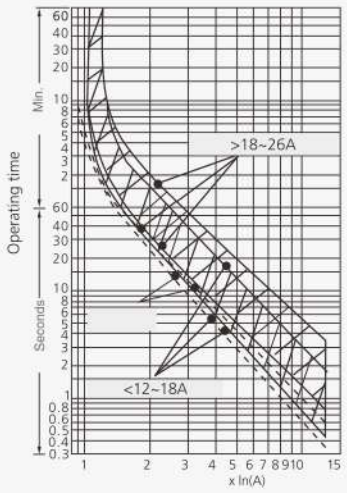
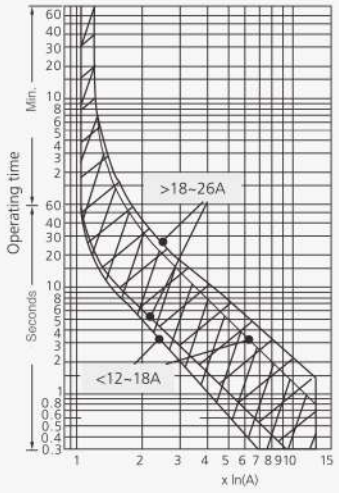
1) Ambient temperature：Base20° ...(-25~40° ...)

2) Storage temperature：-30°~65° ...

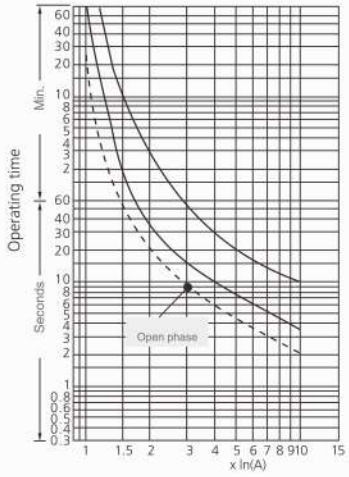
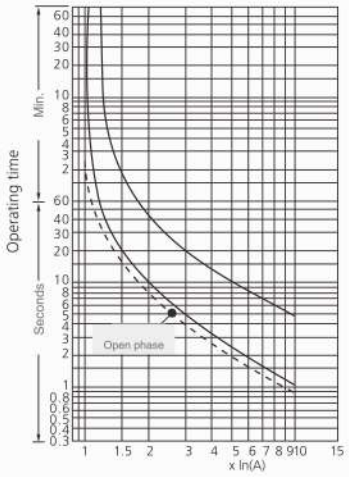
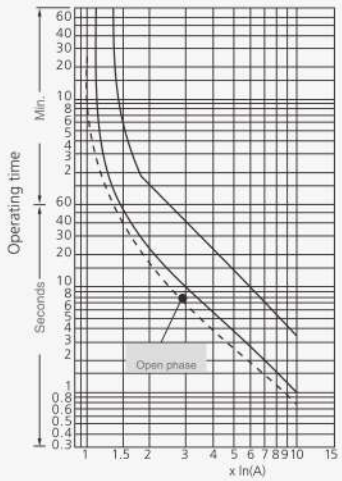
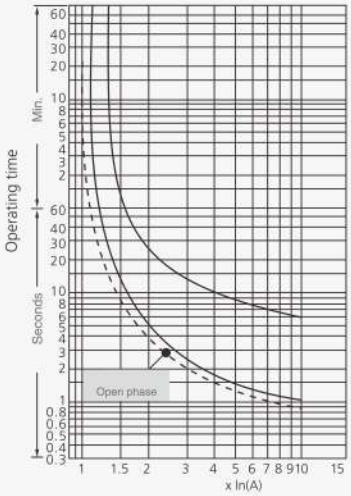
3) Altitude：2,000m and below

4) The environment no freezing

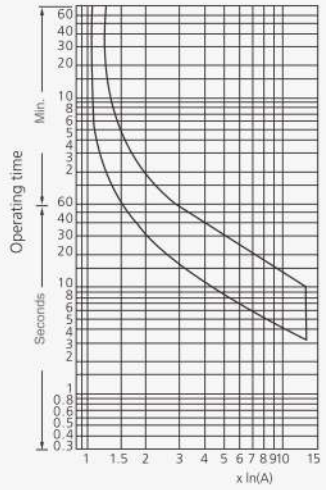
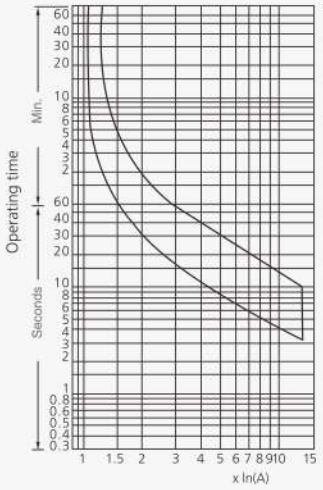
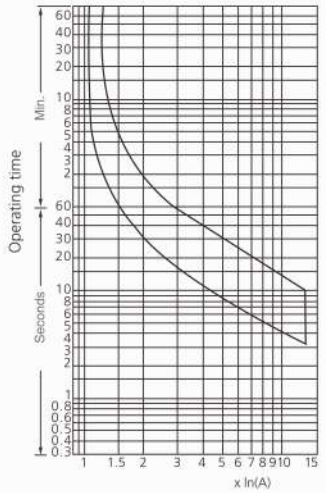
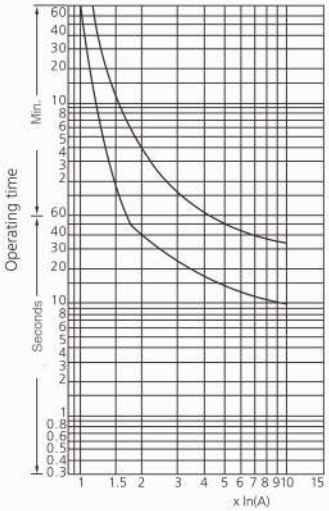
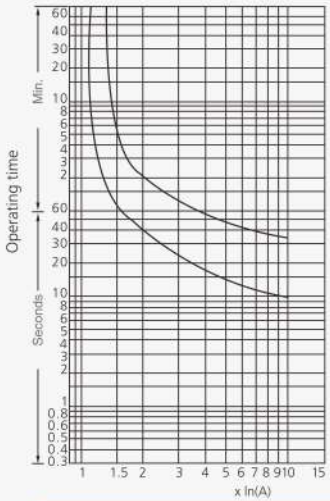
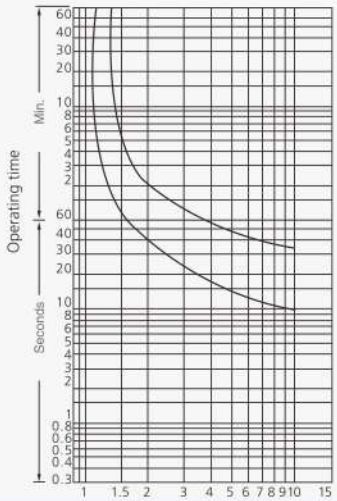
Thermal Overload Relays Characteristics Curve

Model	Cold	Hot
OMH(K)022		
OMH(K)040		
OMH(K)085		

Thermal Overload Relays Characteristics Curve

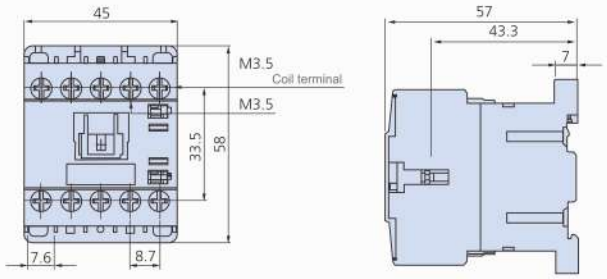
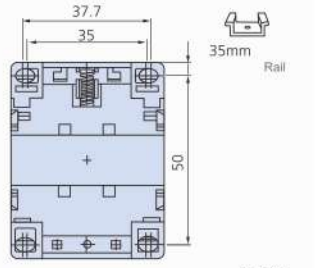
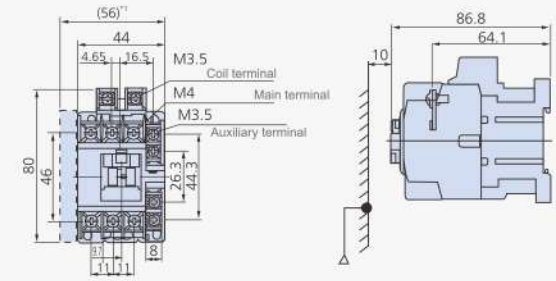
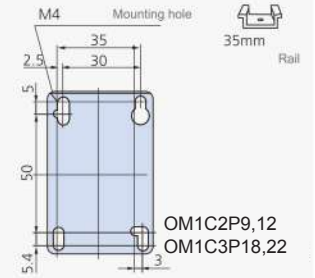
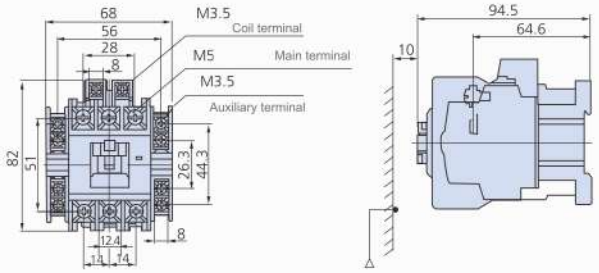
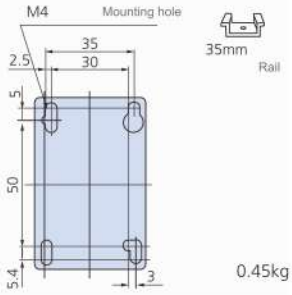
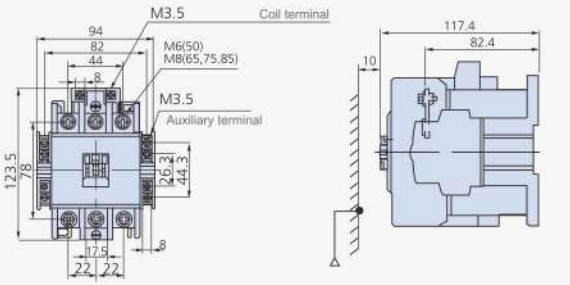
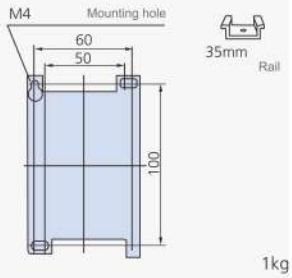
Model	Cold	Hot
OMH(K)100-150		
OMH(K)220		

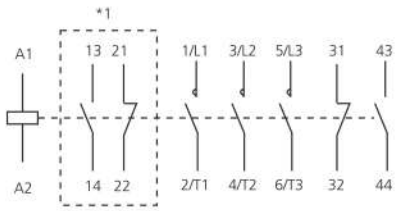
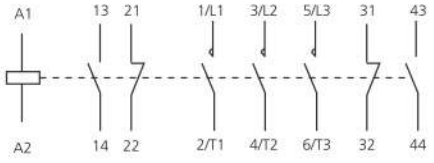
Thermal Overload Relays Characteristics Curve

Model	Trip characteristics	Model	Trip characteristics
OMK022/L		OMK040/L	
OMK085/L		OMK100/L OMK150/L	
OMK220/L		OMK630/L	

Mounting Dimensions & Wiring Diagram

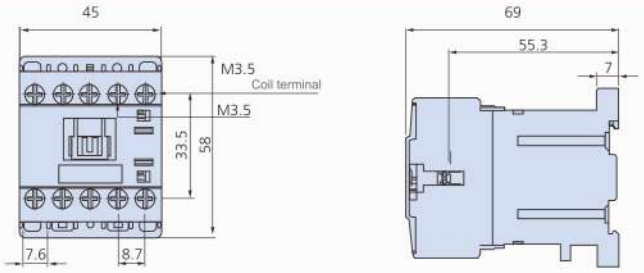
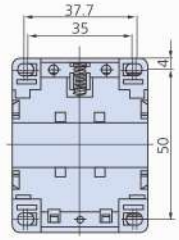
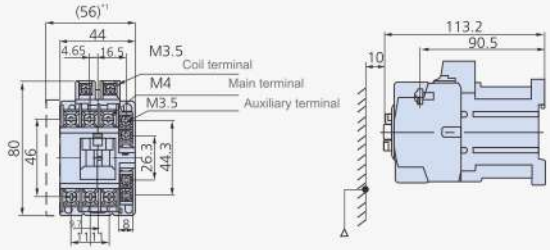
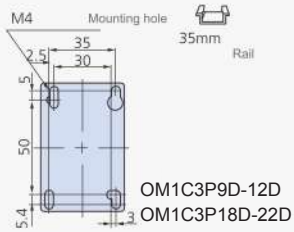
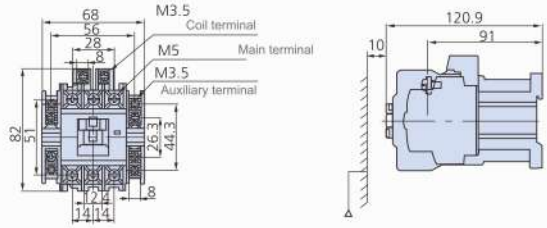
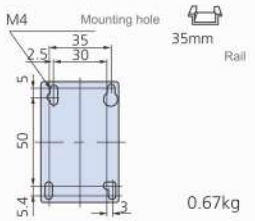
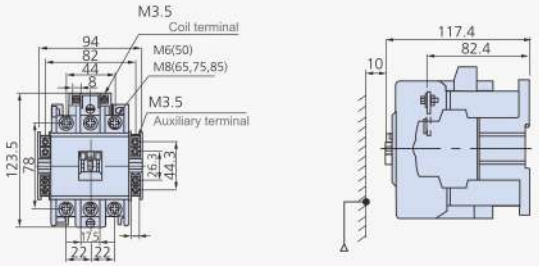
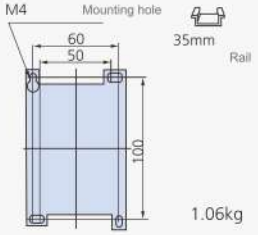
Three poles contactor

Model	External dimensions (mm)	Install size
OM1C3P06M OM1C3P09M OM1C3P12M OM1C3P16M		
OM1C3P06M OM1C3P09M OM1C3P12M OM1C3P16M		
OM1C3P032 OM1C3P040		
OM1C3P050 OM1C3P065 OM1C3P075 OM1C3P085		

Contacts form	OM1C3P009-022	OM1C3P032-040
		

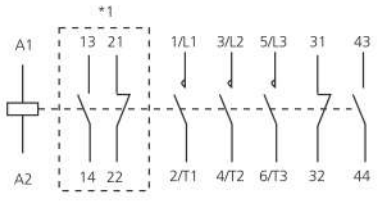
Mounting Dimensions & Wiring Diagram

Three poles contactor

Model	External dimensions (mm)	Install size
OM1C3P06MD OM1C3P09MD OM1C3P12MD OM1C3P16MD		 0.23kg
OM1C3P009D OM1C3P012D OM1C3P018D		 OM1C3P9D-12D OM1C3P18D-22D
OM1C3P032D OM1C3P040D		 0.67kg
OM1C3P050D OM1C3P065D OM1C3P075D OM1C3P085D		 1.06kg

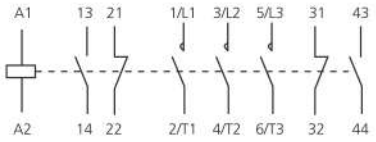
Contacts form

OM1C3P009D-022D

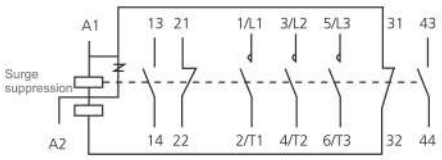


note)*1. Assistant contacts 2a2b

OM1C3P032D-085D

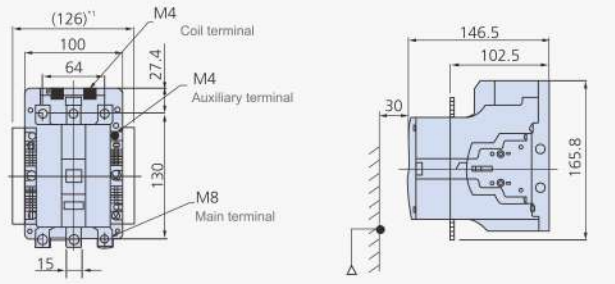
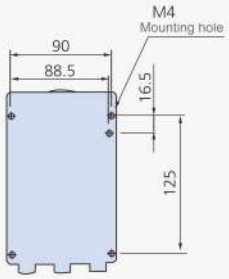
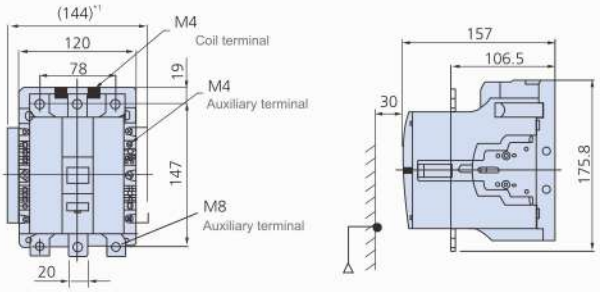
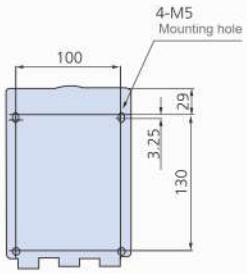
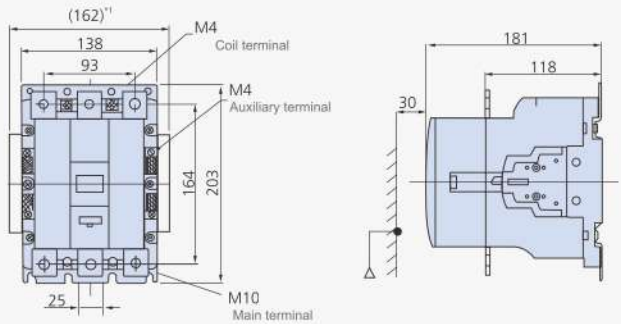
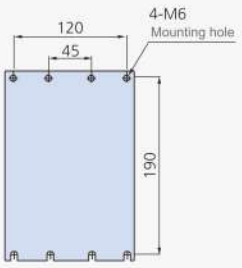


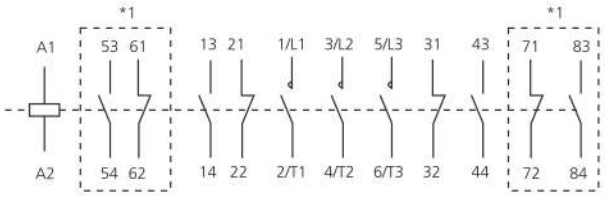
OM1C3P050D-085D



Mounting Dimensions & Wiring Diagram

Three poles contactor

Model	External dimensions (mm)	Install size
OM1C3P100 OM1C3P125		 2.9kg
OM1C3P150		 3.4kg
OM1C3P180 OM1C3P220		 5.4kg

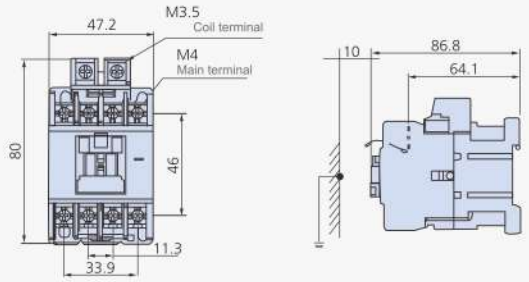
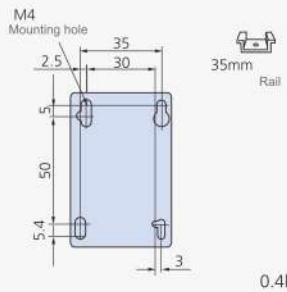
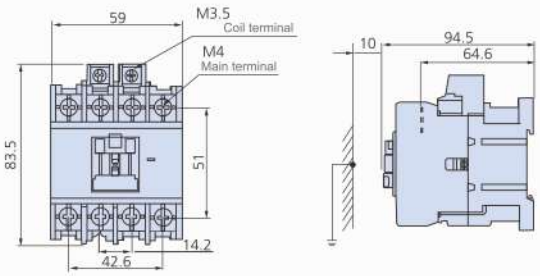
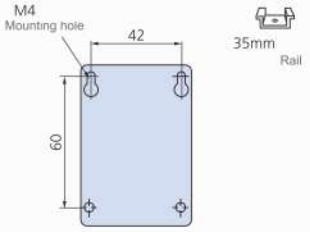
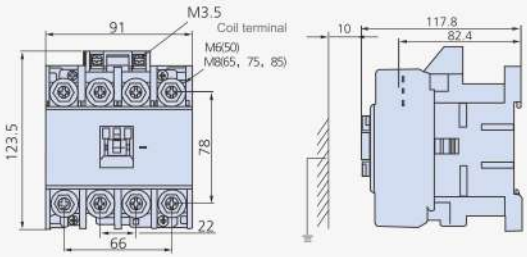
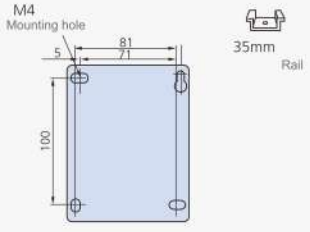
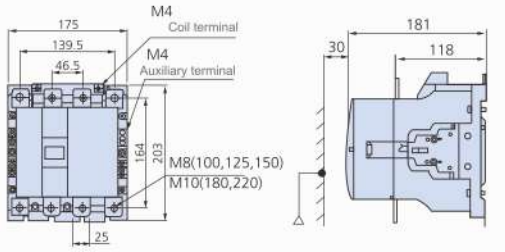
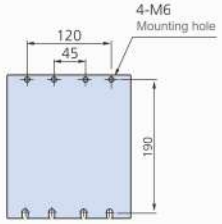
	OM1C3P100-220
Contacts form	

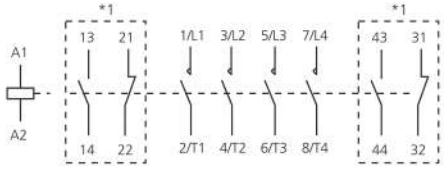
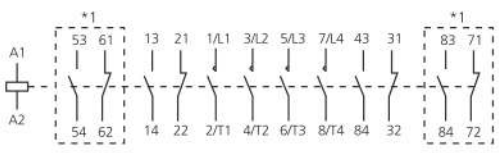
note)*1. Assistant contacts 2a2b

Mounting Dimensions & Wiring Diagram

Four poles contactor

OM1C4P009-085

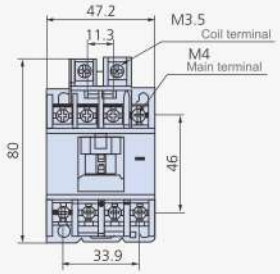
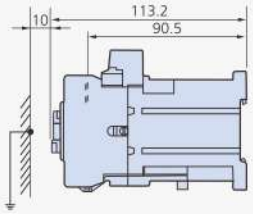
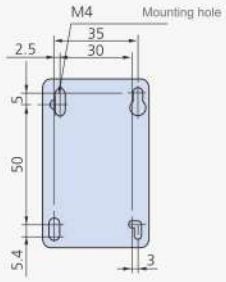
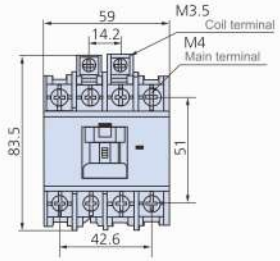
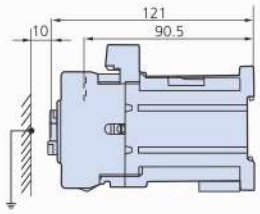
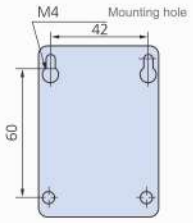
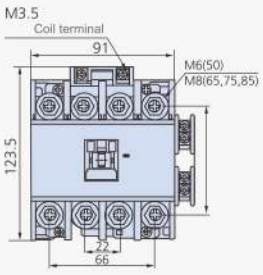
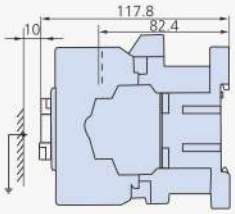
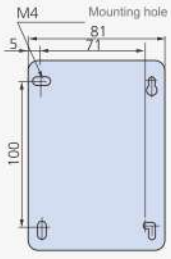
Model	External dimensions (mm)	Install size
OM1C4P009 OM1C4P012 OM1C4P018 OM1C4P022		 0.4kg
OM1C4P032 OM1C4P040		 0.59kg
OM1C3P050 OM1C3P065 OM1C3P075 OM1C3P085		 1.2kg
OM1C3P100 OM1C3P125 OM1C3P150 OM1C3P180 OM1C3P220		 5.6kg

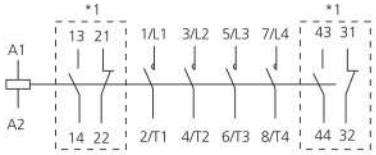
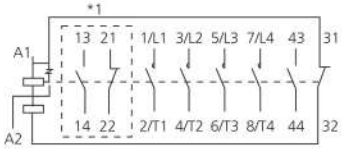
Contacts form	OM1C4P009-085	OM1C4P100-220
	 note)*1. Assistant contacts 2a2b	 note)*1. Assistant contacts 4a4b

Mounting Dimensions & Wiring Diagram

Four poles contactor

OM1C4P009-085D

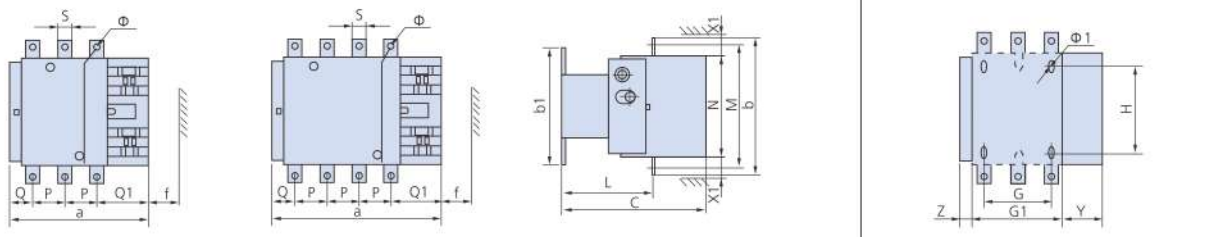
Model	External dimensions (mm)	Install size
OM1C4P009D OM1C4P012D OM1C4P018D OM1C4P022D	 	 0.5kg
OM1C4P032D OM1C4P040D	 	 0.7kg
OM1C4P050D OM1C4P065D OM1C4P075D OM1C4P085D	 	 1.29kg

Contacts form	OM1C4P009D-040D	OM1C4P050D-085D
		
	note)*1. Assistant contacts 2a2b	note)*1. Assistant contacts 2a2b

Mounting Dimensions & Wiring Diagram

2、3、4 Two, three, four poles contactor

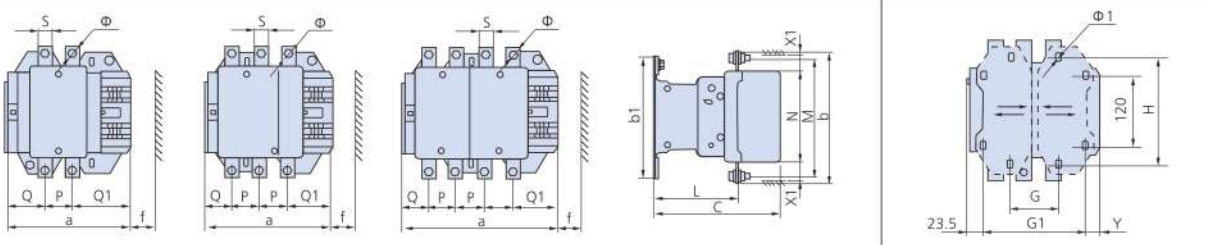
External dimensions (mm) | Install size



mm

Model	a	p	Q	Q1	s	ϕ	f	b	b1	M	N	C	L	G	H	ϕ1	G1	Z	Y	X1 500V≤	X1 >500V
OM1C3P330	213	48	43	74	25	M10	147	206	145	181	158	219	145	96	106/120	6.5	154.5	20.5	38	10	15
OM1C4P330	261	48	43	74	25	M10	147	206	145	181	158	219	145	96	106/120	6.5	202.5	20.5	38	10	15

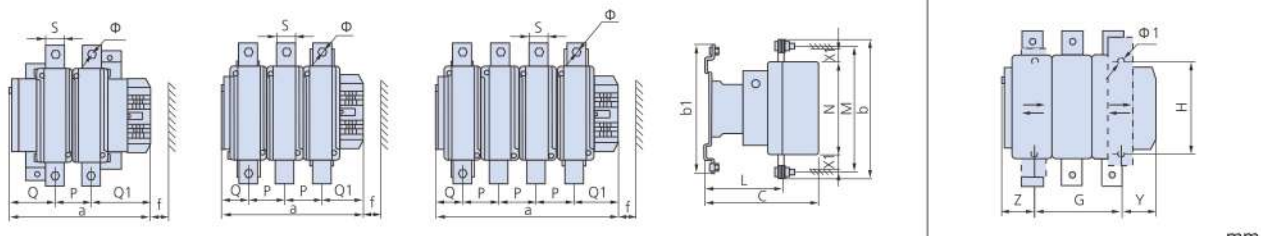
External dimensions (mm) | Install size



mm

Model	a	p	Q	Q1	s	ϕ	f	b	b1	M	N	C	L	G	G1	ϕ1	H	Y	X1 500V≤	X1 >500V
OM1C2P400	213	48	69	96	25	M10	151	206	209	181	158	219	145	80(66-102)	170(156-192)	8.5	180	19.5	15	20
OM1C3P400	213	48	43	74	25	M10	151	206	209	181	158	219	145	80(66-102)	170(156-192)	8.5	180	19.5	15	20
OM1C4P400	261	48	43	74	25	M10	151	206	209	181	158	219	145	80(66-150)	170(156-240)	8.5	180	67.5	15	20
OM1C2P500	233	55	76	102	30	M10	169	238	209	208	172	232	146	80(66-120)	170(156-210)	8.5	180	39.5	15	20
OM1C3P500	233	55	46	77	30	M10	169	238	209	208	172	232	146	80(66-120)	170(156-210	8.5	180	39.5	15	20
OM1C4P500	288	55	46	77	30	M10	169	238	209	208	172	232	146	140(66-175)	230(156-265)	8.5	180	34.5	15	20

External dimensions (mm) | Install size



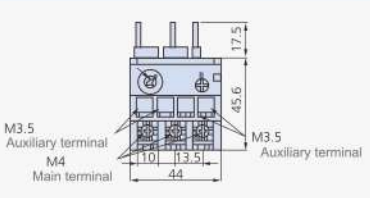
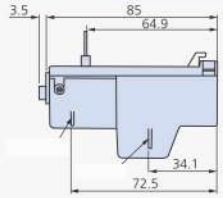
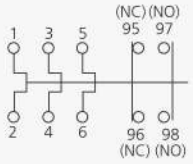
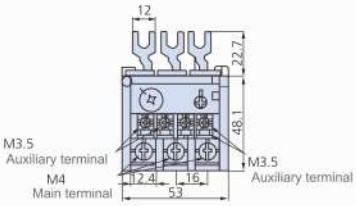
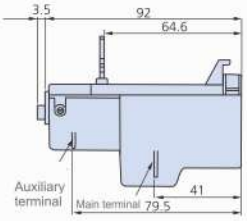
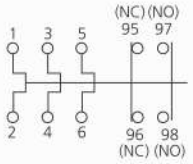
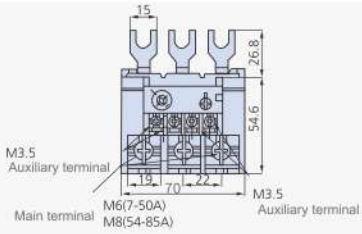
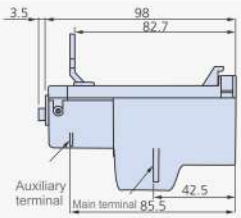
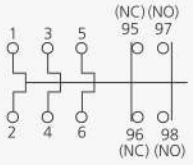
mm

Model	a	p	Q	Q1	s	ϕ	f	b	b1	M	N	C	L	G	H	ϕ1	Z	Y	X1 500V≤	X1 >500V
OM1C2P630	309	80	102	127	40	M12	201	304	280	264	202	255	155	180(100-195)	180	10.5	60.5	68.5	20	30
OM1C3P630	309	80	60	89	40	M12	201	304	280	264	202	255	155	180(100-195)	180	10.5	60.5	68.5	20	30
OM1C4P630	389	80	60	89	40	M12	201	304	280	264	202	255	155	240(150-275)	180	10.5	60.5	68.5	20	30
OM1C3P800	309	80	60	89	40	M12	201	304	280	264	202	255	155	180(100-195)	180	10.5	60.5	68.5	20	30
OM1C4P800	389	80	60	89	40	M12	201	304	280	264	202	255	155	240(150-275)	180	10.5	60.5	68.5	20	30

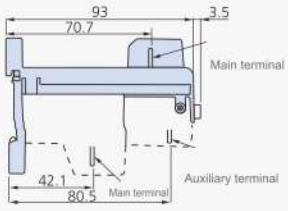
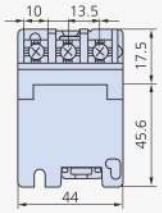
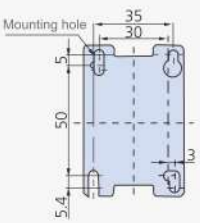
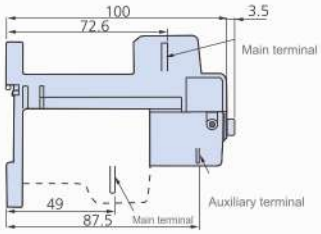
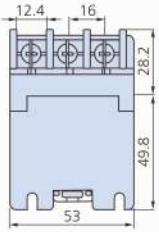
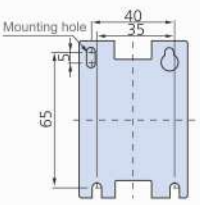
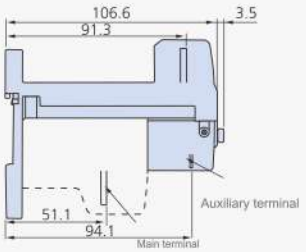
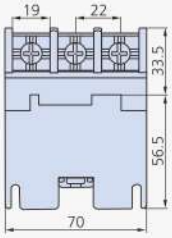
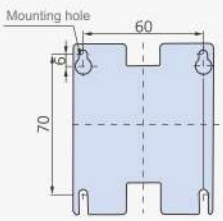
Mounting Dimensions & Wiring Diagram

Thermal overload relay

OMH(K)022-085

Model	External dimensions (mm)	Contacts form
OMH(K)022	 	 0.11kg
OMH(K)040	 	 0.17kg
OMH(K)085	 	 0.3kg

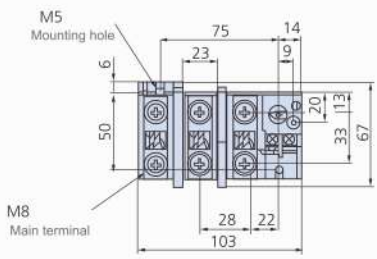
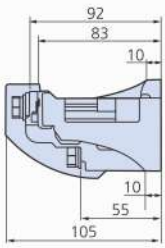
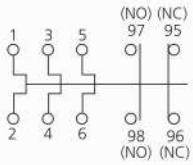
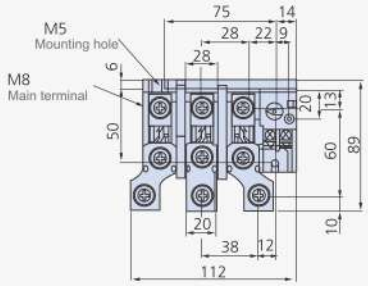
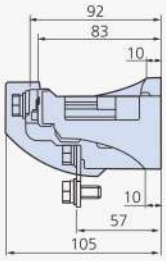
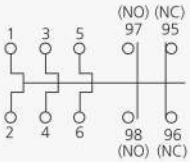
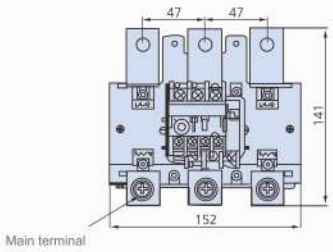
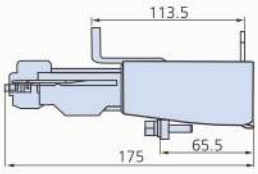
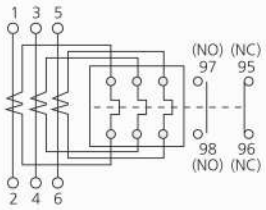
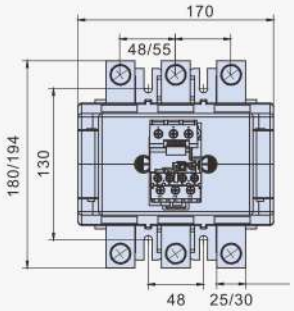
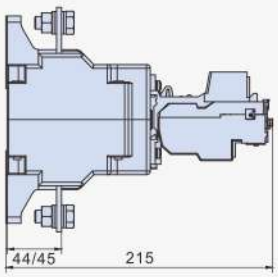
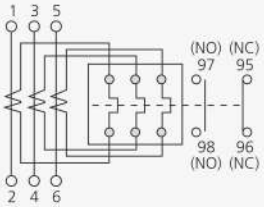
Connecting thermal overload relay with din rail

Model	External dimensions (mm)	Contacts form
MU22H	 	 44kg
MU40H	 	 72kg
MU85H	 	 144g

Mounting Dimensions & Wiring Diagram

Thermal overload relay

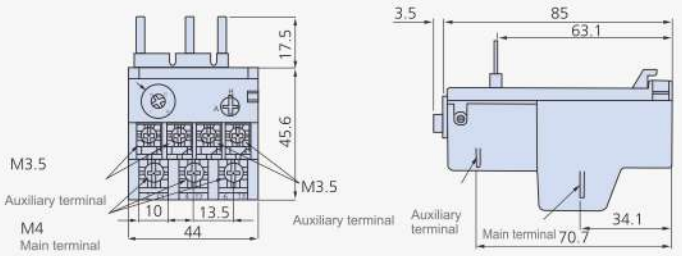
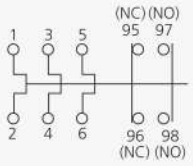
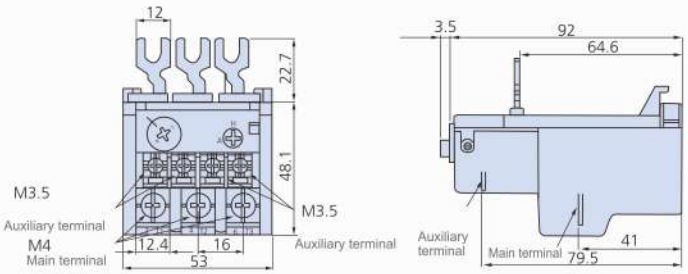
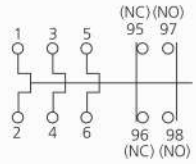
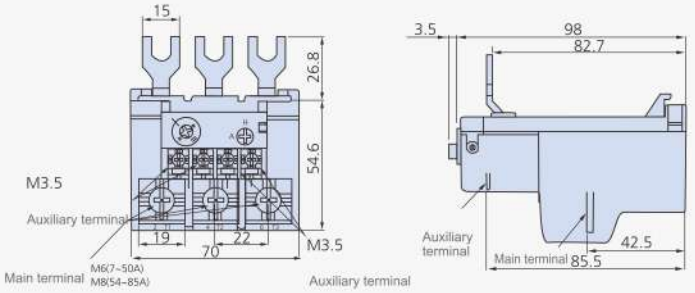
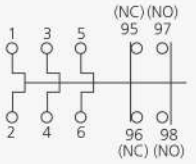
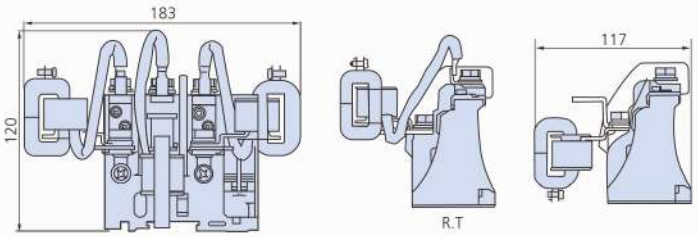
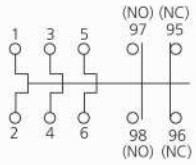
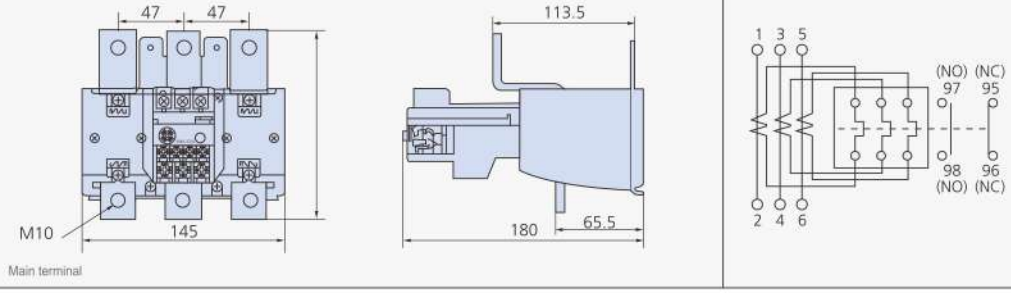
OMH(K)100-630

Model	External dimensions (mm)	Contacts form
OMH(K)100	 	 0.48kg
OMH(K)150	 	 0.6kg
OMH(K)220	 	 2.5kg
OMH(K)630	 	

Mounting Dimensions & Wiring Diagram

Thermal overload 20 second level

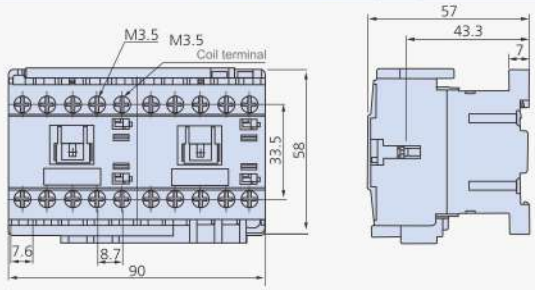
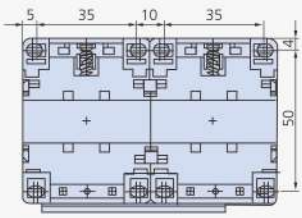
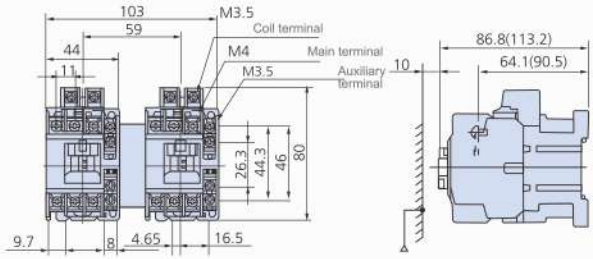
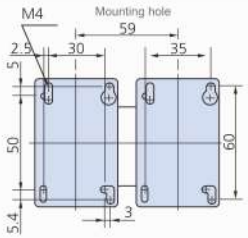
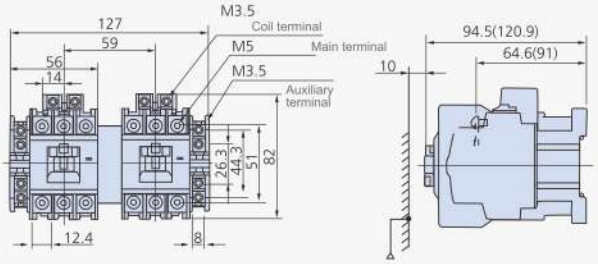
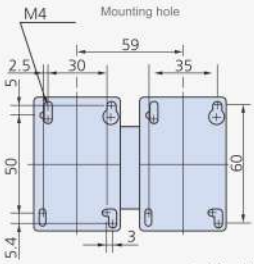
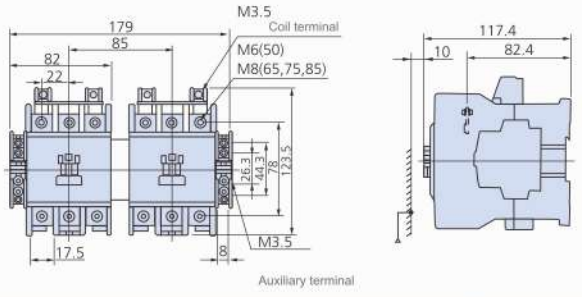
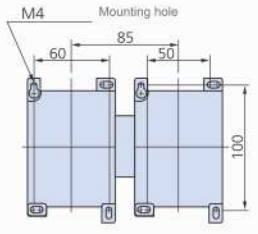
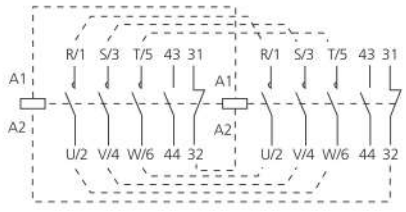
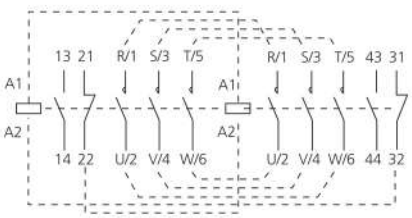
OMK022/L-220/L

Model	External dimensions (mm)	Contacts torm
OMK022/L		 0.11kg
OMK040/L		 0.17kg
OMK085/L		 0.3kg
OMK100/L-150/L		
OMK220/L		

Mounting Dimensions & Wiring Diagram

Three pole reversing type contactor

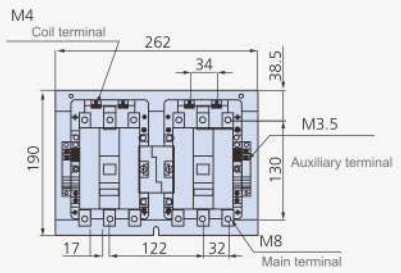
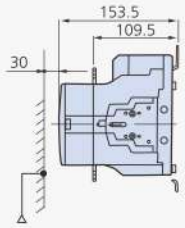
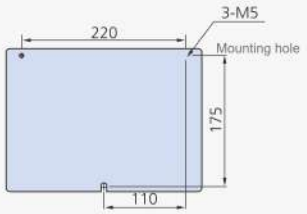
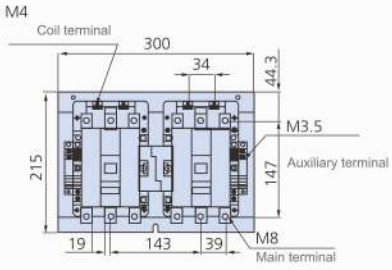
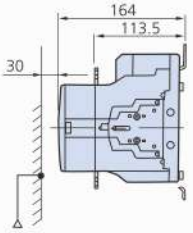
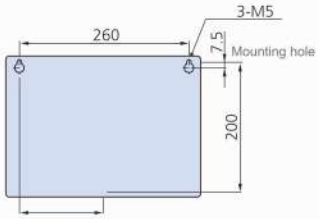
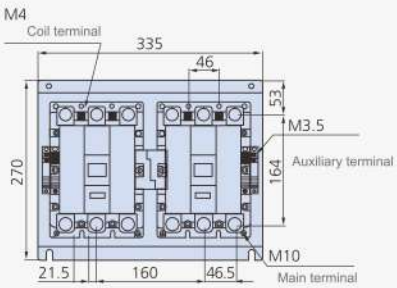
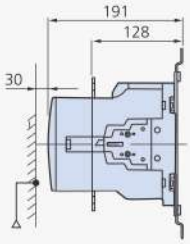
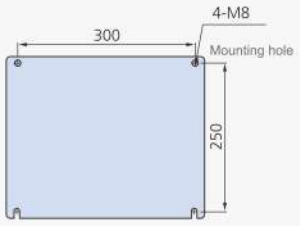
OMH(K)100-630

Model	External dimensions (mm)	Install size
OM1RC3P06M(D)+ML-6 OM1RC3P09M(D)+ML-6 OM1RC3P12M(D)+ML-6 OM1RC3P16M(D)+ML-6		 0.36kg
OM1RC3P009(D)+ML-9 OM1RC3P012(D)+ML-9 OM1RC3P018(D)+ML-9 OM1RC3P022(D)+ML-9		 OM1RC3P09 OM1RC3P18
OM1RC3P032(D)+ML-9 OM1RC3P040(D)+ML-9		 1.0(1.44)kg
OM1RC3P050(D)+ML-9 OM1RC3P065(D)+ML-9 OM1RC3P075(D)+ML-9 OM1RC3P085(D)+ML-9 OM1RC3P100(D)+ML-180 OM1RC3P125(D)+ML-180 OM1RC3P150(D)+ML-180 OM1RC3P180(D)+ML-180 OM1RC3P220(D)+ML-180		 2.1(2.2)kg
Contacts form	OM1RC3P009(D)-022(D)+ML  Note)* The value in the bracket is for tributary coil type	OM1RC3P032(D)-085(D)+ML 

Mounting Dimensions & Wiring Diagram

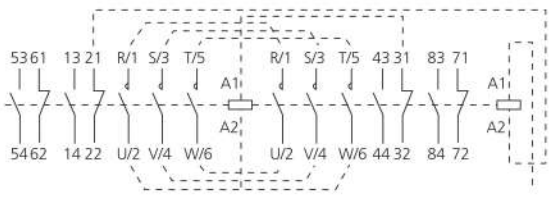
Three pole reversing type contactor

OM1RC3P100-180

Model	External dimensions (mm)	Install size
OM1RC3P100+ML-100	 	 6.7kg
OM1RC3P150+ML-100	 	 8.1kg
OM1RC3P180+ML-180 OM1RC3P220+ML-180	 	 12.9kg

OM1RC3P100-220+ML

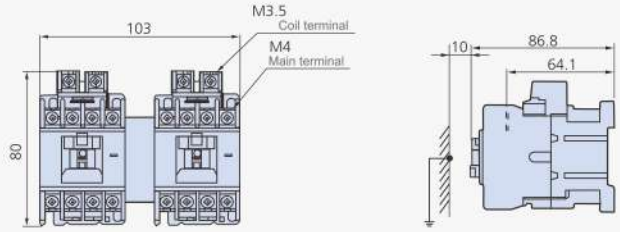
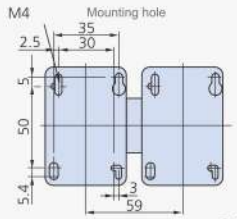
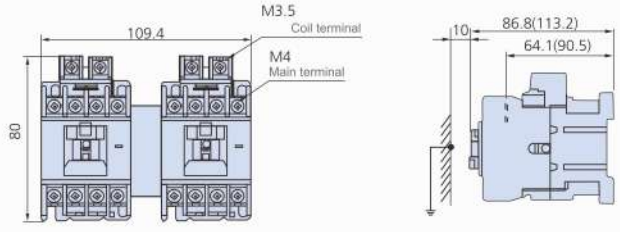
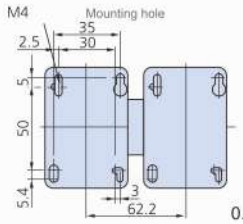
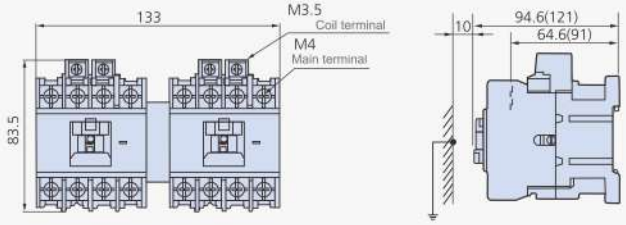
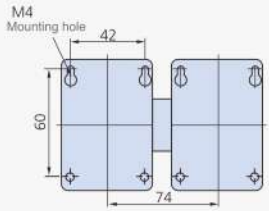
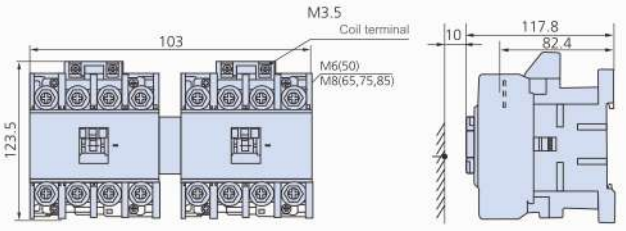
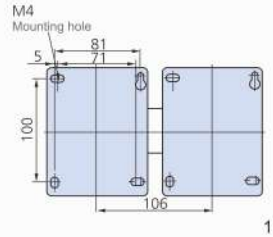
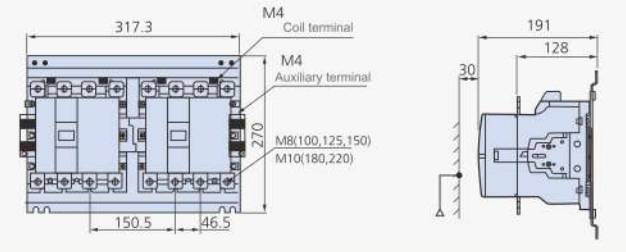
Contacts form

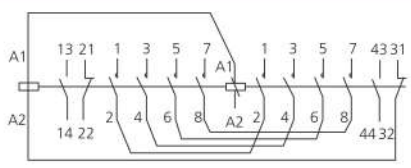
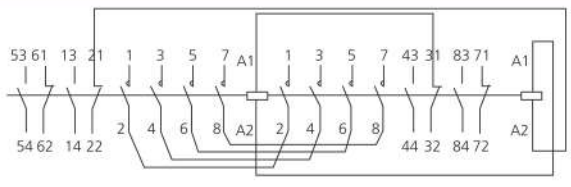


Mounting Dimensions & Wiring Diagram

Four pole reversing type contactor

OM1RC4P9(D)-220(D)

Model	External dimensions (mm)	Install size
OM1RC4P009+ML-9 OM1RC4P012+ML-9 OM1RC4P018+ML-9 OM1RC4P022+ML-9		 3.33kg
OM1RC4P009D+ML-9 OM1RC4P012D+ML-9 OM1RC4P018D+ML-9 OM1RC4P022D+ML-9		 0.4kg
OM1RC4P032D+ML-9 OM1RC4P040D+ML-9		 0.59kg
OM1RC4P050(D)+ML-9 OM1RC4P065(D)+ML-9 OM1RC4P075(D)+ML-9 OM1RC4P085(D)+ML-9		 1.2kg
OM1RC4P100(D)+ML-100 OM1RC4P125(D)+ML-100 OM1RC4P150(D)+ML-100 OM1RC4P180(D)+ML-180 OM1RC4P220(D)+ML-180		

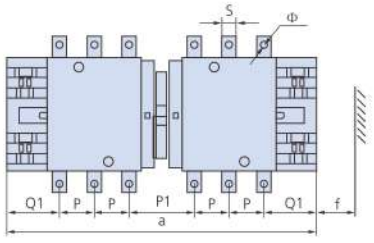
Contacts form	OM1RC4P009(D)+085(D)+ML	OM1RC4P100(D)+220(D)+ML
		

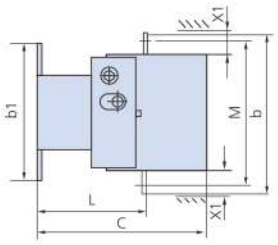
Mounting Dimensions & Wiring Diagram

3、 Three or four pole reversing type contactor

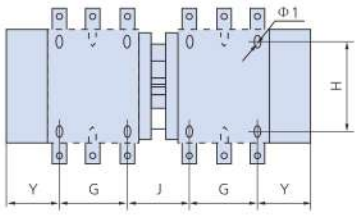
OM1RC3P330-630

External dimensions (mm)



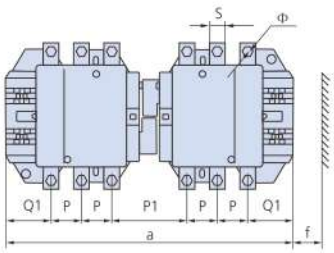


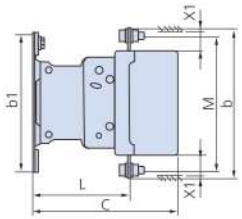
Install size



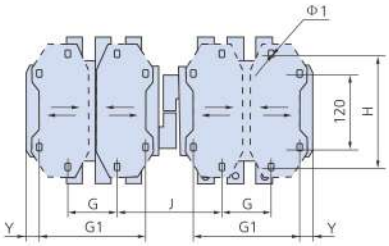
Model	a	p	p1	Q1	s	ϕ	f	b	b1	M	C	L	G	J	H	ϕ1	Y	X1	
																		500V≤	>500V
OM1RC3P330	445	48	105	74	25	M10	143	206	145	181	219	145	96	122	120~106	6.5	38	10	15
OM1RC4P330	541	48	105	74	25	M10	143	206	145	181	219	145	96	170	120~106	6.5	38	10	15

External dimensions (mm)



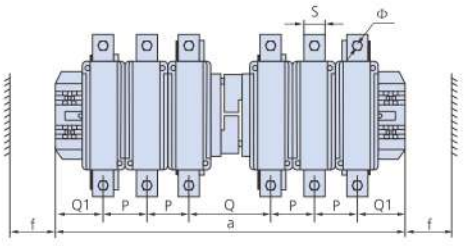


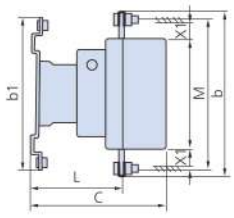
Install size



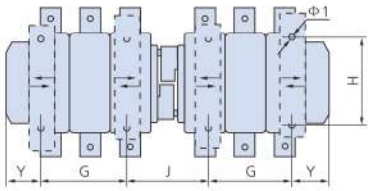
Model	a	p	p1	Q1	s	ϕ	f	b	b1	M	C	L	G	G1	J	H	ϕ1	Y	X1	
																			500≤	740<
OM1RC3P400	445	48	105	74	25	M10	151	206	209	181	219	145	80	170	156	170-180	8.5	19.5	15	20
OM1RC4P400	541	48	105	74	25	M10	151	206	209	181	219	145	80	170	156	170-180	8.5	67.5	15	20
OM1RC3P500	485	55	111	77	30	M10	169	238	209	208	232	146	80	170	156	170-180	8.5	39.5	15	20
OM1RC4P500	595	55	111	77	30	M10	169	238	209	208	232	146	140	230	156	170-180	8.5	34.5	15	20

External dimensions (mm)





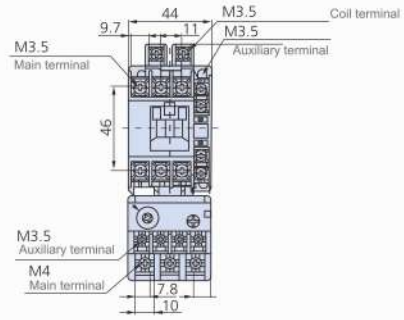
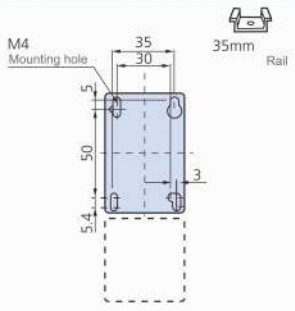
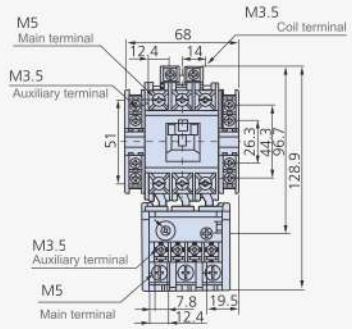
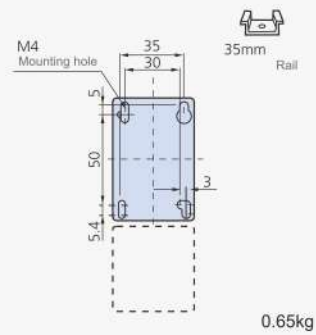
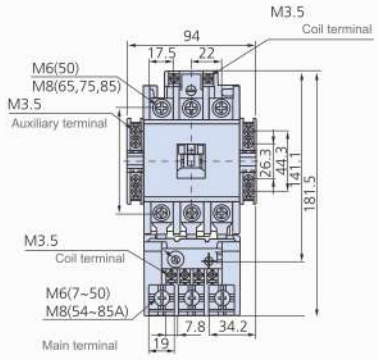
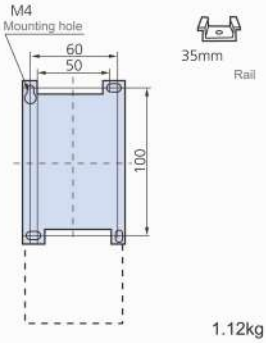
Install size

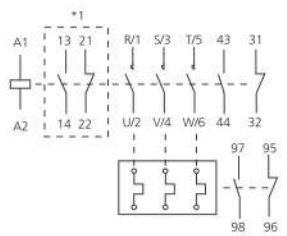
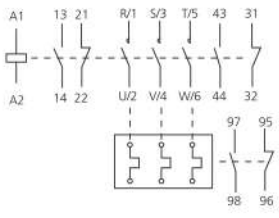
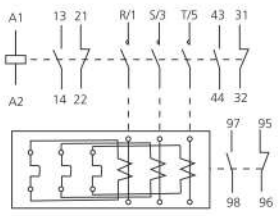


Model	a	p	p1	Q1	s	ϕ	f	b	b1	M	C	L	G	J	H	ϕ1	Y	X1	
																		500≤	740<
OM1RC3P630	636	80	138	89	40	M12	201	304	280	264	255	155	180(100-195)	139	180-190	10.5	68.5	20	30
OM1RC4P630	796	80	138	89	40	M12	201	304	280	264	255	155	240(150-275)	139	180-190	10.5	68.5	20	30
OM1RC3P800	636	80	138	89	40	M12	201	304	280	264	255	155	180(100-195)	139	180-190	10.5	68.5	20	30

Mounting Dimensions & Wiring Diagram

Motor starter

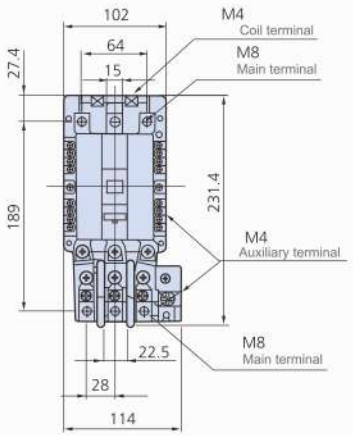
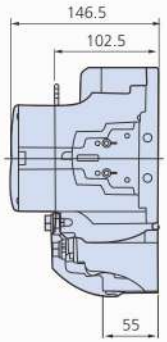
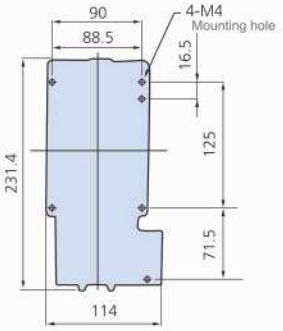
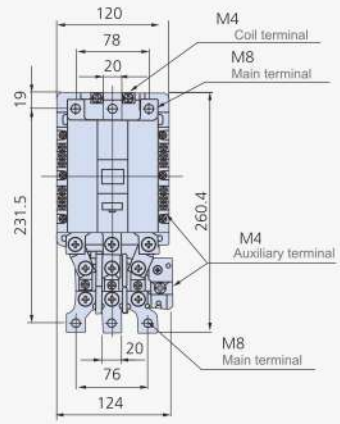
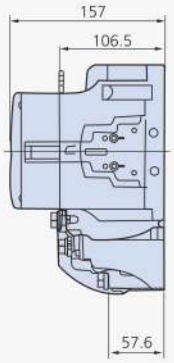
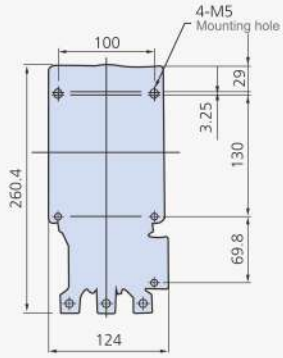
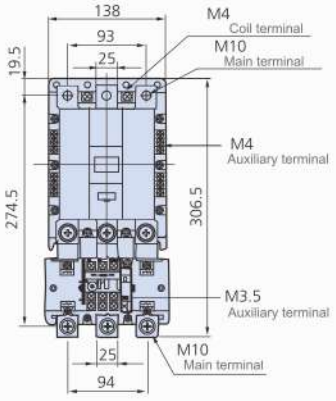
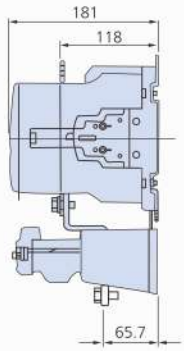
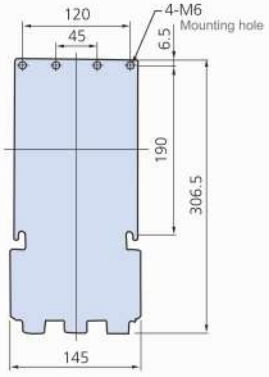
Model	External dimensions (mm)	Install size
OM1C3P009-OMH022 OM1C3P012-OMH022 OM1C3P018-OMH022 OM1C3P022-OMH022		 OM1C3P009,012+OMH(K) OM1C3P018,022+OMH(K)
OM1C3P032-OMH040 OM1C3P040-OMH040		 0.65kg
OM1C3P050-OMH085 OM1C3P065-OMH085 OM1C3P075-OMH085 OM1C3P085-OMH085		 1.12kg

Contacts form	OM1C3P009-O22+OMH	OM1C3P032-150+OMH	OM1C3P180+OMH
	 note)*1. Assistant contacts 2a2b		

Mounting Dimensions & Wiring Diagram

Motor starter

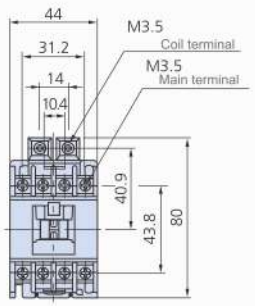
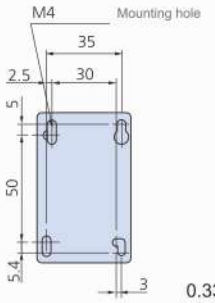
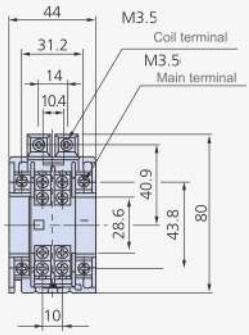
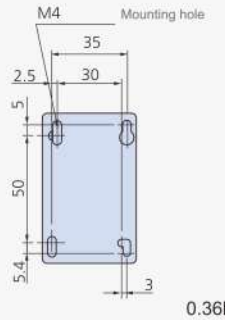
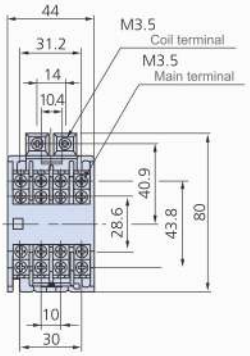
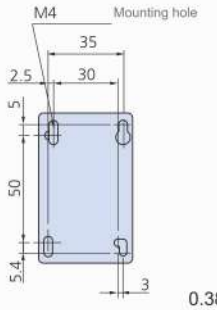
OM1RC3P100-180

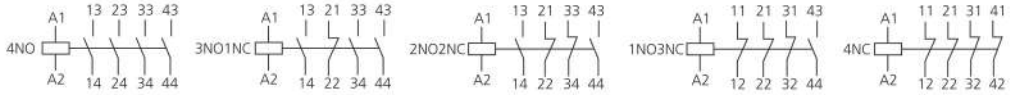
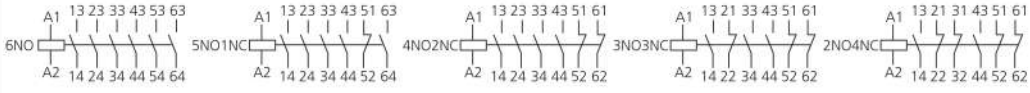
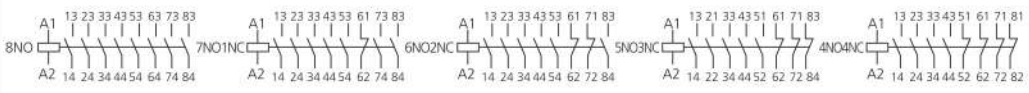
Model	External dimensions (mm)	Install size
OM1C3P100+OMH100 OM1C3P125+OMH100	 	 3.4kg
OM1C3P150+OMH150	 	 4kg
OM1C3P180+OMH220 OM1C3P220+OMH220	 	 7.9kg

Mounting Dimensions & Wiring Diagram

Intermediate relay, AC coil

OM1RP4-8

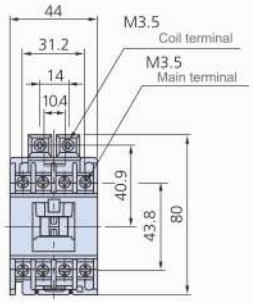
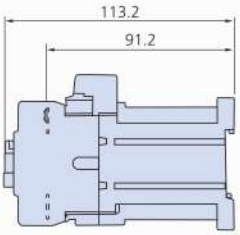
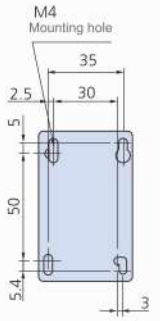
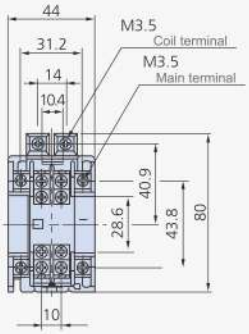
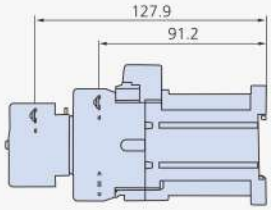
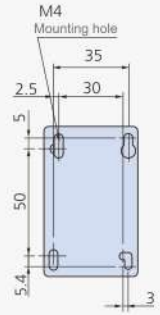
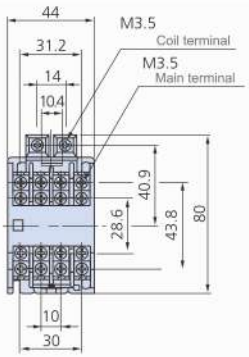
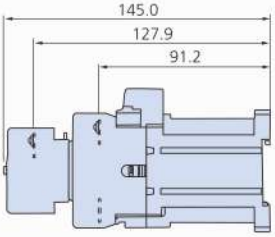
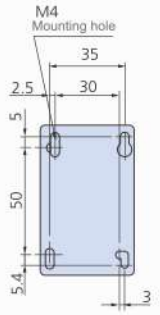
Model	External dimensions (mm)	Install size
OM1RP4		 0.33kg
OM1RP6		 0.36kg
OM1RP8		 0.38kg

Contacts form	OM1RP4	
	OM1RP6	
	OM1RP8	

Mounting Dimensions & Wiring Diagram

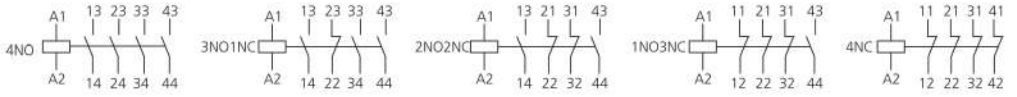
Intermediate relay, DC coil

OM1RP4D-8D

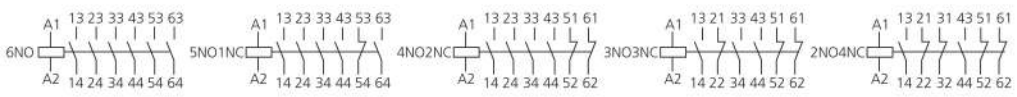
Model	External dimensions (mm)	Install size
OM1RP4D	 	 0.55kg
OM1RP6D	 	 0.57kg
OM1RP8D	 	 0.59kg

Contacts form

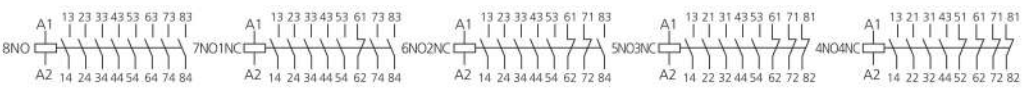
OM1RP4D



OM1RP6D

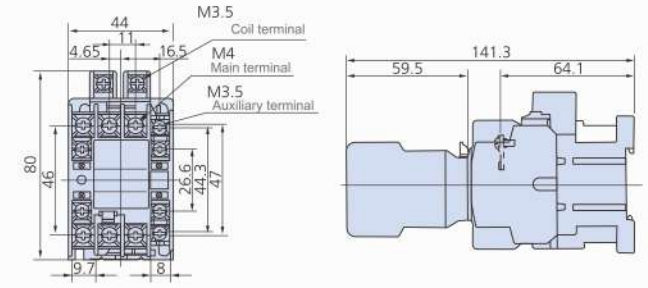
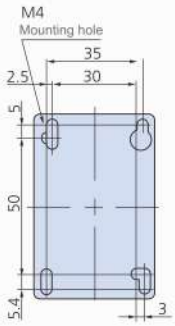
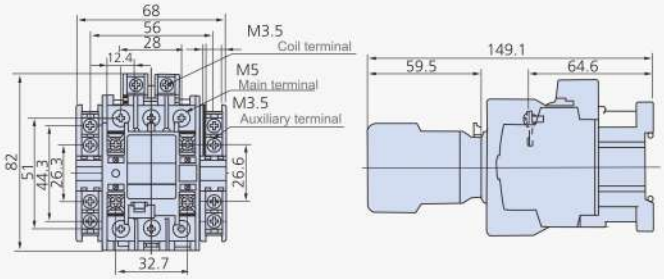
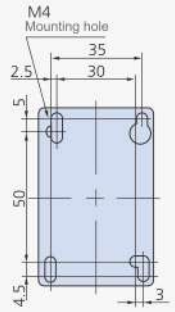
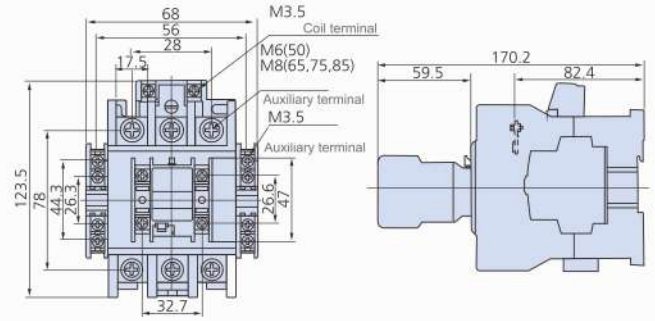
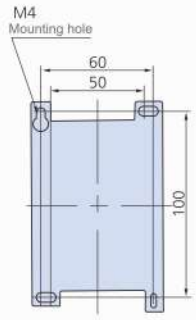


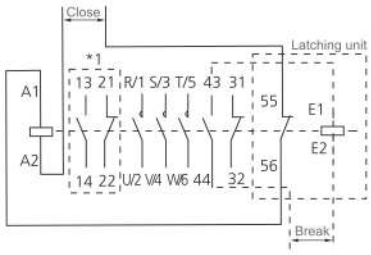
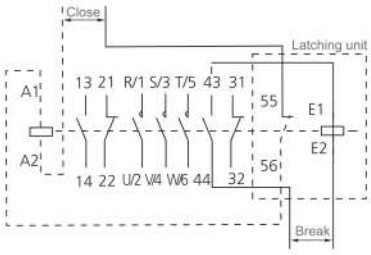
OM1RP8D



Mounting Dimensions & Wiring Diagram

Michanical latch type contactor

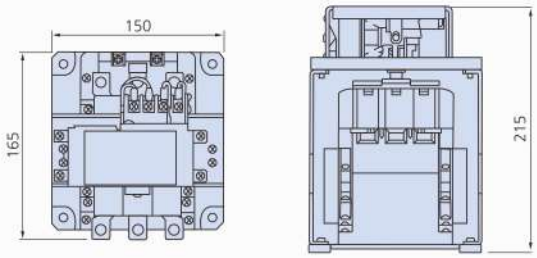
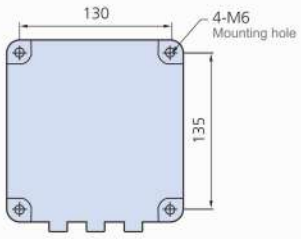
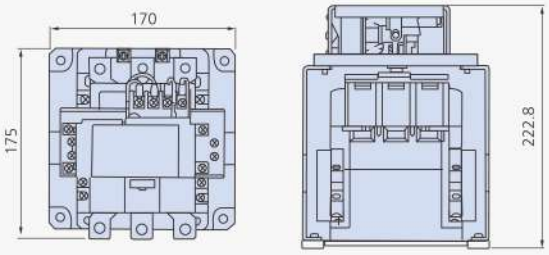
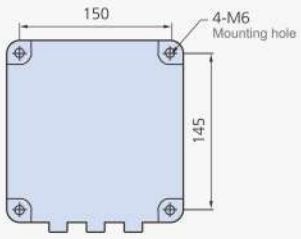
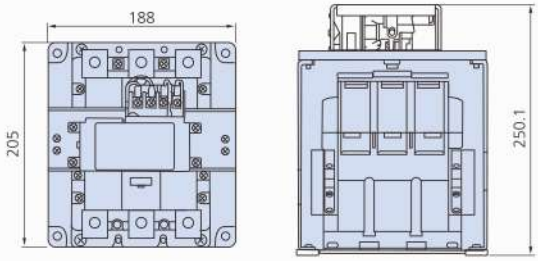
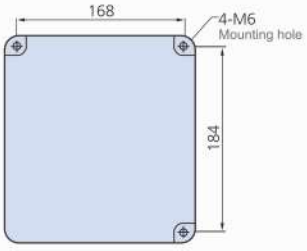
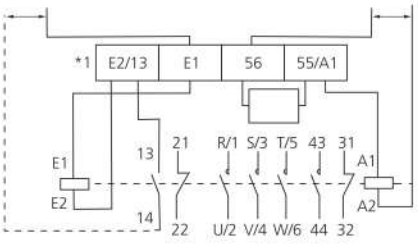
Model	External dimensions (mm)	Install size
OM1C3P009L OM1C3P012L OM1C3P018L OM1C3P022L		 OM1C3P009L,012L OM1C3P018L,022L
OM1C3P032L OM1C3P040L		 0.59kg
OM1C3P050L OM1C3P065L OM1C3P075L OM1C3P085L		 1.14kg

Contacts form	OM1C3P009L-022L	OM1C3P032L-085L
		

Mounting Dimensions & Wiring Diagram

Latch type contactor

OM1C3P100L-220L

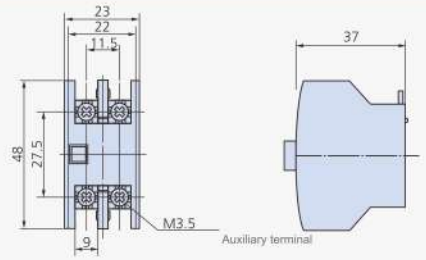
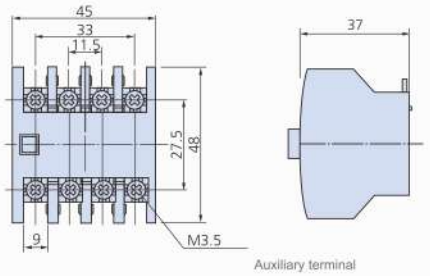
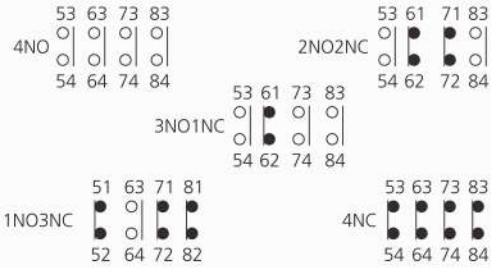
Model	External dimensions (mm)	Install size
OM1C3P100L OM1C3P125L		 4.5kg
OM1C3P150L		 5.1kg
OM1C3P180L OM1C3P220L		 7.4kg
Contacts form	OM1C3P100L-220L 	

1.Note) Dotted line is wiring for customer

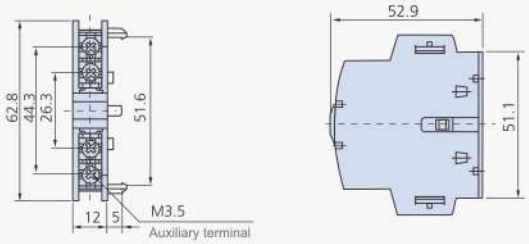
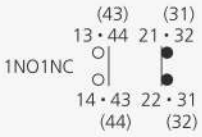
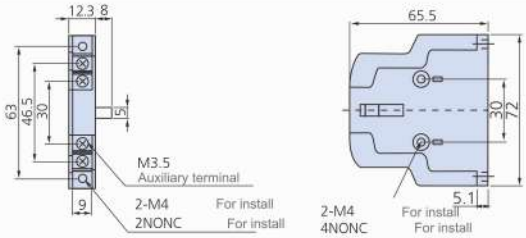
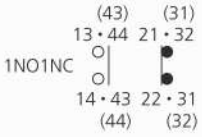
Mounting Dimensions & Wiring Diagram

Assistant contacts

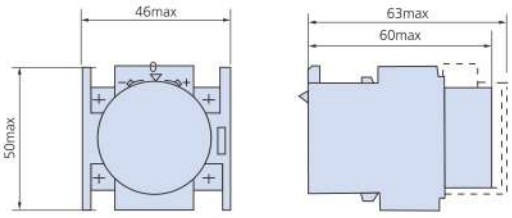
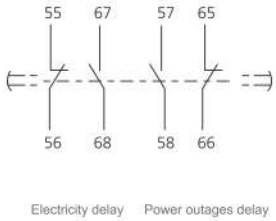
AUC-2,4

Model	External dimensions (mm)	Chooses types
AUC-2		
AUC-4		

Assistant contacts(side on install)

Model	External / Mounting dimensions (mm)	Chooses types
AUC-1		
AUC-100		

Delayed unit

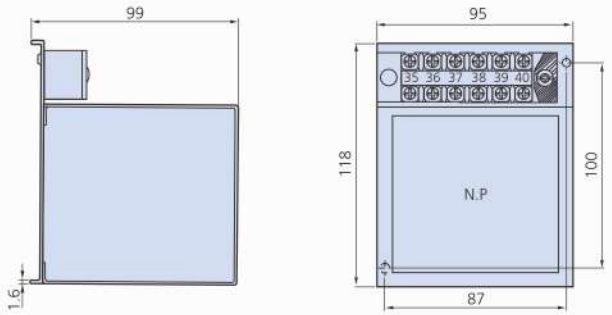
Model	External / Mounting dimensions (mm)	Chooses types
OMDO-(0,1,2)M OMDO-(0,1,1)B		

Mounting Dimensions & Wiring Diagram

Overtime disconnection type contactor

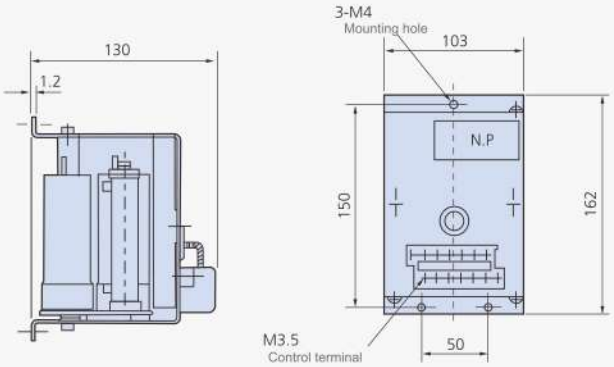
AD-9~100

AD-9



0.85kg

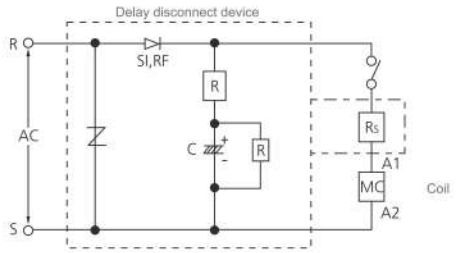
AD-50
AD-100

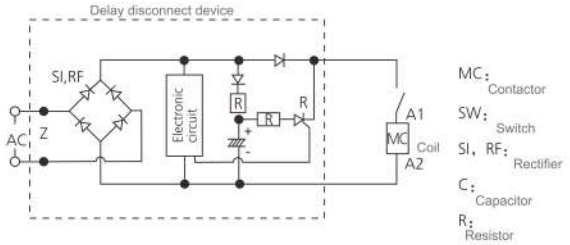


0.8kg

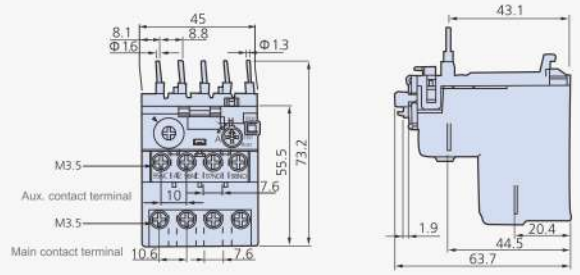
Control circuit diagram

AD-9	AD-50~100





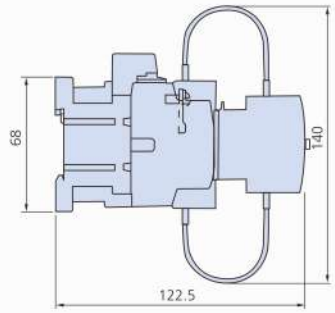
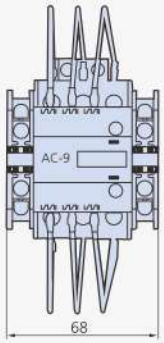
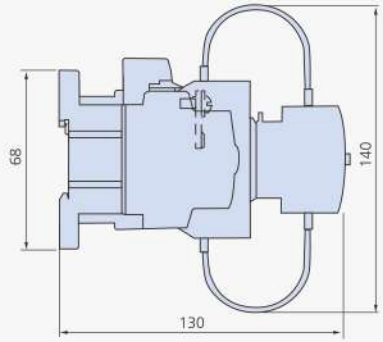
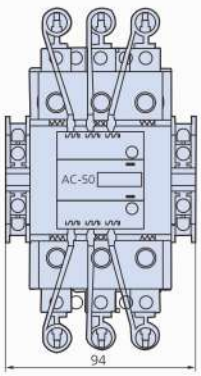
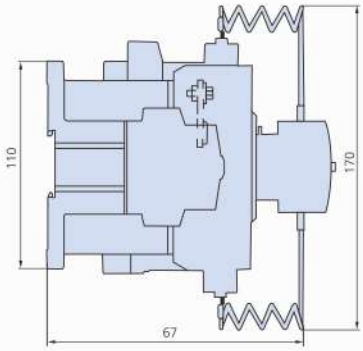
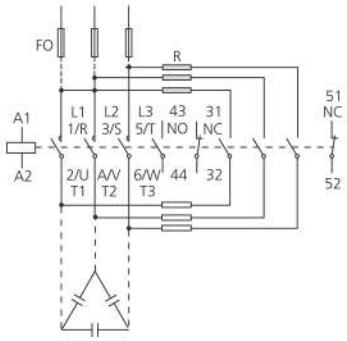
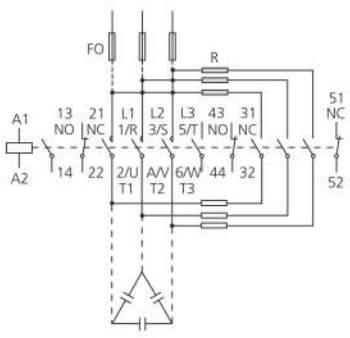
Mini relay

Model	External dimensions (mm)	Contacts torm
OMH(K)12M		

0.1kg

Mounting Dimensions & Wiring Diagram

Assistant contacts

Model	External dimensions (mm)	
OM1CC3P009-022		
OM1CC3P032-040		
OM1CC3P050-085		
	OM1CC3P009-022	OM1CC3P032-085
Contacts form		

Enclosed Type Magnetic Starter(Push Button Type)



Type designation

OM	S	MB	22
OMICRON	Enclosed type magnetic motor	Rated current (AC 440V)	Application

S	Special Protection
G	General Protection

9	4KW	75	37KW
12	5.5KW	85	45KW
18	7.5KW	100	55KW
22	11KW	125	60KW
32	15KW	150	75KW
40	18.5KW	180	90KW
50	22KW	220	132KW
65	30KW		

-	Steel case
B	Steel case (push button type)
M	Plastic case
MB	Plastic case(push button type)

Protection grade

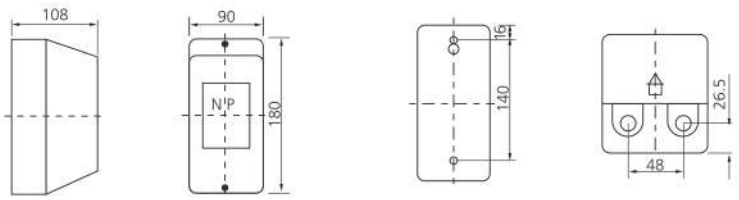
Operation voltage

Same with the magnetic contactors

Rated capacity

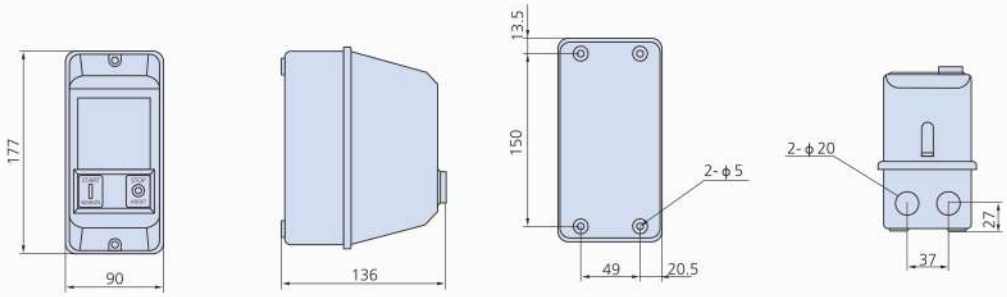
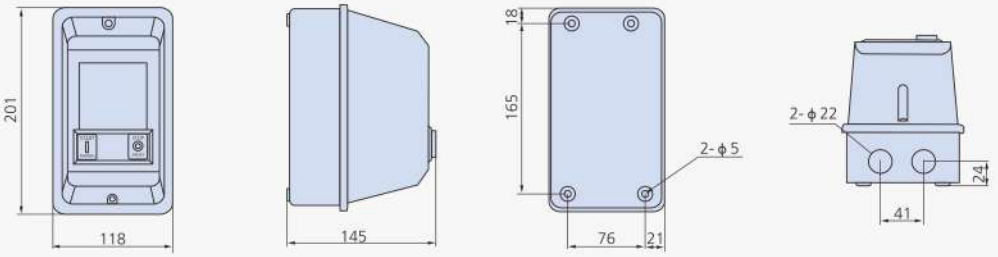
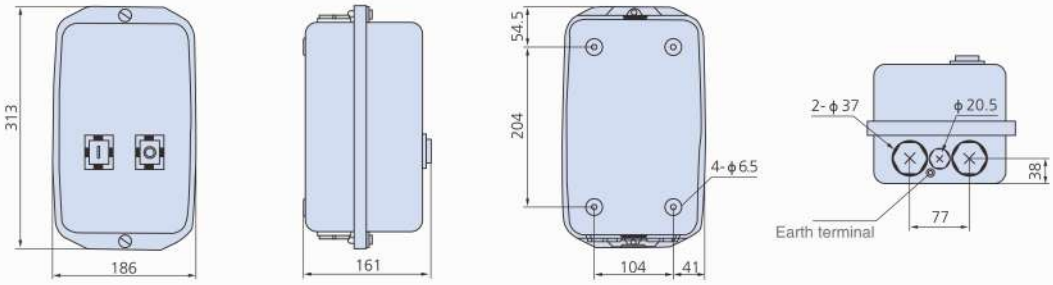
Model	Rated capacity (KW)					Rated current(A)			AC1 AC1 Type
	Single-phase moter		Three-phase motor AC3 Type			Three-phase motor AC3 Type			
	110V	220V	200V~220V	380V~440V	500V~550V	200V~220V	380V~440V	500V~550V	A
OMSMB09(OMGMB09)	0.4	0.8	2.5	4	4	11	9	7	25
OMSMB12(OMGMB12)	0.5	1	3.5	5.5	7.5	13	12	12	25
OMSMB18(OMGMB18)	0.75	1.5	4.5	7.5	7.5	18	18	13	40
OMSMB22(OMGMB22)	0.9	1.8	5.5	11	15	22	22	22	40
OMSMB32	1.2	-	7.5	15	18.5	32	32	28	50
OMSMB40	1.7	-	11	18.5	22	40	40	32	60
OMSMB50	-	-	15	22	30	55	50	43	80
OMSMB60	-	-	18.5	30	33	65	65	60	100
OMSMB75	-	-	22	37	37	75	75	64	110
OMSMB85	-	-	25	45	45	85	85	75	135

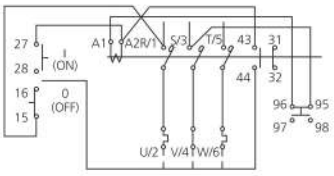
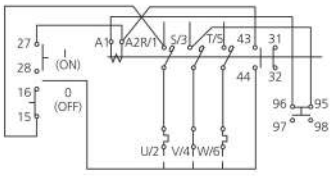
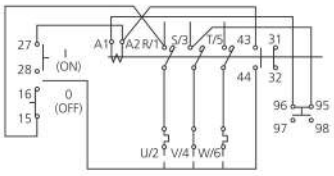
External & Mounting dimensions

Model	External / mounting dimension
OMGMB09-22	

Enclosed Type Magnetic Starter(Push Button Type)

External & Mounting dimensions

Model	External / mounting dimension
OMSMB09-22	
OMSMB32-40	
OMSMB50-85	

	OMSMB09-22	OMSMB32-40	OMSMB50-85
Contacts form			

OMSCB5 Magnetic Starter

OMSCB5

Application

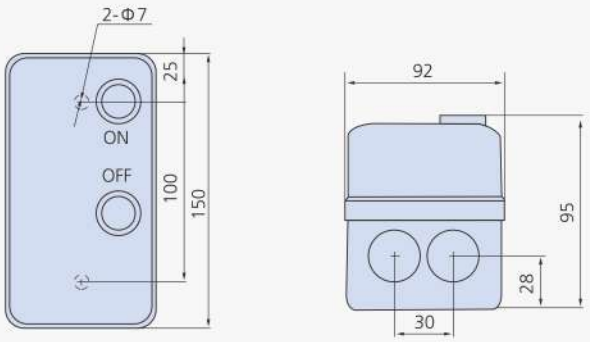
The OMSCB5 electromagnetic starter is to control the direct startting and stopping of AC motor of rated voltage of up to 550V, rated frequency of 50Hz or 60Hz, and rated control power of up to 9kW, and also protect the squirrel-cage type motor from open phase, overload, and no-voltage.

OMSCB5 electrical magnetic staonter acoording to IEC60947-4-1 & GB/T14048.4 Standard.

Type	Rated Power(kw)			Rated current(A)			AC 1 duty(A)	Setting current(A)
	AC 3 duty			AC 3 duty				
	200V~ 220V	380V~ 440V	500V~ 550V	200V~ 220V	380V~ 440V	500V~ 550V		
OMSCB5	4	7.5	9	18	17	17	32	2-4,4-8,8-16
OMSCMB5	4	7.5	9	18	17	17	32	2-4,4-8,8-16

OM1C

External & Mounting dimensions



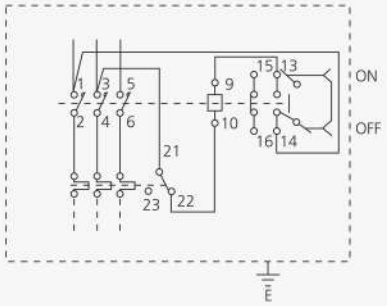
2-4A

4-8A

8-16A

OMT5N

Diagram of electric principle



OMR050H Omni-Sealed High-Voltage DC Contactor

Product application

The product is mainly applied for the control of DC power supply systems including electric buses, charging piles, EVs, automotive air conditioners, and power supplies of communication, etc.

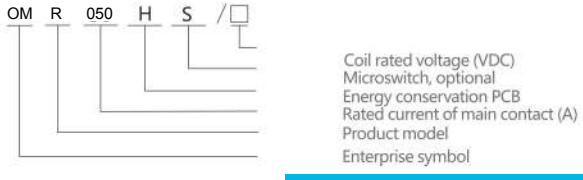
Technical specifications (normal condition) (non-polarity of the main contact circuit)

Electrical					
Contact type	Normally open contact		Max. breaking current (A)		500A,(320VCD)1time
Contact rated load (DC)	12V~1000V,50A		Withstand voltage of medium	Between contact and coil	2200VAC,50Hz,1min,
Contact voltage drop (mV)	≤100			Between open contacts	No breakdown No flashover
Pull-in voltage (DC)	≤75%Us		Electrical life of load conversion	1000V,20A	≥2000
Release voltage (DC)	≤7.0			900V,30A	≥2000
Response time (ms)	≤30			750V,50A	≥6000
Release time (ms)	≤20			450V,50A	≥10000
Max. instantaneous current	350A,≤1s		Mechanical life(ten thousands times)		≥30
Coil voltage (DC)	(9-36)V		Temperature rise of leading-out terminal(K)		≤65
Coil direct current and power	Starting current	≤1.0A	Coil temperature rise(K)		≤85
	Stand-by power	≤4.0W	Contact material		Silver alloy
Action frequency	≤1Hz		Coil working system		Long-term
Insulation resistance (MΩ)	≥100				

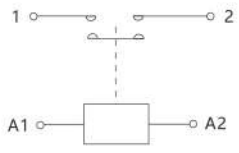
Mechanical/Environmental			
Outgoing moment of contact M5(N.m)	as recommended	Installation type	Arbitrary
Coil leading-out type	High temperature resistant insulated multiple copper core wire	Vibration	2.5g, (5~50) Hz Sinusoidal
Operating environment temperature	(-40 ~ +85) ℃	Impact	50g, 11ms (/half sinusoid)
Protection grade	IP67		

Coil specification conversion(20℃)		
(V) Voltage specification(V)	Coil resistance (1±10%) Ω	
(9-36)	6.0	tested on PCB

Model

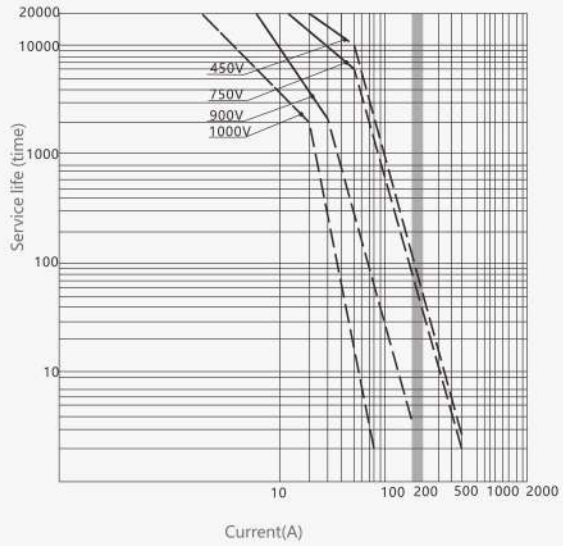


Electric schematic diagram

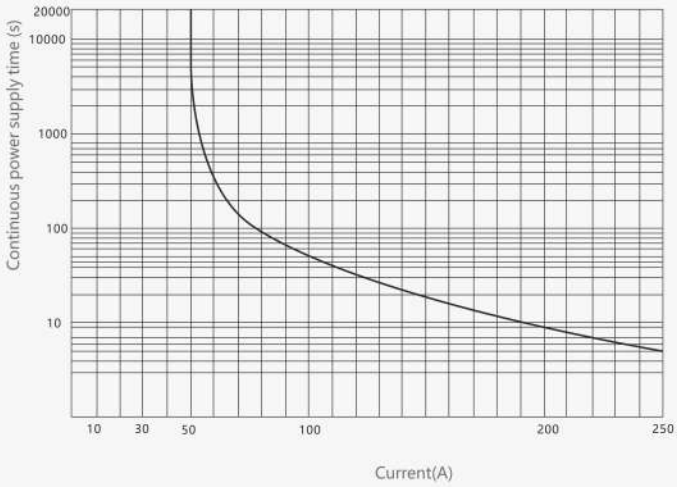


OMR050H Omni-Sealed High-Voltage DC Contactor

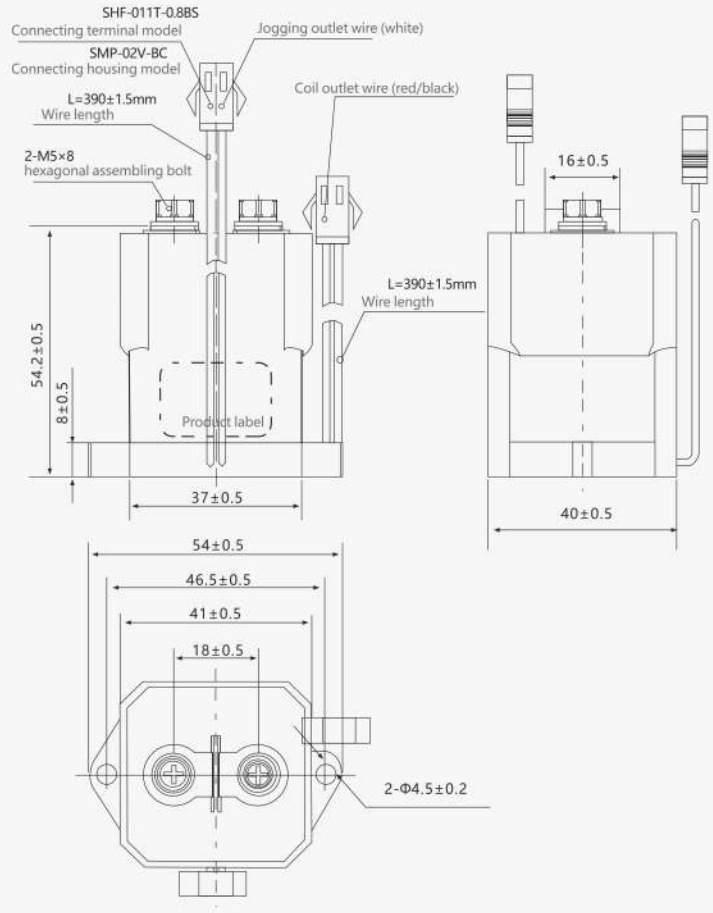
Load switching characteristic curve (estimated)



Load bearing characteristic curve (estimated)



Dimension and installation drawing



For example: OMR050HS /(9-36)V
It means that the main contact rated current is 50A, the rated voltage is DC750V, and the coil voltage is (9-36)V for common use, including normally open DC contactor with microswitch.

OMR100H Omni-Sealed High-Voltage DC Contactor

Product application

The product is mainly applied for the control of DC power supply systems including electric buses, charging piles, EVs, automotive air conditioners, and power supplies of communication, etc.

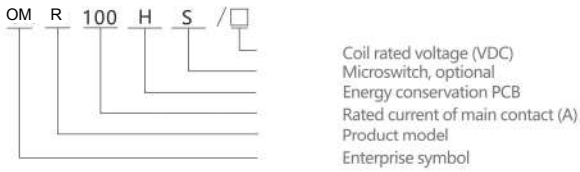
Technical specifications (normal condition) (non-polarity of the main contact circuit)

Electrical					
Contact type	Normally open contact		Max. breaking current (A)		500A,(320VCD)1time
Contact rated load (DC)	12V~1000V,100A		Withstand voltage of medium	Between contact and coil	2200VAC,50Hz,1min,
Contact voltage drop (mV)	≤100			Between open contacts	No breakdown No flashover
Pull-in voltage (DC)	≤75%Us		Electrical life of load conversion	1000V,50A	≥2000
Release voltage (DC)	≤7.0			900V,70A	≥2000
Response time (ms)	≤30			750V,100A	≥6000
Release time (ms)	≤20			450V,100A	≥10000
Max. instantaneous current	1400A,≤1s		Max. breaking current(A)		2000A,(320VCD)1time
Coil voltage (DC)	(9-36)V		Mechanical life(ten thousands times)		≥30
Coil direct current and power	Starting current	≤2.5A	Temperature rise of leading-outterminal		≤65
	Stand-by power	≤4.0W	Coil temperature rise(K)		≤85
Action frequency	≤1Hz		Contact material		Silver alloy
Insulation resistance (MΩ)	≥100		Coil working system		Long-term

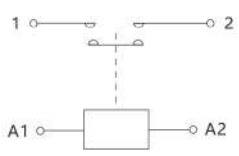
Mechanical/Environmental			
Outgoing moment of contact M5(N.m)	as recommended	Installation type	Arbitrary
Coil leading-out type	High temperature resistant insulated multiple copper core wire	Vibration	2.5g, (5~50) Hz Sinusoidal
Operating environment temperature	(-25 ~ +85) ℃	Impact	50g, 11ms (half sinusoid)
Protection grade	IP67		

Coil specification conversion(20℃)		
Voltage specification(V)	Coil resistance (1±10%) Ω	
12	3.0	
24		

Model

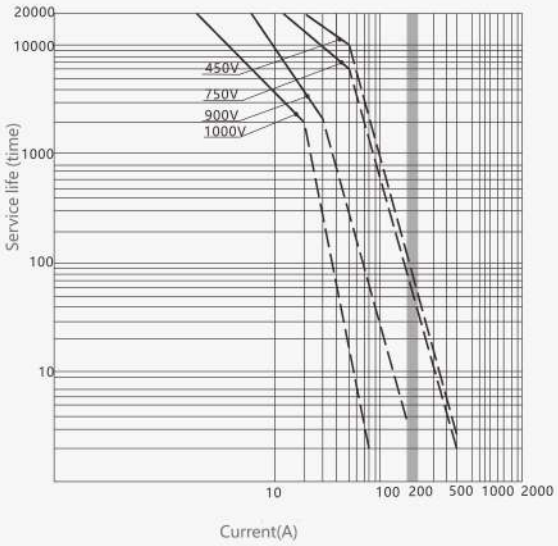


Electric schematic diagram

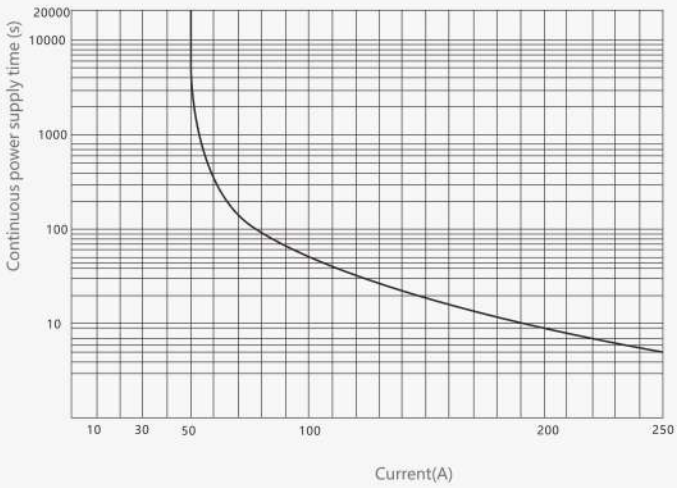


OMR100H Omni-Sealed High-Voltage DC Contactor

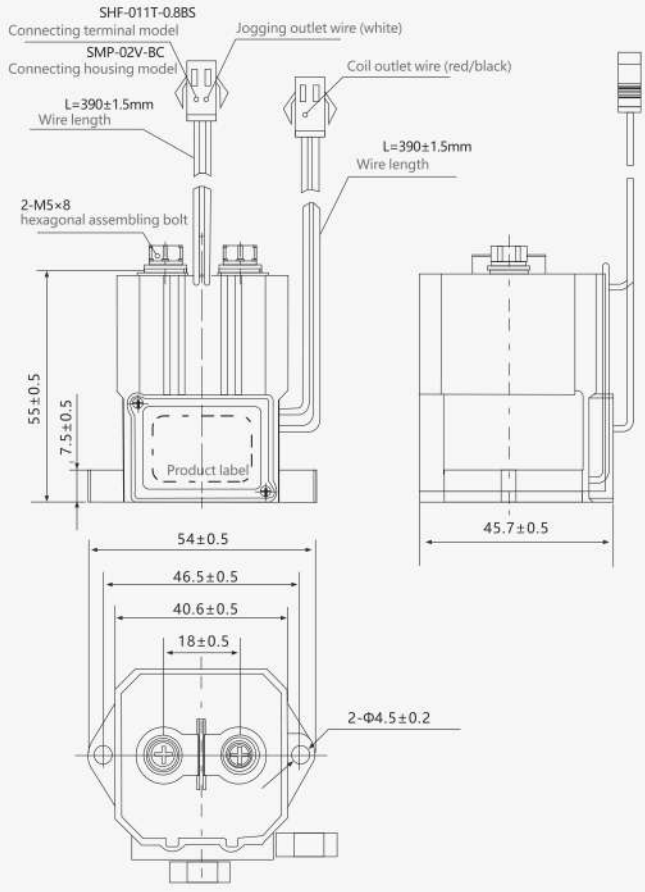
Load switching characteristic curve (estimated)



Load bearing characteristic curve (estimated)



Dimension and installation drawing



Order specifications

For example: OMR100HS

It means that the main contact rated current is 100A, the rated voltage is DC750V, and the coil voltage is 12V for common use, including normally open DC contactor with microswitch.

OMR150H Omni-Sealed High-Voltage DC Contactor

Product application

The product is mainly applied for the control of DC power supply systems including electric buses, charging piles, EVs, automotive air conditioners, and power supplies of communication, etc.

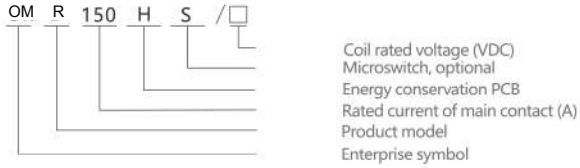
Technical specifications (normal condition) (non-polarity of the main contact circuit)

Electrical					
Contact type	Normally open contact		Max. breaking current (A)		2000A,(320VCD)1time
Contact rated load (DC)	12V~1000V,150A		Withstand voltage of medium	Between contact and coil	2200VAC,50Hz,1min,
Contact voltage drop (mV)	≤100			Between open contacts	No breakdown No flashover
Pull-in voltage (DC)	≤75%Us		Electrical life of load conversion	1000V,100A	≥1000
Release voltage (DC)	≤7.0			900V,150A	≥1000
Response time (ms)	≤30			750V,150A	≥6000
Release time (ms)	≤20			450V,150A	≥10000
Max. instantaneous current	1400A,≤1s		Mechanical life(ten thousands times)		≥30
Coil voltage (DC)	(9-36)V		Temperature rise of leading-outterminal		≤65
Coil direct current and power	Starting current	≤2.5A	Coil temperature rise(K)		≤85
	Stand-by power	≤4.0W	Contact material		Silver alloy
Action frequency	≤1Hz		Coil working system		Long-term
Insulation resistance (MΩ)	≥100				

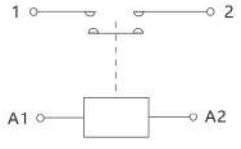
Mechanical/Environmental			
Outgoing moment of contact M5(N.m)	as recommended	Installation type	Arbitrary
Coil leading-out type	High temperature resistant insulated multiple copper core wire	Vibration	2.5g, (5~50) Hz Sinusoidal
Operating environment temperature	(-25~+85) ℃	Impact	50g, 11ms (/half sinusoid)
Protection grade	IP67		

Coil specification conversion(20℃)		
(V) Voltage specification(V)	Coil resistance (1±10%) Ω	
12	3.0	
24		

Model

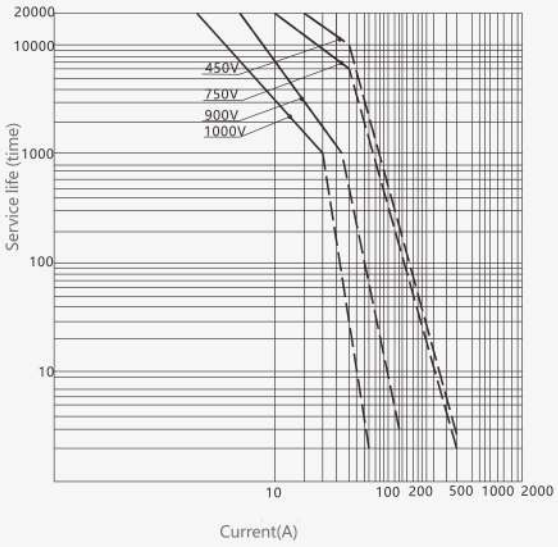


Electric schematic diagram

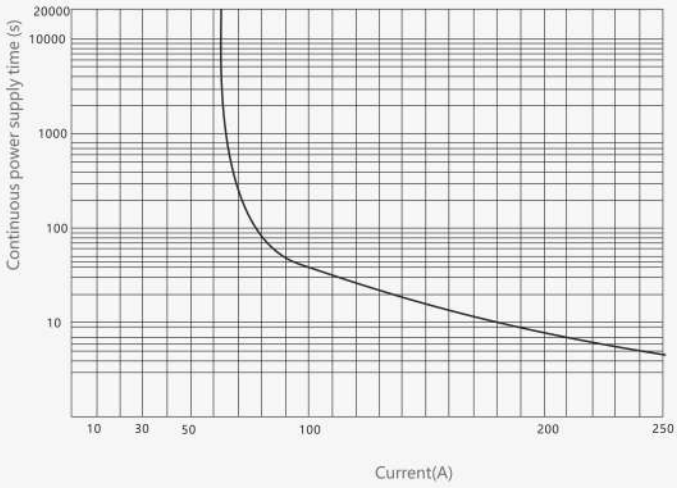


OMR150H Omni-Sealed High-Voltage DC Contactor

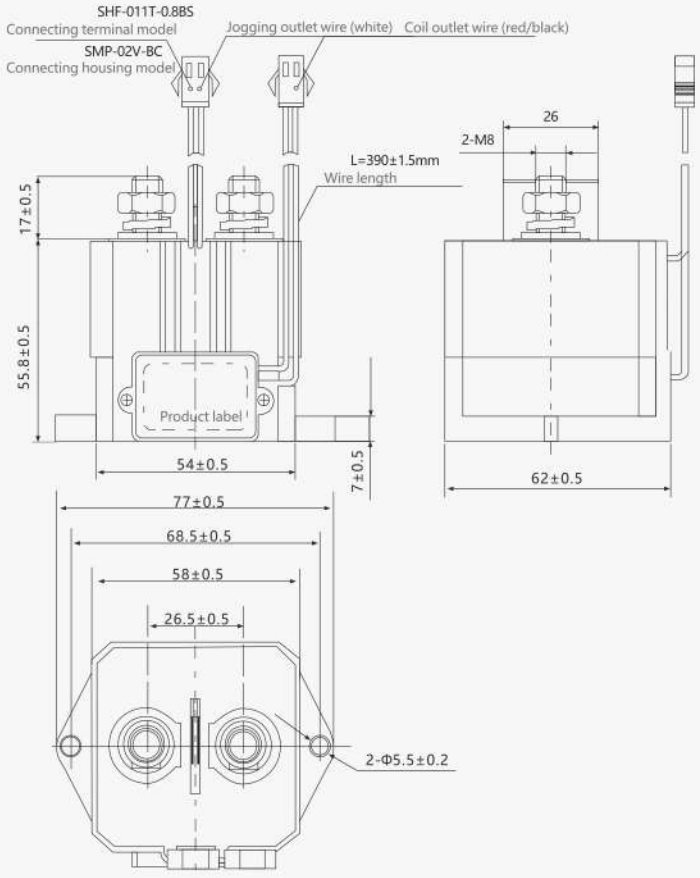
Load switching characteristic curve (estimated)



Load bearing characteristic curve (estimated)



Dimension and installation drawing



Order specifications

For example: OMR150HS

It means that the main contact rated current is 150A, the rated voltage is DC750V, and the coil voltage is 12V for common use, including normally open DC contactor with microswitch.

OMR200H Omni-Sealed High-Voltage DC Contactor

Product application

The product is mainly applied for the control of DC power supply systems including electric buses, charging piles, EVs, automotive air conditioners, and power supplies of communication, etc.

Technical specifications (normal condition) (non-polarity of the main contact circuit)

Electrical					
Contact type	Normally open contact		Max. breaking current (A)		2000A,(320VCD)1time
Contact rated load (DC)	12V~1000V,200A		Withstand voltage of medium	Between contact and coil	2200VAC,50Hz,1min,
Contact voltage drop (mV)	≤100			Between open contacts	No breakdown No flashover
Pull-in voltage (DC)	≤75%Us		Electrical life of load conversion	1000V,100A	≥1000
Release voltage (DC)	≤7.0V			900V,150A	≥1000
Response time (ms)	≤30			750V,200A	≥6000
Release time (ms)	≤20			450V,200A	≥10000
Max. instantaneous current	800A,≤1s		Mechanical life(ten thousands times)		≥30
Coil voltage (DC)	12V、24V		Temperature rise of leading-outterminal		≤65
Coil direct current and power	Starting current	≤2.5A	Coil temperature rise(K)		≤85
	Stand-by power	≤4.0W	Contact material		Silver alloy
Action frequency	≤1Hz		Coil working system		Long-term
Insulation resistance (MΩ)	≥100				

Mechanical/Environmental			
Outgoing moment of contact M5(N.m)	as recommended	Installation type	Arbitrary
Coil leading-out type	High temperature resistant insulated multiple copper core wire	Vibration	2.5g, (5~50) Hz Sinusoidal
Operating environment temperature	(-40 ~ +85) ℃	Impact	50g, 11ms (half sinusoid)
Protection grade	IP67		

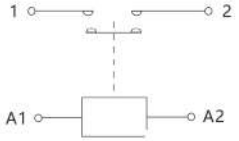
Coil specification conversion(20℃)		
Voltage specification(V)	Coil resistance (1±10%) Ω	
12	3.0	
24		

Model

OM R 200 H S /□

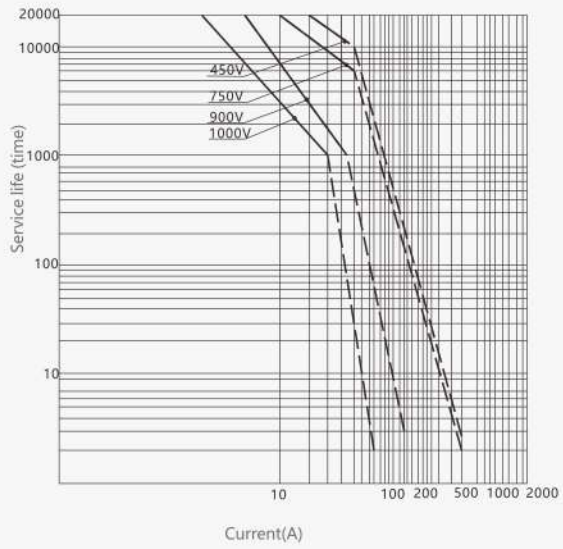
- Coil rated voltage (VDC)
- Microswitch, optional
- Energy conservation PCB
- Rated current of main contact (A)
- Product model
- Enterprise symbol

Electric schematic diagram

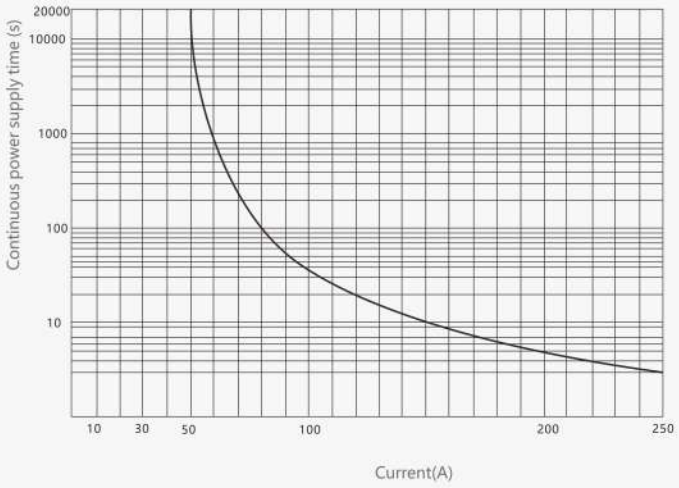


OMR200H Omni-Sealed High-Voltage DC Contactor

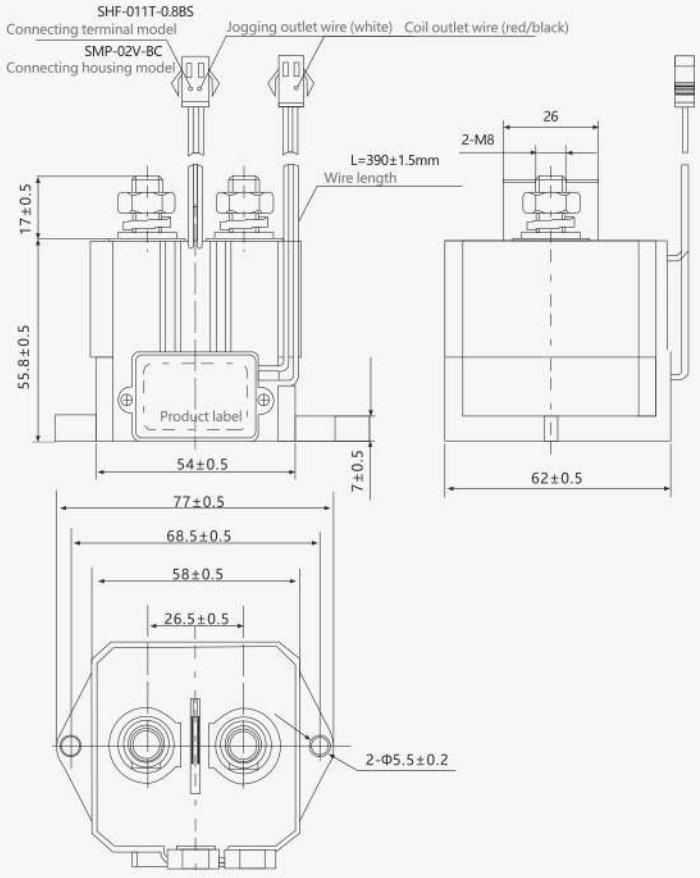
Load switching characteristic curve (estimated)



Load bearing characteristic curve (estimated)



Dimension and installation drawing



Order specifications

For example: OMR200HS

It means that the main contact rated current is 200A, the rated voltage is DC750V, and the coil voltage is12V for common use, including normally open DC contactor with microswitch.

OMR250H Omni-Sealed High-Voltage DC Contactor

Product application

The product is mainly applied for the control of DC power supply systems including electric buses, charging piles, EVs, automotive air conditioners, and power supplies of communication, etc.

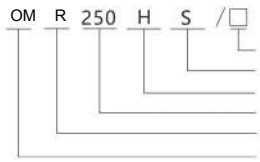
Technical specifications (normal condition) (non-polarity of the main contact circuit)

Electrical					
Contact type	Normally open contact		Max. breaking current (A)		2000A,(320VCD)1time
Contact rated load (DC)	12V~1000V,250A		Withstand voltage of medium	Between contact and coil	2200VAC,50Hz,1min,
Contact voltage drop (mV)	≤100			Between open contacts	No breakdown No flashover
Pull-in voltage (DC)	≤75%Us		Electrical life of load conversion	1000V,100A	≥1000
Release voltage (DC)	≤7.0V			900V,150A	≥1000
Response time (ms)	≤30			750V,250A	≥1000
Release time (ms)	≤20			450V,250A	≥10000
Max. instantaneous current	800A,≤1s		Mechanical life(ten thousands times)		≥30
Coil voltage (DC)	12V、24V		Temperature rise of leading-outterminal		≤65
Coil direct current and power	Starting current	≤2.5A	Coil temperature rise(K)		≤85
	Stand-by power	≤4.0W	Contact material		Silver alloy
Action frequency	≤1Hz		Coil working system		Long-term
Insulation resistance (MΩ)	≥100				

Mechanical/Environmental			
Outgoing moment of contact M5(N.m)	as recommended	Installation type	Arbitrary
Coil leading-out type	High temperature resistant insulated multiple copper core wire	Vibration	2.5g, (5~50) Hz Sinusoidal
Operating environment temperature	(-40 ~ +85) ℃	Impact	50g, 11ms (/half sinusoid)
Protection grade	IP67		

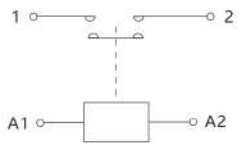
Coil specification conversion(20℃)	
Voltage specification(V)	Coil resistance (1±10%) Ω
12	3.0
24	

Model



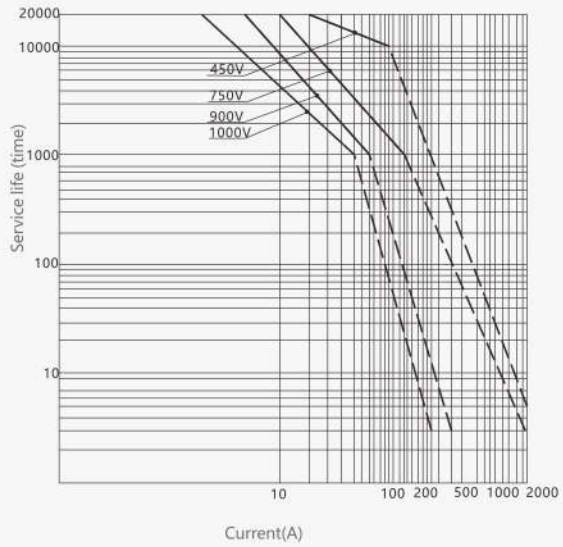
Coil rated voltage (VDC)
Microswitch, optional
Energy conservation PCB
Rated current of main contact (A)
Product model
Enterprise symbol

Electric schematic diagram

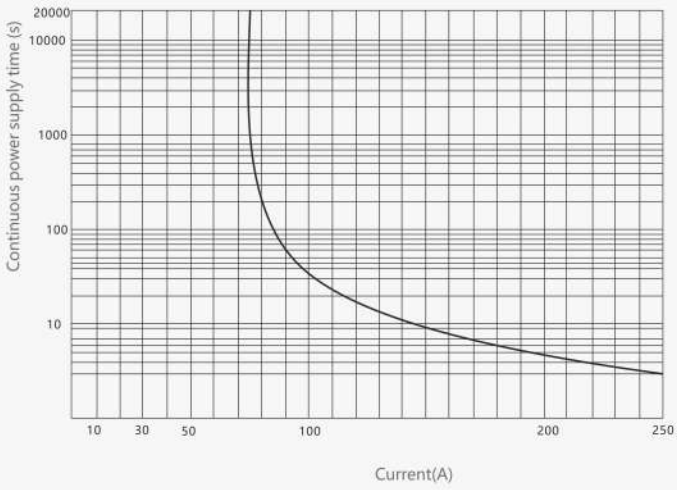


OMR250H Omni-Sealed High-Voltage DC Contactor

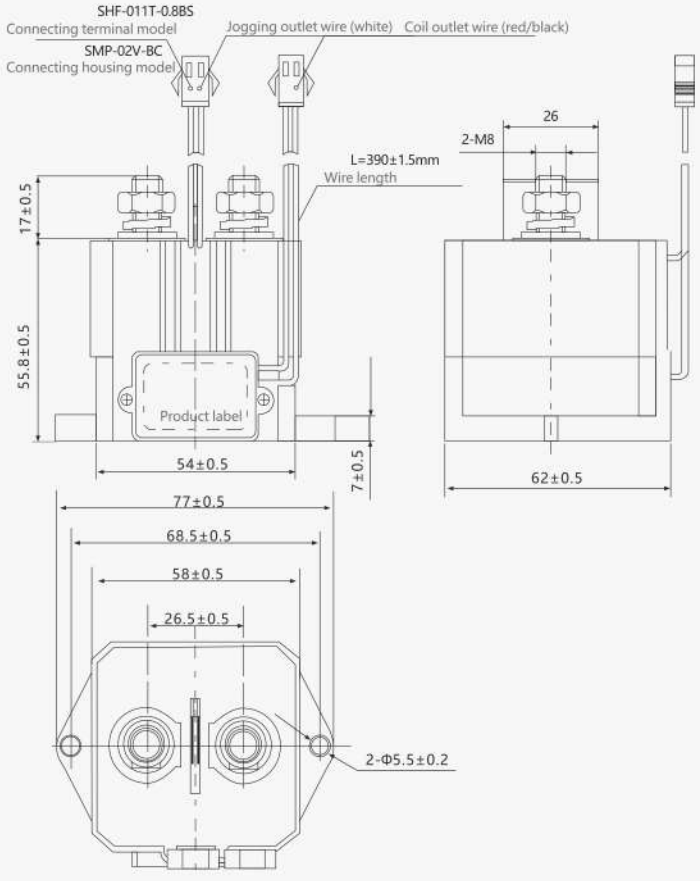
Load switching characteristic curve (estimated)



Load bearing characteristic curve (estimated)



Dimension and installation drawing



Order specifications

For example:OMR250HS

It means that the main contact rated current is 250A, the rated voltage is DC750V, and the coil voltage is12V for common use, including normally open DC contactor with microswitch.

OMR300H Omni-Sealed High-Voltage DC Contactor

Product application

The product is mainly applied for the control of DC power supply systems including electric buses, charging piles, EVs, automotive air conditioners, and power supplies of communication, etc.

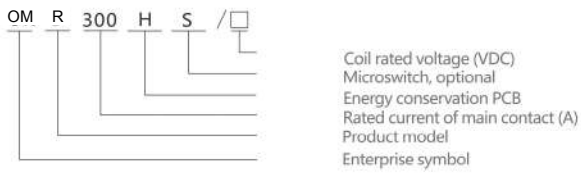
Technical specifications (normal condition) (non-polarity of the main contact circuit)

Electrical					
Contact type	Normally open contact		Max. breaking current (A)		2000A,(320VCD)1time
Contact rated load (DC)	12V~1000V,300A		Withstand voltage of medium	Between contact and coil	2200VAC,50Hz,1min,
Contact voltage drop (mV)	≤100			Between open contacts	No breakdown No flashover
Pull-in voltage (DC)	≤75%Us		Electrical life of load conversion	1000V,120A	≥1000
Release voltage (DC)	≤7.0V			900V,200A	≥1000
Response time (ms)	≤30			750V,300A	≥1000
Release time (ms)	≤20			450V,300A	≥10000
Max. instantaneous current	800A,≤1s		Mechanical life(ten thousands times)		≥30
Coil voltage (DC)	12V、24V		Temperature rise of leading-outterminal		≤65
Coil direct current and power	Starting current	≤2.5A	Coil temperature rise(K)		≤85
	Stand-by power	≤4.0W	Contact material		Silver alloy
Action frequency	≤1Hz		Coil working system		Long-term
Insulation resistance (MΩ)	≥100				

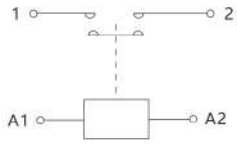
Mechanical/Environmental			
Outgoing moment of contact M5(N.m)	as recommended	Installation type	Arbitrary
Coil leading-out type	High temperature resistant insulated multiple copper core wire	Vibration	2.5g, (5~50) Hz Sinusoidal
Operating environment temperature	(-40~+85) ℃	Impact	50g, 11ms (half sinusoid)
Protection grade	IP67		

Coil specification conversion(20℃)		
Voltage specification(V)	Coil resistance (1±10%) Ω	
12	3.0	
24		

Model

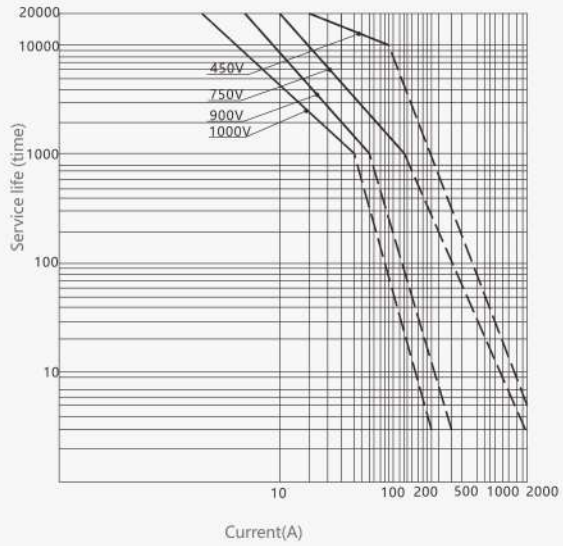


Electric schematic diagram

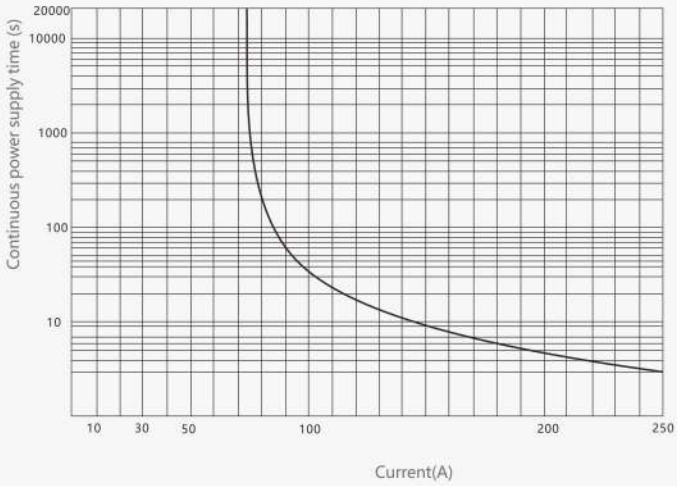


OMR300H Omni-Sealed High-Voltage DC Contactor

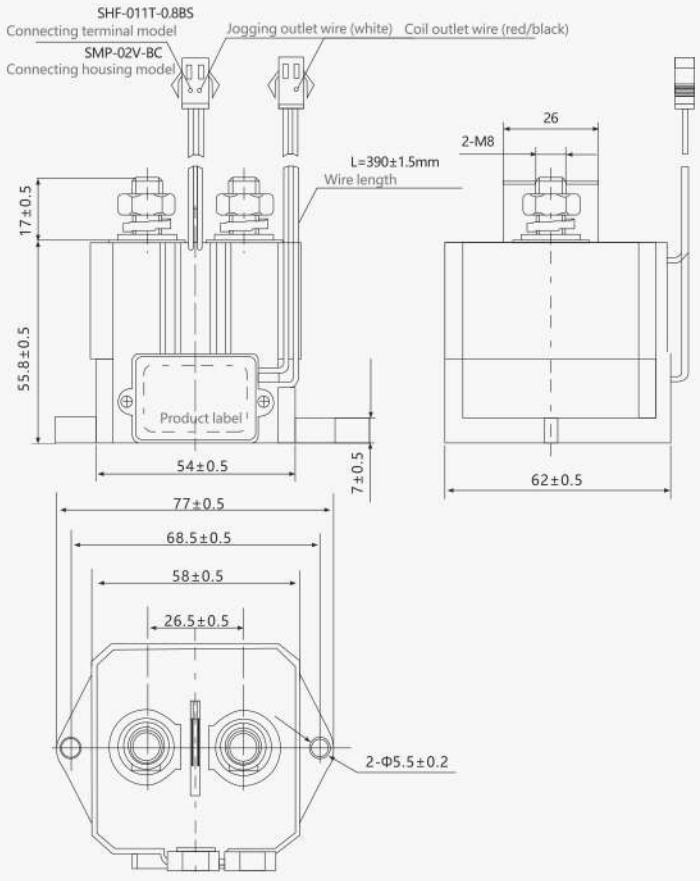
Load switching characteristic curve (estimated)



Load bearing characteristic curve (estimated)



Dimension and installation drawing

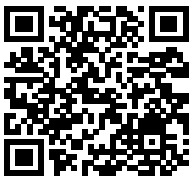


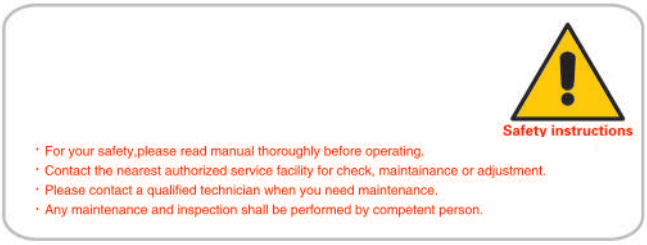
Order specifications

For example:OMR300HS

It means that the main contact rated current is 300A, the rated voltage is DC750V, and the coil voltage is12V for common use, including normally open DC contactor with microswitch.

OMICRON




Safety instructions
· For your safety,please read manual thoroughly before operating.
· Contact the nearest authorized service facility for check, maintainance or adjustment.
· Please contact a qualified technician when you need maintenance.
· Any maintenance and inspection shall be performed by competent person.