MIXVILL
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omu system

Security and reliability

Sophisticated design

MCB accessories

10kA MCB
1A - 63A 1 pole B/C
1A - 125A 3 pole B/C
63-100A-ig 4 pole

LED SIGNAL LIGHT

BELL

6kA MCB B/C
1A - 63A
1-2-3-4 pole

ISOLATION SWITCH
63A 1 pole,
63, 80A, 100A
3 pole

RCCB
A and AC type
25A, 40A 2 pole
25A, 40A, 63A, 100A
4 pole

BELL TRANSFORMER

Other system components coming soon!

MCB

OMB06
OMBN6

6kA

Miniature Circuit Breaker

The circuit-breaker is an advanced, reliable and highly interruptible device.
It is used primarily for 230/400V at 50/60Hz.
Residential buildings, office buildings, etc. It is used for protection against short circuits and overloads in lighting, distribution cabinets and other equipment.

Sophisticated design:
Two ways to connect cables and busbars.
Heatsinks for better heat dissipation and ventilation.
Transparent protective cover with a label underneath to indicate the circuit.

Security and reliability:
Flame retardant cover.
Automatic shut-off with less spark for longer device life.
Stain-resistance, to guarantee a safe and reliable connection.

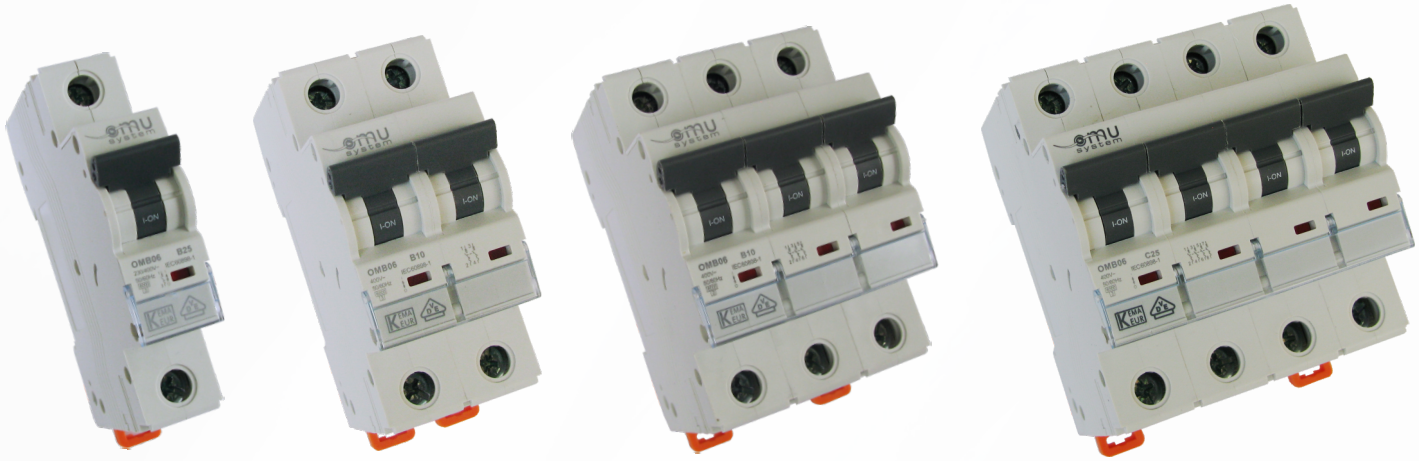
Environmental Care:
The products meet the strict requirements of ISO14001.
The components do not contain harmful elements such as heavy metals and halogens.
Low power consumption and significant energy savings.
Improve production and protect the ecological environment. Save equipment maintenance.

Intelligent technology:
Various electrical accessories are available to suit your needs. (lights, doorbells, bell transformer, etc.)
The latest micro-electric transmission technology to achieve controllable operations.
Digitalization and informatization management of products via the Internet.
Remote monitoring and control of circuit breakers.
Meets international certifications such as VDE / KEMA / CE / SEMKO etc.

Technical data

Standard	EN / IEC60898-1
Breaking capacity	6kA, 10kA
Protection	Against overload and short circuit
Rated current In	6kA 1,2,3,4,6,10,13,16,20,25,32,40,50,63A 10kA 6,10,16,20,25,40,50,63,80,100,125A
Rated voltage	230/400V AC Rated insulation voltage Ui: 500V Rated impulse withstand voltage Uimp: 4000V Energy limiting: class 3
Ambient temperature (C°)	-5~+40
Characteristic	Thermal operating limit: (1.13-1.45)xIn Magnetic operating: B: (3-5)xIn C: (5-10)xIn

Number of poles	6kA 1P, 1P+N, 2P, 3P, 4P 10kA 1P, 3P, 3P(H), 4P, 4P(H)
Type of trip	Thermal / magnetic release
Type of terminal	U type and Pin type
Terminal capacity	**OMB06** 16mm² flexible or 25mm² rigid **OMB10** 16mm² flexible or 25mm² rigid **OMB10H** 25mm² flexible or 35mm² rigid
Terminal torque	**OMB06, OMB10** 2Nm **OMB10H** 3,5Nm
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	17.8mm per pole



MCB

OMB06
OMBN6

6kA

Miniature Circuit Breaker

OMB061 1P

Rated current (A)	B curve	C curve	Packing unit
1	OMB06101B	OMB06101C	12
2	OMB06102B	OMB06102C	12
4	OMB06104B	OMB06104C	12
6	OMB06106B	OMB06106C	12
10	OMB06110B	OMB06110C	12
13	OMB06113B	OMB06113C	12
16	OMB06116B	OMB06116C	12
20	OMB06120B	OMB06120C	12
25	OMB06125B	OMB06125C	12
32	OMB06132B	OMB06132C	12
40	OMB06140B	OMB06140C	12
50	OMB06150B	OMB06150C	12
63	OMB06163B	OMB06163C	12

OMB062 2P

Rated current (A)	B curve	C curve	Packing unit
1	OMB06201B	OMB06201C	6
2	OMB06202B	OMB06202C	6
4	OMB06204B	OMB06204C	6
6	OMB06206B	OMB06206C	6
10	OMB06210B	OMB06210C	6
13	OMB06213B	OMB06213C	6
16	OMB06216B	OMB06216C	6
20	OMB06220B	OMB06220C	6
25	OMB06225B	OMB06225C	6
32	OMB06232B	OMB06232C	6
40	OMB06240B	OMB06240C	6
50	OMB06250B	OMB06250C	6
63	OMB06263B	OMB06263C	6

OMB063 3P

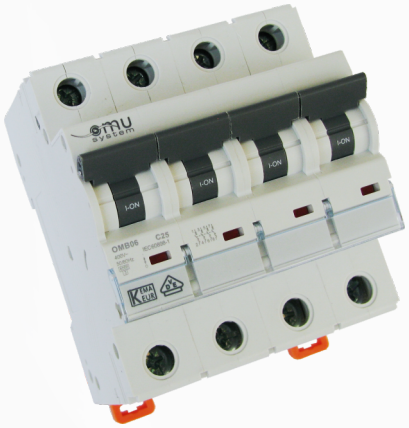
Rated current (A)	B curve	C curve	Packing unit
1	OMB06301C	OMB06301C	4
2	OMB06302C	OMB06302C	4
4	OMB06304C	OMB06304C	4
6	OMB06306B	OMB06306C	4
10	OMB06310B	OMB06310C	4
13	OMB06313B	OMB06313C	4
16	OMB06316B	OMB06316C	4
20	OMB06320B	OMB06320C	4
25	OMB06325B	OMB06325C	4
32	OMB06332B	OMB06332C	4
40	OMB06340B	OMB06340C	4
50	OMB06350B	OMB06350C	4
63	OMB06363B	OMB06363C	4

MCB

OMB06
OMBN6

6kA

Miniature Circuit Breaker



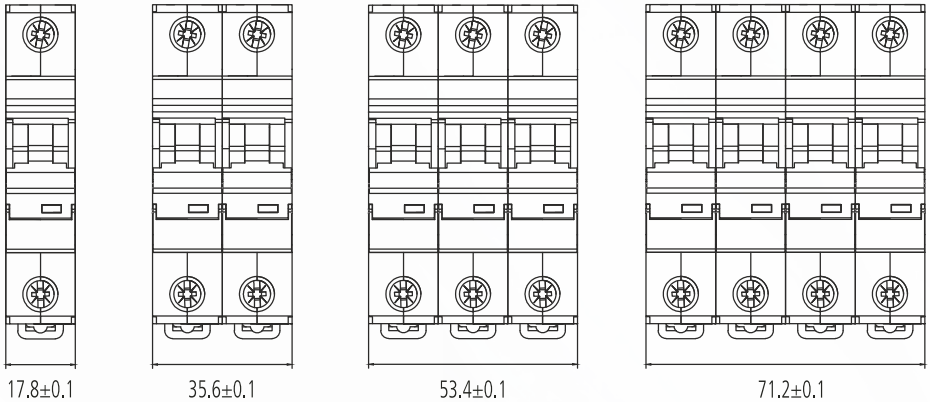
OMB064 4P

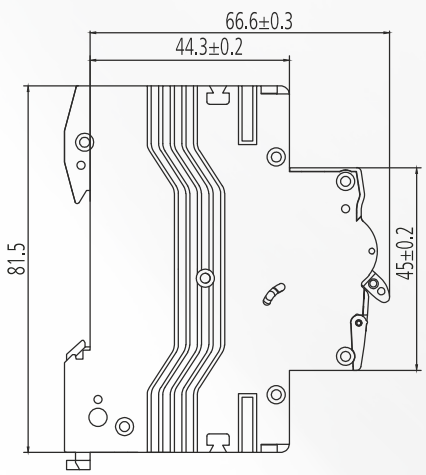
Rated current (A)	B curve	C curve	Packing unit
1	OMB06401B	OMB06401C	3
2	OMB06402B	OMB06402C	3
4	OMB06404B	OMB06404C	3
6	OMB06406B	OMB06406C	3
10	OMB06410B	OMB06410C	3
13	OMB06413B	OMB06413C	3
16	OMB06416B	OMB06416C	3
20	OMB06420B	OMB06420C	3
25	OMB06425B	OMB06425C	3
32	OMB06432B	OMB06432C	3
40	OMB06440B	OMB06440C	3
50	OMB06450B	OMB06450C	3
63	OMB06463B	OMB06463C	3

OMBN6

Rated current (A)	B curve	C curve	Packing unit
1	OMBN61N1B	OMBN61N1C	12
2	OMBN61N2B	OMBN61N2C	12
4	OMBN61N4B	OMBN61N4C	12
6	OMBN61N6B	OMBN61N6C	12
10	OMBN61N10B	OMBN61N10C	12
13	OMBN61N13B	OMBN61N13C	12
16	OMBN61N16B	OMBN61N16C	12
20	OMBN61N20B	OMBN61N20C	12
25	OMBN61N25B	OMBN61N25C	12
32	OMBN61N32B	OMBN61N32C	12
40	OMBN61N40B	OMBN61N40C	12
50	OMBN61N50B	OMBN61N50C	12
63	OMBN61N63B	OMBN61N63C	12

Overall and mounting dimensions





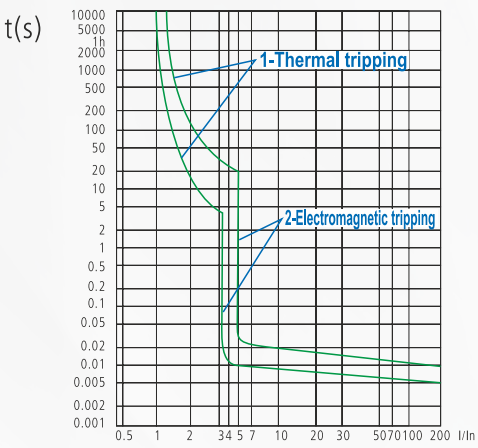
MCB

OMB06
OMBN6

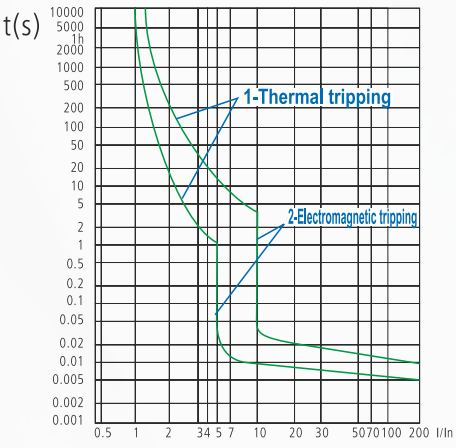
6kA

Miniature Circuit Breaker

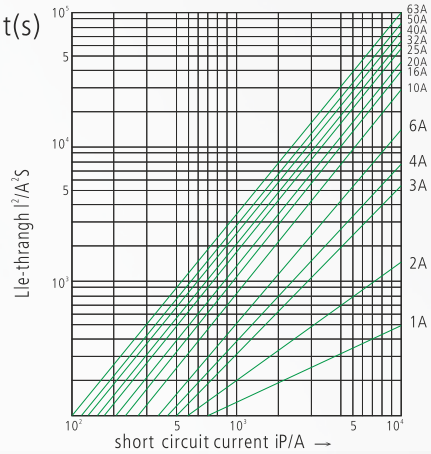
Curvers



B type



C type



I^2t

Overcurrent protecting characteristics

No	Rated current of release(A)	Initial state	Test current	Specified time	Result to be obtained	Remarks
1	1~63	cold state	1.13In	t≤1h	Non-trip	
2	1~63	upon the previous test	1.45In	t<1h	trip	Setting current up to specified value steadily in 5S
3	In≤32	cold state	2.55In	1s<t<60s	trip	
	In>32	cold state	2.55In	1s<t<120s	trip	
4	1~63	cold state	3In	t≤0.1s	Non-trip	B type
	1~63	cold state	5In	t<1.1s	trip	B type
	1~63	cold state	5In	t≤0.1s	Non-trip	C type
	1~63	cold state	10In	t<1.1s	trip	C type

Endurance (operations)

Category	Operations	Operation frequency	Rated current
Electrical endurance	4000	240/h	0.5~32
		120/h	40~63
Mechanical endurance	10000	240/h	0.5~63

Circuit Breaker Accessories

Technical data

Standard	EN / IEC60947-5-1	**Storage temperature (C°)**	-40~+75
Rated insulation voltage	Ui 500V	**Eletric endurance**	4000
Rated voltage	AC 230V	**mechanical endurance**	10000
Rated frequency (Hz)	50/60Hz	**Dielectic strength**	2000V/1min
Utilization catagory	AC14, AC15	**Protection degree**	IP20
Ambient temperature (C°)	-5~+40 Max 95% humidity		

Application

Applicable to OMB06, OMB10 model, used to control remote signaling device

OMBAUAUX Auxiliary Contact

Dielectric strength: 2kV/1min
Electro-mechanical endurance: ≥5000
Rated voltage: 230V
Rated current: 6A

OMBAUSHU Shunt Trip

Rated insulating voltage (Ui): 500V
Rated voltage (Un): 230V
Contact capacity: AC: 3A/400V, AC:6A/230V, AC: 9A/125V
Dielectric strength: 2kV/1min
Electro-mechanical endurance: ≥4000
Mounting on the left side of MCB/RCBO, used to trip
the combined MCB/RCBO by remote controlling device
Terminal Connection Height: 19mm

OMBAUNTF Over-voltage / Under-voltage Tripper

Rated insulating voltage (Ui): 500V
Over-voltage tripping range: 280V±5%
Under-voltage tripping range: 170V±5%
Dielectric strength: 2kV/1min
Electro-mechanical endurance: ≥4000
Mounting on the left side of circuit breaker, actuate the combined device to
trip in case of under-voltage or over-voltage, effectively prevent the device from
closign operation under abnormal power voltage condition.

OMBAUALM Alarm Switch

Rated insulating voltage (Ui): 500V
Rated voltage (Un): 230V
Dielectric strength: 2kV/1min
Electro-mechanical endurance: ≥4000
Is used to connect ON/OFF auxiliary contact, work as circuit breaker ON/OFF
indicator in case of faulty (tripping)

MCB

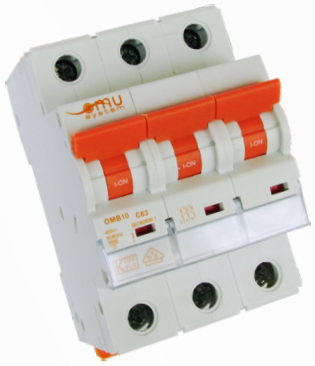
OMB10
OMB10H

10kA

Miniature Circuit Breaker

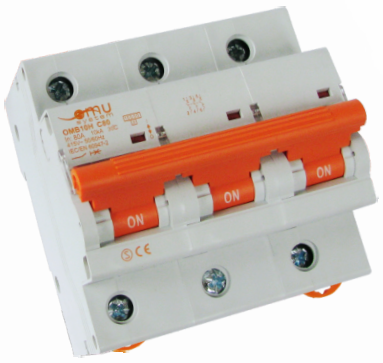
OMB101 1P

Rated current (A)	B curve	C curve	Packing unit
1	OMB10101B	OMB10101C	12
2	OMB10102B	OMB10102C	12
3	OMB10103B	OMB10103C	12
4	OMB10104B	OMB10104C	12
6	OMB10106B	OMB10106C	12
10	OMB10110B	OMB10110C	12
13	OMB10113B	OMB10113C	12
16	OMB10116B	OMB10116C	12
20	OMB10120B	OMB10120C	12
25	OMB10125B	OMB10125C	12
32	OMB10132B	OMB10132C	12
40	OMB10140B	OMB10140C	12
50	OMB10150B	OMB10150C	12
63	OMB10160B	OMB10160C	12



OMB103 3P

Rated current (A)	B curve	C curve	Packing unit
1	OMB10301B	OMB10301C	4
2	OMB10302B	OMB10302C	4
3	OMB10303B	OMB10303C	4
4	OMB10304B	OMB10304C	4
6	OMB10306B	OMB10306C	4
10	OMB10310B	OMB10310C	4
13	OMB10313B	OMB10313C	4
16	OMB10316B	OMB10316C	4
20	OMB10320B	OMB10320C	4
25	OMB10325B	OMB10325C	4
32	OMB10332B	OMB10332C	4
40	OMB10340B	OMB10340C	4
50	OMB10350B	OMB10350C	4
63	OMB10360B	OMB10360C	4



OMB10H3 3P

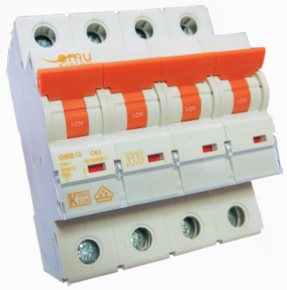
Rated current (A)	B curve	C curve
80	OMB10H380C	OMB10H380C
100	OMB10H3100C	OMB10H3100C
125	OMB10H3125C	OMB10H3125C

MCB

OMB10
OMB10H

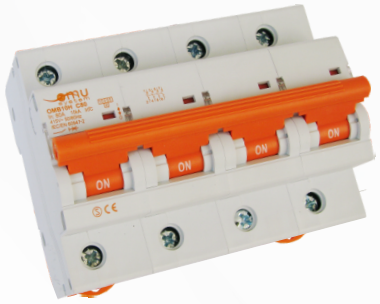
10kA

Miniature Circuit Breaker



OMB104 4P

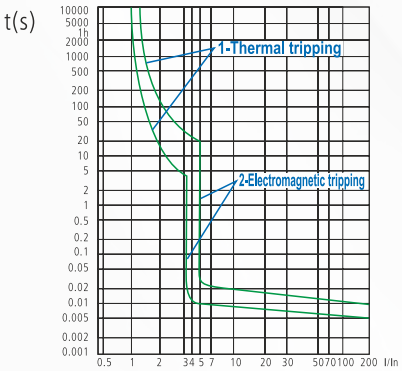
Rated current (A)	B curve	C curve	Packing unit
63	OMB10463C	OMB10463C	3



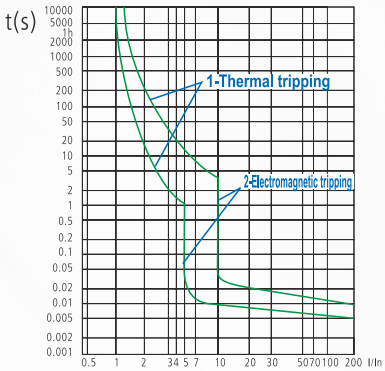
OMB10H4 4P

Rated current (A)	B curve	C curve	Packing unit
80	OMB10H4080C	OMB10H4080C	3
100	OMB10H4100C	OMB10H4100C	3

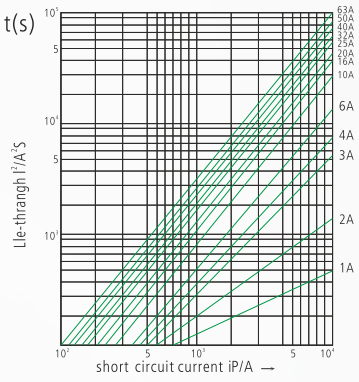
Curvers



B type



C type



I^2t

Overcurrent protecting characteristics

No	Rated current of release(A)	Initial state	Test current	Specified time	Result to be obtained	Remarks
1	1~63	cold state	1.13In	t≤1h	Non-trip	
2	1~63	upon the previous test	1.45In	t<1h	trip	Setting current up to specified value steadily in 5S
3	In≤32	cold state	2.55In	1s<t<60s	trip	
	In>32	cold state	2.55In	1s<t<120s	trip	
4	1~63	cold state	5In	t≤0.1s	Non-trip	C type
	1~63	cold state	10In	t<1.1s	trip	C type

Endurance (operations)

Category	Operations	Operation frequency	Rated current
Electrical endurance	8000	240/h	0.5~32
		120/h	40~63
Mechanical endurance	20000	240/h	0.5~63

RCCB OMR10 10kA

Residual Current Circuit Breaker

Purpose of RCCB:
The purpose of the residual current circuit breaker is to protect the individual against electric shock and fire due to faulty wiring or earth fault.

Sophisticated design:
Thermal trip and electronic trip.
Two ways to connect cables and busbars.
Heatsinks for better heat dissipation and ventilation.
Transparent protective cover with a label underneath to indicate the circuit.

Security and reliability:
Flame retardant cover.
Automatic shut-off with less spark for longer device life.
Stain-resistance, to guarantee a safe and reliable connection.
IP20 protection to prevent dust and conductive pollution.

Environmental Care:
The products meet the strict requirements of ISO14001.
The components do not contain harmful elements such as heavy metals and halogens.
Low power consumption and significant energy savings.
Improve production and protect the ecological environment. Save equipment maintenance.

Intelligent technology:
Various electrical accessories are available to suit your needs. (lights, doorbells, bell transformer, etc.)
The latest micro-electric transmission technology to achieve controllable operations.
Digitalization and informatization management of products via the Internet.
Remote monitoring and control of circuit breakers.
Meets international certifications such as VDE / KEMA

Technical data

Standard	EN / IEC60898-1
Breaking capacity	10kA
Protection	Ground fault
Rated current In	25,40,63,100
Number of poles	2(1+N), 4(3+N) pole
Rated sensitivity currents, I△n	10, 30, 100, 300mA
Rated residual non-operating current	0.5x I△n
Rated impulse witstand voltage Uimp	4000V
Rated voltage 2 pole	240VAC
4 pole	415VAC

Ambient temperature (C°)	-25~+40, Max. 95% humidity
Residual current off-time at I△n	≤0.1s
Rated residual current making & breaking capacity, I△m	500A for In=25,40A 630A for In=63A 800A for In=80A
Type of trip	Electro-magnetic release
Type of terminal	U type and Pin type
Terminal capacity	Cables up to 25mm^2
Protection degree	IP20
Installation	35mm DIN rail

RCCB OMR10 10kA

Residual Current Circuit Breaker

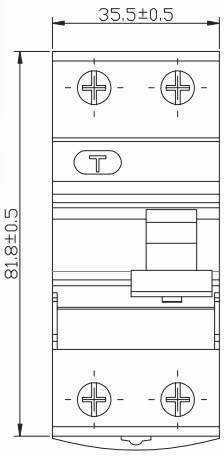
OMR1020

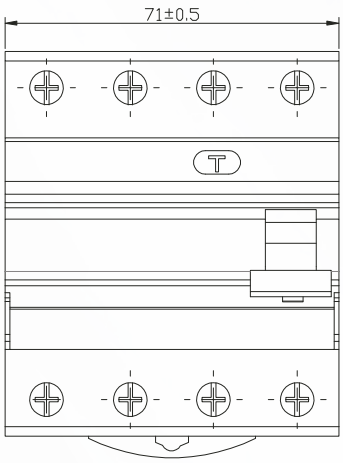
Rated current (A)	I△n	Pole	Type AC	Type A	Packing unit
25	0,01	2	OMR102025001	OMR102A25001	1
25	0,03	2	OMR102025003	OMR102A25003	1
25	0,1	2	OMR10202501	OMR102A2501	1
25	0,3	2	OMR10202503	OMR102A2503	1
40	0,03	2	OMR102040003	OMR102A40003	1
40	0,1	2	OMR10204001	OMR102A4001	1
40	0,3	2	OMR10204003	OMR102A4003	1

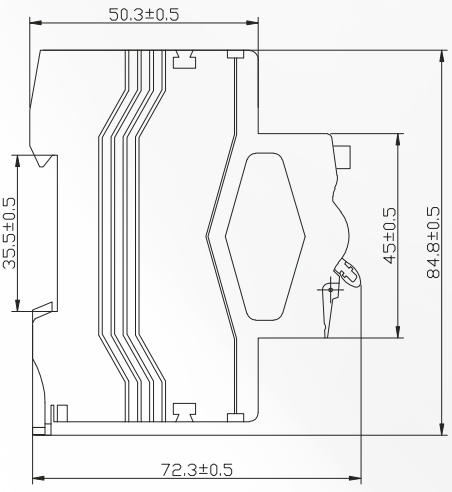
OMR1040

Rated current (A)	I△n	Pole	Type AC	Type A	Packing unit
25	0,03	4	OMR104025003	OMR104A25003	1
25	0,1	4	OMR10402501	OMR104A2501	1
25	0,3	4	OMR10402503	OMR104A2503	1
40	0,03	4	OMR104040003	OMR104A40003	1
40	0,1	4	OMR10404001	OMR104A4001	1
40	0,3	4	OMR10404003	OMR104A4003	1
				-	
63	0,03	4	OMR104063003	OMR104A63003	1
63	0,1	4	OMR10406301	OMR104A6301	1
63	0,3	4	OMR10406303	OMR104A6303	1
100	0,03	4	OMR104010003	OMR104A100003	1
100	0,1	4	OMR104010001	OMR104A10001	1
100	0,3	4	OMR104010003	OMR104A10003	1

Overall and mounting dimensions







omu system

RCCB OMR10 10kA

Residual Current Circuit Breaker

Life

In	Operating cycles		Operating frequency (operations/h)
	On-load operating cycles	Off-load operating cycles	
25	2000	2000	240
40,63,100	2000	1000	120

Breaking time of residual current

Max.breaking time					
In (A)	I△n(A)	I△n	2I△n	5I△n	5A,10A,20A,50A,100A,200A,500A
25, 40,100	0.01,0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

Wiring The suitable conductors should be used for connection, see table below for relative parameters

Rated current In (A)	Nominal cross section area of lead (mm^2)	Tightening torque (N.m)
25	4	2.5
40	10	2.5
63	16	2.5
100	25	2.5

Features

When designing residual current devices, manufacturing technology and type of routine tests, the IEC / EN 61008 standards were considered. Important features are:

Up to date design

User-friendly connection of conductors and busbars

Resistance to current surges; unwanted tripping excluded

Simple and solid fixing to a 35 mm mounting rail in compliance with EN 60715

Additional colour display of main contacts position (red:contacts closed, green:contacts open)

OIS

Isolating Switch

The isolation switch is mainly used at 50/60Hz with 230/400V voltage up to 100A rated current.
It is primarily used as a main switch for electrical appliances and electrical networks for switching various types of low and hihg power machines, electric motors or lighting.
Its mechanical life is 10,000 times, of which the electrical life is 6,000 times.

Sophisticated design:
Two ways to connect cables and busbars.
Heatsinks for better heat dissipation and ventilation.
Transparent protective cover with a label underneath to indicate the circuit.

Security and reliability:
Flame retardant cover.
Automatic shut-off with less spark for longer device life.
Stain-resistance, to guarantee a safe and reliable connection.
IP20 protection to prevent dust and conductive pollution.

Environmental Care:
The products meet the strict requirements of ISO14001.
The components do not contain harmful elements such as heavy metals and halogens.
Low power consumption and significant energy savings.
Improve production and protect the ecological environment. Save equipment maintenance.

Features

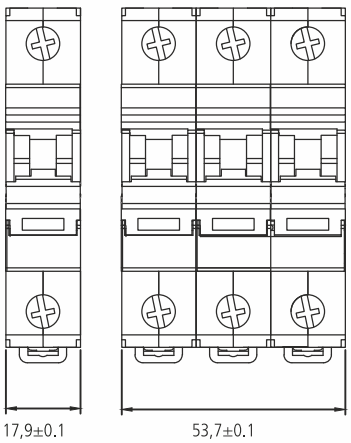
1. Current capacity is enhanced and electric drive compensation is fully applied
2. Reliable operation thanks to special designed operating mechanism
3. Safe operation is ensured

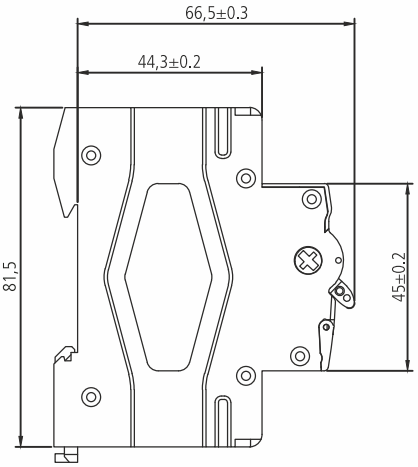
Technical data

Standard	EN / IEC60947-3
Number of poles	1P, 3P
Rated currents	63,80,100A
Rated voltage	1pole 240VAC 50/60Hz 3pole 415VAC 50/60Hz
Utilization category	AC-22A
Icw	12Ie, t=1s
Rated short-circuit making capacity Icm	20Ie
Rated making & breaking capacity	3Ie, 1.05Ue, COSφ=0.65
Rated insulation voltage Ui	690V
Rated impulse witstand voltage Uimp	6000V

Electrical endurance	1500
Mechanical endurance	10000
Type of terminal	U type and Pin type
Terminal capacity	Cables up to 50mm^2
Ambient temperature (C°)	-5~+35, Max. 95% humidity
Storage temperature (C°)	-40~+75
Altitude	**Max 2,000**
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	17.8mm por pole

Overall and mounting dimensions





Isolating Switch

OIS010

Pole	In	Model	Packing unit
1	63A	OIS01063	12

OIS030

Pole	In	Model	Packing unit
3	63A	OIS03063	4
3	80A	OIS03080	4
3	100A	OIS03100	4

Endurance (operation)

Category	Operations	Operation frequency	Rated current
Electric endurance	1500	120/h	16~125A
Mechanical endurance	10000	120/h	16~125A

Wiring

The suitable conductors should be used for connection, see table below for relative parameters

Rated current In (A)	Cross section area S (mm2)	Tightening torque (N . m)
63	16	3.5
80	35	3.5
100	35	3.5
125	50	3.5

OBE OBT

Bell Bell transformer

Electrical accessories are needed in electrical circuits or in houses and buildings.
Various electrical accessories provide protection against low voltage, overvoltage and phase loss through control and alarm.

Sophisticated design:
Two ways to connect cables and busbars.
Heatsinks for better heat dissipation and ventilation.
Transparent protective cover with a label underneath to indicate the circuit.

Security and reliability:
Flame retardant cover.
Automatic shut-off with less spark for longer device life.
Stain-resistance, to guarantee a safe and reliable connection.
IP20 protection to prevent dust and conductive pollution.

Environmental Care:
The products meet the strict requirements of ISO14001.
The components do not contain harmful elements such as heavy metals and halogens.
Low power consumption and significant energy savings.
Improve production and protect the ecological environment. Save equipment maintenance.

Technical data

OBE

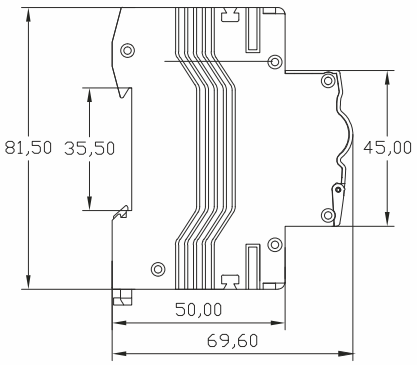
Standard	EN / IEC61558-1
Electric ratings	8V, 230V 50/60Hz
Installation class	II & III
Pollution grade	II
Working condition	Short-time working
Degree of protection	IP20
Mounting	35mm DIN rail
Operating Voltage	**OBE008** 8V, **OBE230** 230V
Capacity (VA)	**OBE008** 4,8, **OBE230** 4.0
Noise level	78dB
Packing unit	12

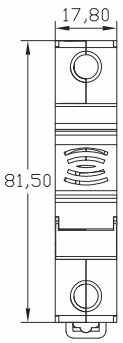
OBT

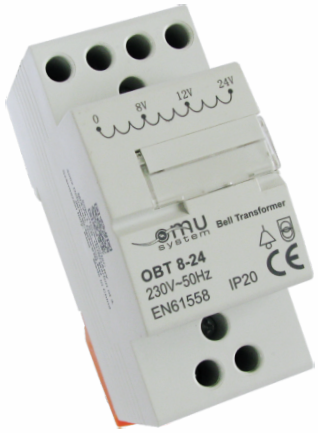
Standard	EN / IEC61558
Input voltage	230V 50/60Hz
Output voltage	4,6,8,12,16,24V
Rated power output	8VA
Comsumption	1.15W
Pollution class	I
Mounting	35mm DIN rail
Service period	Continuos operating
Connection terminals	Pillar terminal with clamp
Connection capacity	Rigid conductor 10mm2
Terminal Connection Height	H=15.5mm
Installation	On symmetrical DIN rail Panel mounting
Rated voltage	**Primary U1(V) 230(240)** **secondary U2(U) 24**
Current w/o load Io(A)	36±6
Power consumption load Po(W)	1.15
Coil Temperature rising (°C)	50

Overall and mounting dimensions

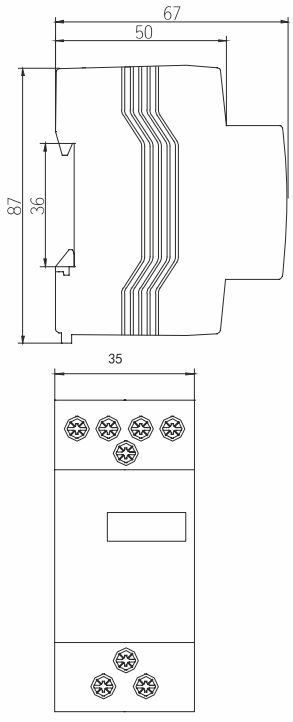
OBE008 OBE230







OBT



OSL

LED signal light

Electrical accessories are needed in electrical circuits or in houses and buildings.
Various electrical accessories provide protection against low voltage, overvoltage and phase loss through control and alarm.

Sophisticated design:
Two ways to connect cables and busbars.
Heatsinks for better heat dissipation and ventilation.
Transparent protective cover with a label underneath to indicate the circuit.

Security and reliability:
Flame retardant cover.
Automatic shut-off with less spark for longer device life.
Stain-resistance, to guarantee a safe and reliable connection.
IP20 protection to prevent dust and conductive pollution.

Environmental Care:
The products meet the strict requirements of ISO14001.
The components do not contain harmful elements such as heavy metals and halogens.
Low power consumption and significant energy savings.
Improve production and protect the ecological

Technical data

Standard	EN / IEC60947-5-1
Rated current AC12	20A
Operating voltage (V)	230V AC/DC
Electric ratings	Up to 230VAC 50/60Hz
Rated insulation Voltage Ui	500V
Illumination	LED
Life	LED ≥30000h

Ambient temparature (°C)	-5~+40, max. 95% humidity
Storage temparature (°C)	-40~+75
Connection capacity (mm^2)	1-16
Color	Green, red
Type of terminal	Pin type and U type
Protection degree	IP20
Mounting	35mm DIN rail
Packing unit	12

OSL230R

OSL230W

OSL230G