

OMICRON

OM5C

Series AC Contactor





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 technicians 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".



OMICRON

CERTIFICATE



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Guide(OM5C-9-100)



OM5C3P040	OM5C3P050	OM5C3P065	OM5C3P075	OM5C3P085	OM5C3P100
OM5C3P040	OM5C3P050	OM5C3P065	OM5C3P075	OM5C3P085	OM5C3P100
50A	70A	80A	100A	110A	135A
11kW 40A	15kW 55A	18.5kW 65A	22kW 75A	25kW 85A	30kW 105A
18.5kW 40A	22kW 50A	30kW 65A	37kW 75A	45kW 85A	55kW 100A
22kW 32A	30kW 43A	33kW 60A	37kW 64A	45kW 75A	55kW 85A
22kW 23A	30kW 28A	33kW 35A	37kW 42A	45kW 45A	55kW 65A
45A	70A	80A	90A	100A	100A
3HP	3HP	5HP	5HP	7.5HP	7.5HP
5HP	7.5HP	10HP	15HP	15HP	15HP
10HP	10HP	15HP	20HP	25HP	30HP
10HP	15HP	20HP	25HP	30HP	30HP
25HP	30HP	40HP	50HP	50HP	60HP
25HP	30HP	40HP	50HP	50HP	60HP
1	2	2	2	3	3



Top mounting of 2-pole



Top mounting of 4-pole



Side mounting of 2-pole

Thermal overload relays

OMH085



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

OMH100



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	80-100



Independent mounting unit

OMK085

OMH085/3

OMK085/L

OMK100

OMH 100/3

OMK100/L

Guide(OM5C-130-265)



Model		OM5C3P130	OM5C3P150	OM5C3P185	
AC coil		OM5C3P130	OM5C3P150	OM5C3P185	
IEC-60947 CE	AC-1	AC-1Load	150A	200A	210A
	AC-3 AC-3Load	200~240V	37kW 130A	45kW 150A	55kW 185A
		380~440V	60kW 130A	75kW 150A	90kW 185A
		500~550V	60kW 90A	70kW 100A	110kW 185A
	690V	55kW 60A	55kW 60A	110kW 120A	
Continuous current			150A	200A	210A
UL508 UL c UL	Single phase Motor	115V	10HP	15HP	15HP
		230V	20HP	25HP	30HP
	Three phases Motor	200V	40HP	40HP	60HP
		230V	40HP	50HP	60HP
		460V	75HP	100HP	125HP
	575V	75HP	100HP	125HP	
NEMA size		3	3	4	

Aux.
Contacts



AUC-100 1NO+1NC,
Side mounting

Thermal overload relays

Bimetal UK type

OMH150



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

OMH220



Rated current(A)
34-50
39-37
43-65
54-80
65-100
85-130
120-185

Class 10A	Phase-failure protection type	OMK150	OMK220
	Standard type	OMH150/3	OMH220/3
Class 20A	Delay breaking type	OMK150/L	OMK220/L

Guide(OM5C-130-265)



Model		OM5C3P225		OM5C3P265		
AC coil		OM5C3P225		OM5C3P265		
IEC-60947 CE	AC-1	AC-1Load	250A		300A	
		200~240V	75kW	225A	80kW	265A
	AC-3	380~440V	132kW	225A	147kW	265A
	AC-3Load	500~550V	132kW	200A	147kW	225A
		690V	140kW	150A	60kW	185A
UL508 UL cUL	Continuous current		250A		300A	
	Single phase Motor	115V	15HP		20HP	
		230V	40HP		40HP	
		200V	60HP		70HP	
	Three phases Motor	230V	75HP		85HP	
		460V	135HP		160HP	
575V		135HP		160HP		
NEMA size		4		4		



AUC-100 1NO+1NC,
Side mounting

Thermal overload relays



OMH630

Rated current(A)
65-100
85-125
100-160
120-185
160-240
160-265

OMK630

OMH630/3

OMK630/L

OM5C Contactor(9A-32A)



OM5C3P032

Characteristics

- One frame with five rated current classes(9,12,18,25,32A)
- 3 pairs of main contacts
- Design of anti-electric shock cover
- Installation of guide rail or screw
- Small size: 45mm width
- 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	AC-3(IEC60947)				AC-1 lth	Aux. Contacts
		220~240V	380~440V	500~550V	690V		
OM5C3P009	9A	2.5KW 11A	4KW 9A	4KW 7A	4KW 6A	25A	1NO+1NC Select
OM5C3P012	12A	3.5KW 13A	5.5KW 12A	7.5KW 12A	7.5KW 9A	25A	1NO+1NC Select
OM5C3P018	18A	4.5KW 18A	7.5KW 18A	7.5KW 13A	7.5KW 9A	32A	1NO+1NC Select
OM5C3P025	25A	5.5KW 25A	11KW 25A	15KW 25A	15KW 25A	40A	1NO+1NC Select
OM5C3P032	32A	7.5KW 32A	15KW 32A	18.5KW 28A	18.5KW 20A	45A	1NO+1NC Select

Coil voltage AC 50/60Hz

50/60Hz: 24V, 36V, 42V, 48V, 72V, 110V, 120V, 220V, 240V, 380V, 415V, 440V, 480V

OM5C Contactor(9A-32A)

Optional accessory



OMH040
OMH040 Thermal (bimetal) type



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



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



SD
AS Surge suppressing unit

Installation and connection

Installation	35mm	Fixed 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
	Auxiliary contact/coil	Screw(M3.5) crimping terminal

OM5C Contactor(40A)



OM5C3P040

Characteristics

- One frame with one rated current classes
- 3 pairs of main contacts
- Design of anti-electric shock cover
- Installation of guide rail or screw
- Small size: 68mm width(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	AC-3(IEC60947)				AC-1 lth	Aux. Contacts
		220~240V	380~440V	500~550V	690V		
OM5C3P040	40A	11KW 40A	18.5KW 40A	22KW 32A	22KW 23A	50A	1NO+1NC
							Select

Coil voltage AC 50/60Hz

50/60Hz: 24V, 36V, 42V, 48V, 72V, 110V, 120V, 220V, 240V, 380V, 415V, 440V, 480V

OM5C Contactor(40A)

Optional accessory



OMK040
OMH040 Thermal (bimetal) type



AUC-1

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



AUC-2

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



AUC-4

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



ML-9 Mechanical interlock unit



SD

SD Surge suppressing unit

Installation and connection

Installation	35mm	Fixed by 35mm guide rail or screw (M4)
Connection	Main contact	Screw(M5) crimping terminal Wire dia:1.25~5.5mm ² /φ 1.6~2.6
	Auxiliary contact/coil	Screw(M3.5) crimping terminal

OM5C Contactor(50-100A)



OM5C3P100

Characteristics

- One frame with five 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	AC-3(IEC60947)				AC-1 lth	Aux. Contacts
		220~240V	380~440V	500~550V	690V		
OM5C3P050	50A	15KW 55A	22KW 50A	30KW 43A	30KW 28A	70A	1NO+1NC Select
OM5C3P065	65A	18.5KW 65A	30KW 65A	33KW 60A	33KW 35A	80A	1NO+1NC Select
OM5C3P075	75A	22KW 75A	37KW 75A	37KW 64A	37KW 42A	100A	1NO+1NC Select
OM5C3P085	85A	25KW 85A	45KW 85A	45KW 75A	45KW 45A	110A	1NO+1NC Select
OM5C3P100	100A	30kW 105A	55kW 100A	55kW 85A	55kW 65A	135A	1NO+1NC Select

Coil voltage AC 50/60Hz

50/60Hz: 24V, 36V, 42V, 48V, 72V, 110V, 120V, 220V, 240V, 380V, 415V, 440V, 480V

OM5C Contactor(50-100A)

Optional accessory



OMH100 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**

Installation and connection

Installation	35mm		Fixed by 35mm guide rail or screw (M4)
Connection	Main contact	50A Frame	Screw(M6) crimping terminal Wire dia:2~22mm ²
		65/75/85/100A Frame	Screw crimping terminal Wire dia:2~38mm ²
	Auxiliary contact/coil		Screw(M3.5) crimping terminal

OM5C Contactor(130-265A)



OM5C3P150



OM5C3P185

- 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	AC-3(IEC60947)				AC-1 lth	Aux. Contacts
		220~240V	380~440V	500~550V	690V		
OM5C3P130	130A	37kW 130A	60kW 130A	60kW 90A	55kW 60A	150A	2NO+2NC
OM5C3P150	150A	45kW 150A	75kW 150A	70kW 100A	55kW 60A	200A	2NO+2NC
OM5C3P185	185A	55kW 185A	90kW 185A	110kW 185A	110kW 120A	210A	2NO+2NC
OM5C3P225	225A	75kW 225A	132kW 225A	132kW 200A	140kW 150A	250A	2NO+2NC
OM5C3P265	265A	80kW 265A	147kW 265A	147kW 265A	160kW 185A	300A	2NO+2NC

OM5C Contactor(130-265A)



OM5C3P265

Coil voltage, AC

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

Installation and connection

Installation	130/150A Frame		Fixed(M4)screw
	185A Frame		Fixed(M5)screw
	225/265A Frame		Fixed(M6)screw
Connection	Main contact	130/150A Frame	Fixed(M8) terminal
		Wire dia:2-60mm ²	
		185A Frame	Fixed(M8) terminal
		Wire dia:2-100mm ²	
	225/265A Frame	Fixed(M12) terminal	
Wire dia:2-200mm ²			
Auxiliary contact/coil		Screw(M4) crimping terminal	

OM5CContactor(130-265A)

Optional accessory



OMH150 Thermal(bimetal) type



OMH265 Thermal(bimetal) type



Mounting Dimensions & Wiring Diagram

Three poles contactor

Model	External dimensions (mm)	Install size
OM5C3P130 OM5C3P150		
OM5C3P185		
OM5C3P225 OM5C3P265		

OMICRON



Safety instructions

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