

 The product graphics in this manual are schematic diagrams, and all products are subject to actual products.
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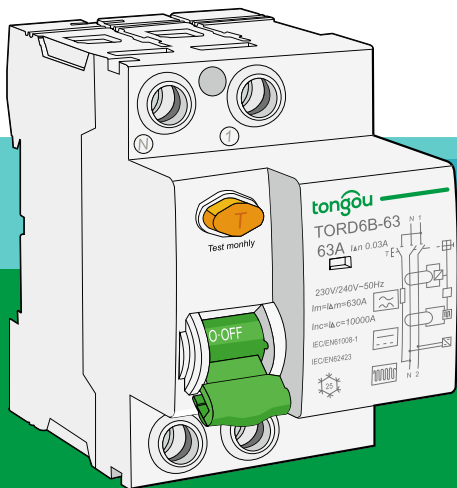
tongou | Electric Artisan
Since 1993

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PV EV New Energy

Type B RCCB, DC MCB, Modular contactor
DC Surge arrester, DC Fuse Holder

Circuit Protection

> MCB, RCCB, RCBO, Switch-disconnector

PV EV New Energy

> Type B RCCB, DC MCB, Modular contactor
> DC Surge arrester, DC Fuse Holder

Industrial Control & Power Distribution

> Contactor, MCCB,
> LV power Intelligent circuit breaker



tongou
ELECTRICAL SINCE 1985



Green & Safe

Electric artisan in the industry



Certification & Warranty

Tongou electrical manufactured products is fully tested, approved and certified by national and international third parties from BV(Bureau Veritas), TUV, Intertek, CQC, SAA, SGS Laboratory organization, Won approvals of CE, SEMKO, CB, CCC, RoHS and ISO9001, ISO14001, OHSAS18001 Quality System Certificates.

Warranty:
Tongou electrical manufactured products with 3-5 years warranty and Lifetime after-sale maintenance.



To stay true to our mission, insisting on producing superior quality products to keep electricity safety in the industry:

Over 25 years

Tongou electrical was established in 1993, focus on manufacturing electric products for over 25 years, which has been dedicated effort to protecting personal body safety, circuit safety and electrical equipment safety.

Over 4000 square

With an area of more than 4,000 square meters, tongou electrical has more than 100 employees produce the reliable products, we believe that great people and partners make Tongou will be a great company.

Automation

More automation equipment and manipulator be involved in production, to provide more efficient, more stable products.

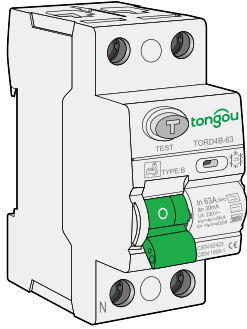
'You can tell it's a high quality product when you hold it in your hands'

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TORD4B-63 Residual Current Circuit Breaker



IEC 61008-1 EN 61008-1 IEC/EN 62423

- The TORD4B-63 B type residual current circuit breakers provide:
 - Protection of persons against electric shock by direct contact (i_n 30 mA),
 - Protection of persons against electric shock by indirect contact (i_n 100 mA),
 - Protection of installations against the risk of fire (300 mA or 500 mA).
- Protection in the event of a continuous earth fault current on networks generated by:
 - Controllers and variable speed drives,
 - Battery chargers and inverters, such as used in photovoltaic application,
 - Backed-up power supplies.
- They include protection against earth fault currents:
 - Sinusoidal AC residual currents (AC type),
 - Pulsed DC residual currents (A type),
 - Multi frequency residual current (F type).
- For applications using 3-poles drives, such as:
 - Crane,
 - Lift,
 - HVAC,
 - Pumping system.

Main

Product or component type	Residual current circuit breaker(RCCB)
Device application	Electrical vehicle charger, Solar energy system
Poles description	2P
Network type	AC, Pulsing DC, Smooth DC
Earth-leakage sensitivity	30mA, 100mA-300mA
Earth-leakage protection class	Type B

Complementary

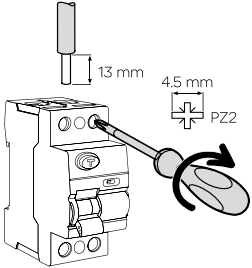
Device location in system	Group incomer
Network frequency	50/60Hz
Rated breaking and making capacity	Im 630A Idm630A
Rated conditional short-circuit current	6kA
[Ui] rated insulation voltage	250V
[Uimp] rated impulse withstand voltage	6kA
Contact position indicator	Yes
Control type	Toggle
Mounting mode	Clip-on
Mounting support	DIN rail
Colour	White
Mechanical durability	20000 cycles
Electrical durability	15000 cycles
Tightening torque	3.5N.m (top or bottom)

Environment

Standards	EN 61008-1, IEC 61008-1, IEC/EN 62423
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529 IP20 conforming to IEC 60529
Operating altitude	2000 m
Ambient air temperature for operation	-25°C to +60°C
Ambient air temperature for storage	-40°C to +85°C

Connection




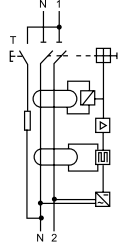
Rating	Tightening torque	Copper cables	
		Rigid	Flexible or ferrule



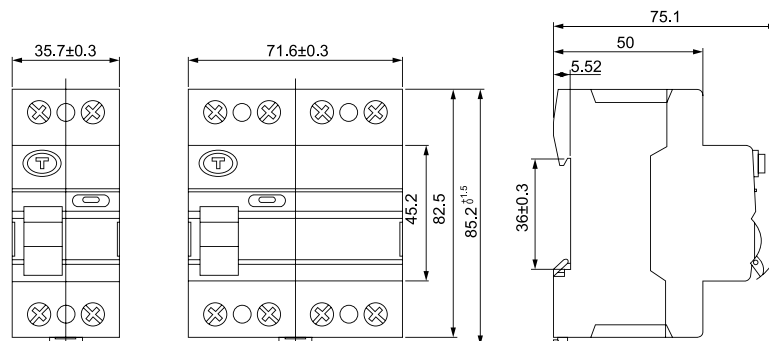
1 to 25 A	2 N.m	1 to 25 mm ²	1 to 16 mm ²
32 to 63 A	2.5 N.m	1 to 35 mm ²	1 to 25 mm ²

Catalogue numbers

TORD4B-63 RCCB

Type Product	B   					Width in 9 mm module	
2P	Sensitivity	30 mA	100 mA	300 mA	500 mA	4	
	Rating	25A	TORD4B-63/2/25/003	TORD4B-63/2/25/01	TORD4B-63/2/25/03		-
	40A	TORD4B-63/2/40/003	TORD4B-63/2/40/01	TORD4B-63/2/40/03	-		
	63A	TORD4B-63/2/63/003	TORD4B-63/2/63/01	TORD4B-63/2/63/03	-		
Voltage rating (Ue)	2P	230-240 V					
Operating frequency	50Hz						

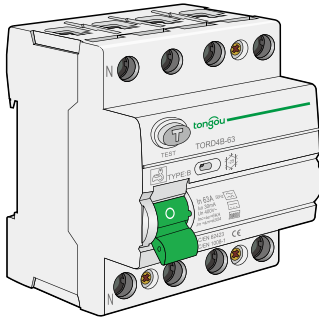
Dimensions (mm)



Protection
Earth leakage protection



TORD4B-63 Residual Current Circuit Breaker



IEC 61008-1 EN 61008-1 IEC/EN 62423

- The TORD4B-63 B type residual current circuit breakers provide:
 - Protection of persons against electric shock by direct contact (i_n 30 mA),
 - Protection of persons against electric shock by indirect contact (i_n 100 mA),
 - Protection of installations against the risk of fire (300 mA or 500 mA).
- Protection in the event of a continuous earth fault current on networks generated by:
 - Controllers and variable speed drives,
 - Battery chargers and inverters, such as used in photovoltaic application,
 - Backed-up power supplies.
- They include protection against earth fault currents:
 - Sinusoidal AC residual currents (AC type),
 - Pulsed DC residual currents (A type),
 - Multi frequency residual current (F type).
- For applications using 3-poles drives, such as:
 - Crane,
 - Lift,
 - HVAC,
 - Pumping system.

Main

Product or component type	Residual current circuit breaker(RCCB)
Device application	Electrical vehicle charger, Solar energy system
Poles description	2P
Network type	AC, Pulsing DC, Smooth DC
Earth-leakage sensitivity	30mA, 100mA-300mA
Earth-leakage protection class	Type B

Complementary

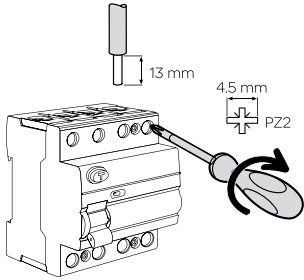
Device location in system	Group incomer
Network frequency	50/60Hz
Rated breaking and making capacity	Im 630A Idm630A
Rated conditional short-circuit current	6kA
[Ui] rated insulation voltage	400V
[Uimp] rated impulse withstand voltage	6kA
Contact position indicator	Yes
Control type	Toggle
Mounting mode	Clip-on
Mounting support	DIN rail
Colour	White
Mechanical durability	20000 cycles
Electrical durability	15000 cycles
Tightening torque	3.5N.m (top or bottom)

Environment

Standards	EN 61008-1, IEC 61008-1, IEC/EN 62423
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529 IP20 conforming to IEC 60529
Operating altitude	2000 m
Ambient air temperature for operation	-25°C to +60°C
Ambient air temperature for storage	-40°C to +85°C

Connection





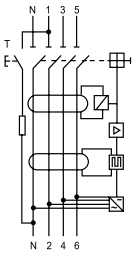
Rating	Tightening torque	Copper cables	
		Rigid	Flexible or ferrule



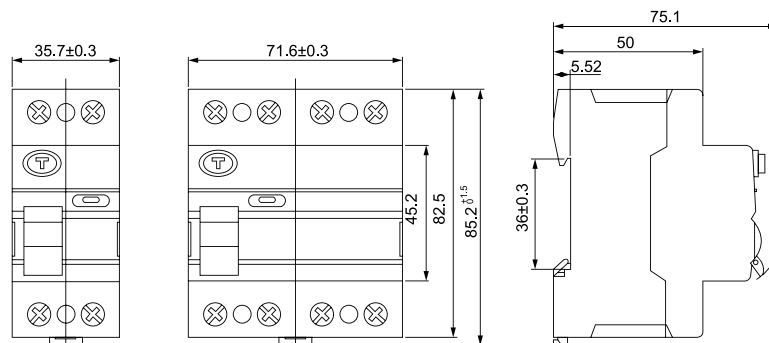
1 to 25 A	2 N.m	1 to 25 mm ²	1 to 16 mm ²
32 to 63 A	2.5 N.m	1 to 35 mm ²	1 to 25 mm ²

Catalogue numbers

TORD4B-63 **RCCB**

Type Product	B    					Width in 9 mm module	
4P	Sensitivity	30 mA	100 mA	300 mA	500 mA	8	
	Rating	25A	TORD4B-63/4/25/003	TORD4B-63/4/25/01	TORD4B-63/4/25/03		-
	40A	TORD4B-63/4/40/003	TORD4B-63/4/40/01	TORD4B-63/4/40/03	-		
	63A	TORD4B-63/4/63/003	TORD4B-63/4/63/01	TORD4B-63/4/63/03	-		
Voltage rating (Ue)	4P	380-415V					
Operating frequency	50Hz						

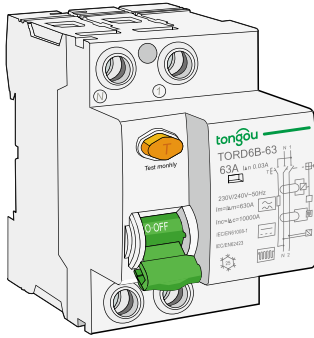
Dimensions (mm)



Protection
Earth leakage protection



TORD6B-63 Residual Current Circuit Breaker



IEC 61008-1 EN 61008-1 IEC/EN 62423

- The TORD6B-63 B type residual current circuit breakers provide:
 - Protection of persons against electric shock by direct contact (i_n 30 mA),
 - Protection of persons against electric shock by indirect contact (i_n 100 mA),
 - Protection of installations against the risk of fire (300 mA or 500 mA).
- Protection in the event of a continuous earth fault current on networks generated by:
 - Controllers and variable speed drives,
 - Battery chargers and inverters, such as used in photovoltaic application,
 - Backed-up power supplies.
- They include protection against earth fault currents:
 - Sinusoidal AC residual currents (AC type),
 - Pulsed DC residual currents (A type),
 - Multi frequency residual current (F type).
- For applications using 3-poles drives, such as:
 - Crane,
 - Lift,
 - HVAC,
 - Pumping system.

Main

Product or component type	Residual current circuit breaker(RCCB)
Device application	Electrical vehicle charger, Solar energy system
Poles description	2P
Network type	AC, Pulsing DC, Smooth DC
Earth-leakage sensitivity	30mA, 100mA-300mA
Earth-leakage protection class	Type B

Complementary

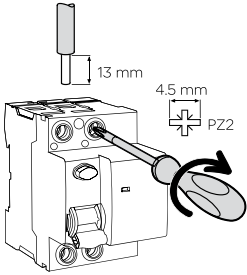
Device location in system	Group incomer
Network frequency	50Hz
Rated breaking and making capacity	Im 630A Idm630A
Rated conditional short-circuit current	10kA
[Ui] rated insulation voltage	250V
[Uimp] rated impulse withstand voltage	6kA
Contact position indicator	Yes
Control type	Toggle
Mounting mode	Clip-on
Mounting support	DIN rail
Colour	White
Mechanical durability	20000 cycles
Electrical durability	15000 cycles
Tightening torque	3.5N.m (top or bottom)

Environment

Standards	EN 61008-1, IEC 61008-1, IEC/EN 62423
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529
	IP20 conforming to IEC 60529
Operating altitude	2000 m
Ambient air temperature for operation	-25°C to +60°C
Ambient air temperature for storage	-40°C to +85°C

Connection

Rating	Tightening torque	Copper cables	
		Rigid	Flexible or ferrule

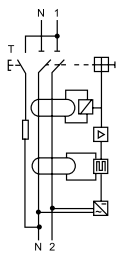


1 to 25 A	2 N.m	1 to 25 mm ²	1 to 16 mm ²
32 to 63 A	2.5 N.m	1 to 35 mm ²	1 to 25 mm ²

Catalogue numbers

TORD6B-63 RCCB

Type	Product	Width in 9 mm module		
2P	Sensitivity	30 mA	300 mA	500 mA



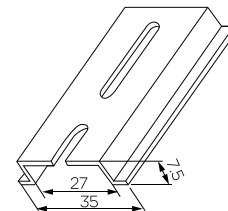
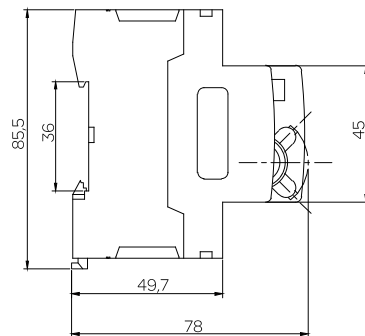
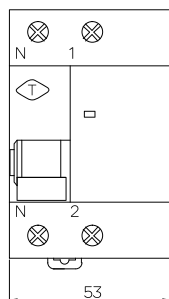
Rating

25A	TORD6B-63/4/25/003	TORD6B-63/4/25/03	-
40A	TORD6B-63/4/40/003	TORD6B-63/4/40/03	-
63A	TORD6B-63/4/63/003	TORD6B-63/4/63/03	-

6

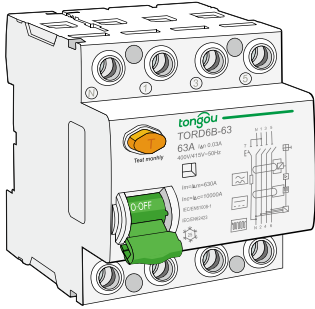
Voltage rating (Ue)	2P	230-240 V
Operating frequency		50Hz

Dimensions (mm)





TORD6B-63 Residual Current Circuit Breaker



IEC 61008-1 EN 61008-1 IEC/EN 62423

- The TORD6B-63 B type residual current circuit breakers provide:
 - Protection of persons against electric shock by direct contact (γ 30 mA),
 - Protection of persons against electric shock by indirect contact (u 100 mA),
 - Protection of installations against the risk of fire (300 mA or 500 mA).
- Protection in the event of a continuous earth fault current on networks generated by:
 - Controllers and variable speed drives,
 - Battery chargers and inverters, such as used in photovoltaic application,
 - Backed-up power supplies.
- They include protection against earth fault currents:
 - Sinusoidal AC residual currents (AC type),
 - Pulsed DC residual currents (A type),
 - Multi frequency residual current (F type).
- For applications using 3-poles drives, such as:
 - Crane,
 - Lift,
 - HVAC,
 - Pumping system.

Main

Product or component type	Residual current circuit breaker(RCCB)
Device application	Electrical vehicle charger, Solar energy system
Poles description	4P
Network type	AC, Pulsating DC, Smooth DC
Earth-leakage sensitivity	30mA, 100mA-300mA
Earth-leakage protection class	Type B

Complementary

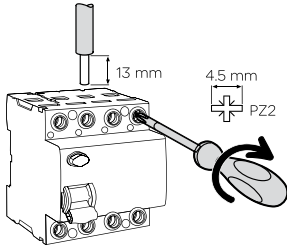
Device location in system	Group incomer
Network frequency	50Hz
Rated breaking and making capacity	Im 630A Idm630A
Rated conditional short-circuit current	10kA
[Ui] rated insulation voltage	250V
[Uimp] rated impulse withstand voltage	6kA
Contact position indicator	Yes
Control type	Toggle
Mounting mode	Clip-on
Mounting support	DIN rail
Colour	White
Mechanical durability	20000 cycles
Electrical durability	15000 cycles
Tightening torque	3.5N.m (top or bottom)

Environment

Standards	EN 61008-1, IEC 61008-1, IEC/EN 62423
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529
	IP20 conforming to IEC 60529
Operating altitude	2000 m
Ambient air temperature for operation	-25°C to +60°C
Ambient air temperature for storage	-40°C to +85°C

Connection

Rating	Tightening torque	Copper cables	
		Rigid	Flexible or ferrule



1 to 25 A	2 N.m	1 to 25 mm ²	1 to 16 mm ²
32 to 63 A	2.5 N.m	1 to 35 mm ²	1 to 25 mm ²

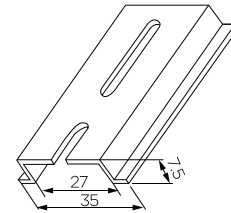
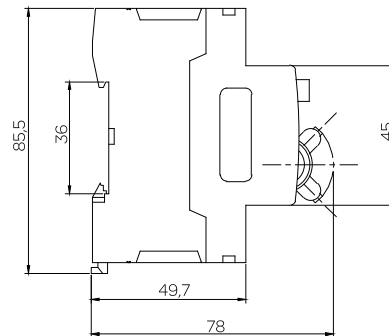
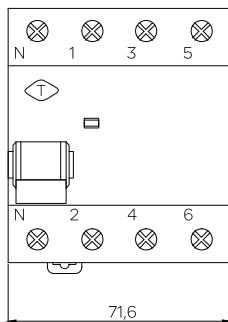
Catalogue numbers

TORD6B-63 RCCB

Type	B				Width in 9 mm module
Product					
4P	Sensitivity	30 mA	300 mA	500 mA	
	Rating	25A	TORD6B-63/4/25/003	TORD6B-63/4/25/03	-
		40A	TORD6B-63/4/40/003	TORD6B-63/4/40/03	TORD6B-63/4/40/05
		63A	TORD6B-63/4/63/003	TORD6B-63/4/63/03	TORD6B-63/4/63/05
		80A	TORD6B-63/4/80/003	TORD6B-63/4/80/03	TORD6B-63/4/80/05
Voltage rating (Ue)	4P	400-415 V			
Operating frequency		50Hz			

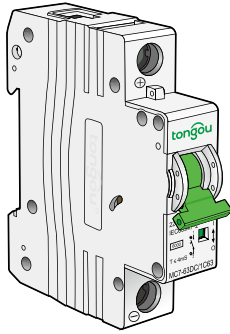
8

Dimensions (mm)





IEC 60947-2



■ TOMC7DC-63 circuit breakers are multi-standard circuit breakers which combine the following functions:

- Circuit protection against short-circuit currents,
- Circuit protection against overload currents,
- Suitable for industrial isolation according to IEC/EN 60947-2, standard.

Main

Product or component type	Miniature circuit-breaker
Device application	Distribution
Poles description	1P
Number of protected poles	1
Network type	DC
Trip unit technology	Thermal-magnetic
Curve code	C
Breaking capacity	6kA

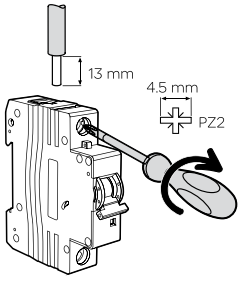
Complementary

[Ue] rated operational voltage	250V DC	
Control type	Toggle	
Local signalling	ON/OFF indication	
Mounting mode	Clip-on	
Mounting support	DIN rail 35mm	
Colour	Grey	
Endurance (O-C)	Electrical	10,000 cycles
	Mechanical durability	20,000 cycles


Environment

Standards	IEC 60947-2
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529
	IP20 conforming to IEC 60529
Operating altitude	2000 m
Ambient air temperature for operation	-35°C to +70°C
Ambient air temperature for storage	-40°C to +85°C

Connection

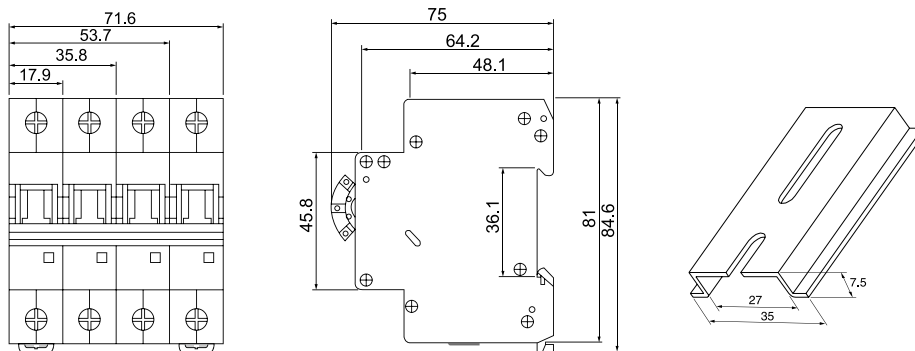
Rating	Tightening torque	Copper cables	
		Rigid	Flexible or ferrule
			
1 to 25 A	2 N.m	1 to 25 mm ²	1 to 16 mm ²
32 to 63 A	2.5 N.m	1 to 35 mm ²	1 to 25 mm ²

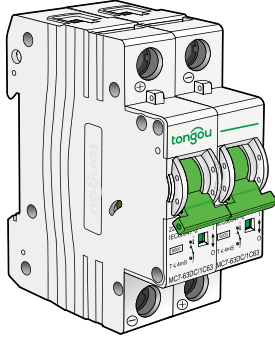
Catalog numbers

Type	Width 9 mm modules		
1P	Rating (In)	C Curve	D Curve
	1A	TOMC7DC-63/1/C1	TOMC7DC-63/1/D1
	3A	TOMC7DC-63/1/C3	TOMC7DC-63/1/D3
	5A	TOMC7DC-63/1/C5	TOMC7DC-63/1/D5
	6A	TOMC7DC-63/1/C6	TOMC7DC-63/1/D6
	10A	TOMC7DC-63/1/C10	TOMC7DC-63/1/D10
	16A	TOMC7DC-63/1/C16	TOMC7DC-63/1/D16
	20A	TOMC7DC-63/1/C20	TOMC7DC-63/1/D20
	25A	TOMC7DC-63/1/C25	TOMC7DC-63/1/D25
	32A	TOMC7DC-63/1/C32	TOMC7DC-63/1/D32
	40A	TOMC7DC-63/1/C40	TOMC7DC-63/1/D40
	50A	TOMC7DC-63/1/C50	TOMC7DC-63/1/D50
	63A	TOMC7DC-63/1/C63	TOMC7DC-63/1/D63

3

Dimensions (mm)





IEC 60947-2

- TOMC7DC-63 circuit breakers are multi-standard circuit breakers which combine the following functions:
 - Circuit protection against short-circuit currents,
 - Circuit protection against overload currents,
 - Suitable for industrial isolation according to IEC/EN 60947-2, standard.
 - Fault tripping indication by a red mechanical indicator in circuit breaker front face.

Main

Product or component type	Miniature circuit-breaker
Device application	Distribution
Poles description	2P
Number of protected poles	2
Network type	DC
Trip unit technology	Thermal-magnetic
Curve code	C
Breaking capacity	6kA

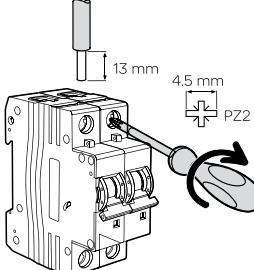
Complementary

[Ue] rated operational voltage	24V-1000V	
Control type	Toggle	
Local signalling	ON/OFF indication	
Mounting mode	Clip-on	
Mounting support	DIN rail 35mm	
Colour	Grey	
Endurance (O-C)	Electrical	10,000 cycles
	Mechanical durability	20,000 cycles

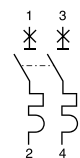
Environment

Standards	IEC 60947-2
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529
	IP20 conforming to IEC 60529
Operating altitude	2000 m
Ambient air temperature for operation	-35°C to +70°C
Ambient air temperature for storage	-40°C to +85°C

Connection

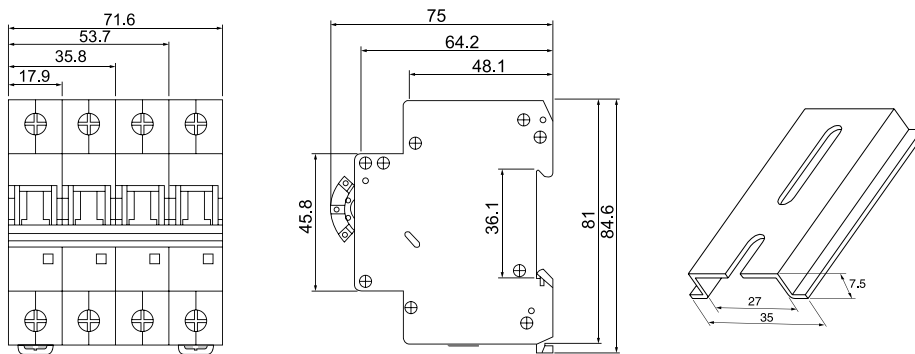
Rating	Tightening torque	Copper cables	
		Rigid	Flexible or ferrule
			
1 to 25 A	2 N.m	1 to 25 mm ²	1 to 16 mm ²
32 to 63 A	2.5 N.m	1 to 35 mm ²	1 to 25 mm ²

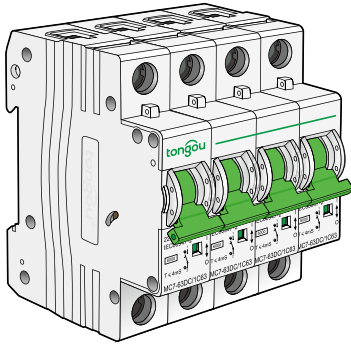
Catalog numbers

Type	Width 9 mm modules		
2P	Rating (In)	C Curve	D Curve
	1A	TOMC7DC-63/2/C1	TOMC7DC-63/2/D1
	3A	TOMC7DC-63/2/C3	TOMC7DC-63/2/D3
	5A	TOMC7DC-63/2/C5	TOMC7DC-63/2/D5
	6A	TOMC7DC-63/2/C6	TOMC7DC-63/2/D6
	10A	TOMC7DC-63/2/C10	TOMC7DC-63/2/D10
	16A	TOMC7DC-63/2/C16	TOMC7DC-63/2/D16
	20A	TOMC7DC-63/2/C20	TOMC7DC-63/2/D20
	25A	TOMC7DC-63/2/C25	TOMC7DC-63/2/D25
	32A	TOMC7DC-63/2/C32	TOMC7DC-63/2/D32
	40A	TOMC7DC-63/2/C40	TOMC7DC-63/2/D40
	50A	TOMC7DC-63/2/C50	TOMC7DC-63/2/D50
	63A	TOMC7DC-63/2/C63	TOMC7DC-63/2/D63

6

Dimensions (mm)





IEC 60947-2

- TOMC7DC-63 circuit breakers are multi-standard circuit breakers which combine the following functions:
 - Circuit protection against short-circuit currents,
 - Circuit protection against overload currents,
 - Suitable for industrial isolation according to IEC/EN 60947-2, standard.
 - Fault tripping indication by a red mechanical indicator in circuit breaker front face.

Main

Product or component type	Miniature circuit-breaker
Device application	Distribution
Poles description	4P
Number of protected poles	4
Network type	DC
Trip unit technology	Thermal-magnetic
Curve code	C
Breaking capacity	6kA

Complementary

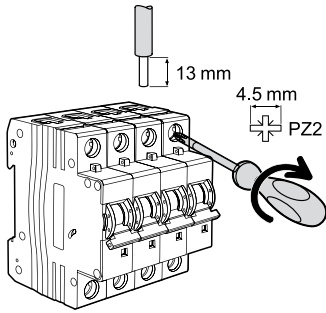
[Ue] rated operational voltage	1000V DC	
Control type	Toggle	
Local signalling	ON/OFF indication	
Mounting mode	Clip-on	
Mounting support	DIN rail 35mm	
Colour	Grey	
Endurance (O-C)	Electrical	10,000 cycles
	Mechanical durability	20,000 cycles

Environment

Standards	IEC 60947-2
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529
	IP20 conforming to IEC 60529
Operating altitude	2000 m
Ambient air temperature for operation	-35°C to +70°C
Ambient air temperature for storage	-40°C to +85°C

Connection

Rating	Tightening torque	Copper cables	
		Rigid	Flexible or ferrule

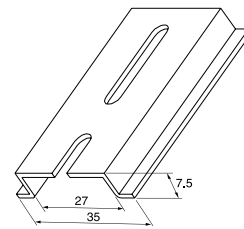
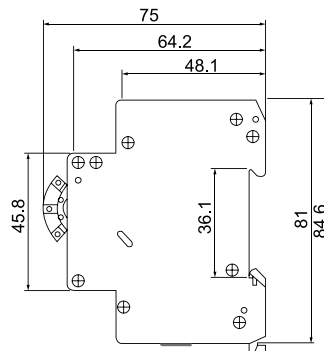
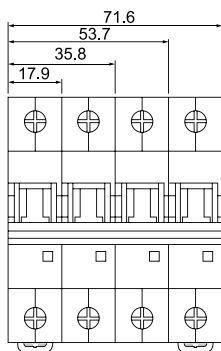


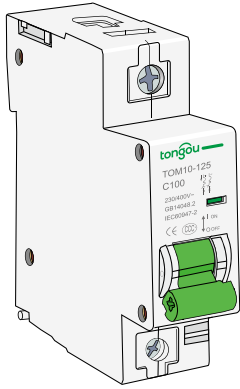
1 to 25 A	2 N.m	1 to 25 mm ²	1 to 16 mm ²
32 to 63 A	2.5 N.m	1 to 35 mm ²	1 to 25 mm ²

Catalog numbers

Type	Rating (In)	C Curve	D Curve	Width 9 mm modules
	1A	TOMC7DC-63/4/C1	TOMC7DC-63/4/D1	18
	3A	TOMC7DC-63/4/C3	TOMC7DC-63/4/D3	
	5A	TOMC7DC-63/4/C5	TOMC7DC-63/4/D5	
	6A	TOMC7DC-63/4/C6	TOMC7DC-63/4/D6	
	10A	TOMC7DC-63/4/C10	TOMC7DC-63/4/D10	
	16A	TOMC7DC-63/4/C16	TOMC7DC-63/4/D16	
	20A	TOMC7DC-63/4/C20	TOMC7DC-63/4/D20	
	25A	TOMC7DC-63/4/C25	TOMC7DC-63/4/D25	
	32A	TOMC7DC-63/4/C32	TOMC7DC-63/4/D32	
	40A	TOMC7DC-63/4/C40	TOMC7DC-63/4/D40	
	50A	TOMC7DC-63/4/C50	TOMC7DC-63/4/D50	
	63A	TOMC7DC-63/4/C63	TOMC7DC-63/4/D63	

Dimensions (mm)





IEC 60947-2

■ TOM10DC-125 circuit breakers are multi-standard circuit breakers which combine the following functions:

- Circuit protection against short-circuit currents,
- Circuit protection against overload currents,
- Suitable for industrial isolation according to IEC/EN 60947-2, standard.

Main

Product or component type	Miniature circuit-breaker
Device application	Distribution
Poles description	1P
Number of protected poles	1
Network type	DC
Trip unit technology	Thermal-magnetic
Curve code	C
Breaking capacity	10kA

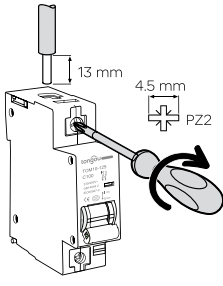

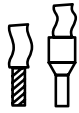
Complementary

[Ue] rated operational voltage	DC 24V-800V	
Control type	Toggle	
Local signalling	ON/OFF indication	
Mounting mode	Clip-on	
Mounting support	DIN rail 35mm	
Colour	Grey	
Endurance (O-C)	Electrical	10,000 cycles
	Mechanical durability	20,000 cycles


Environment

Standards	IEC 60947-2
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529
	IP20 conforming to IEC 60529
Operating altitude	2000 m
Ambient air temperature for operation	-35°C to +70°C
Ambient air temperature for storage	-40°C to +85°C

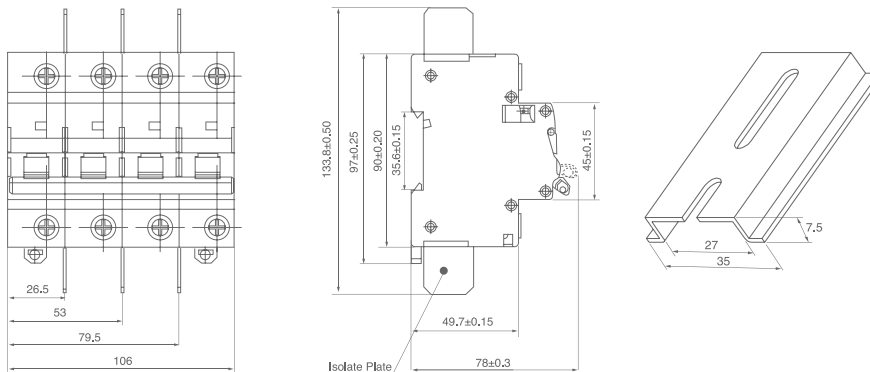
Connection

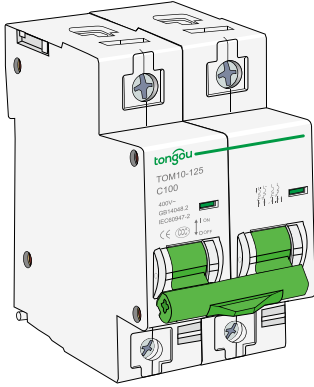
Rating	Tightening torque	Copper cables	
		Rigid	Flexible or ferrule
  			
63-125A	3.5 N.m	1 to 50 mm ²	1.5 to 35 mm ²

Catalog numbers

Type	Rating (In)	C Curve	Width 9 mm modules
1P			
	63A	TOM10DC-125/2/C63	2
	80A	TOM10DC-125/2/C80	
	100A	TOM10DC-125/2/C100	
	125A	TOM10DC-125/2/C125	

Dimensions (mm)





IEC 60947-2

- TOM10DC-125 circuit breakers are multi-standard circuit breakers which combine the following functions:
 - Circuit protection against short-circuit currents,
 - Circuit protection against overload currents,
 - Suitable for industrial isolation according to IEC/EN 60947-2, standard.
 - Fault tripping indication by a red mechanical indicator in circuit breaker front face.

Main

Product or component type	Miniature circuit-breaker
Device application	Distribution
Poles description	2P
Number of protected poles	2
Network type	DC
Trip unit technology	Thermal-magnetic
Curve code	C
Breaking capacity	10kA

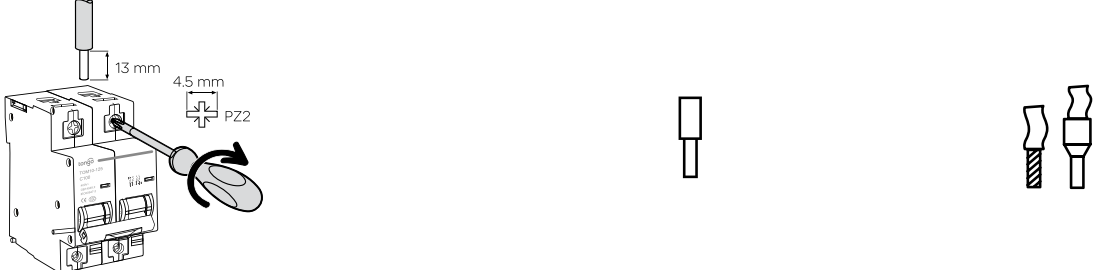
Complementary

[Ue] rated operational voltage	DC 24V-800V	
Control type	Toggle	
Local signalling	ON/OFF indication	
Mounting mode	Clip-on	
Mounting support	DIN rail 35mm	
Colour	Grey	
Endurance (O-C)	Electrical	10,000 cycles
	Mechanical durability	20,000 cycles

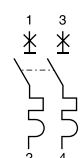
Environment

Standards	IEC 60947-2
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529
	IP20 conforming to IEC 60529
Operating altitude	2000 m
Ambient air temperature for operation	-35°C to +70°C
Ambient air temperature for storage	-40°C to +85°C

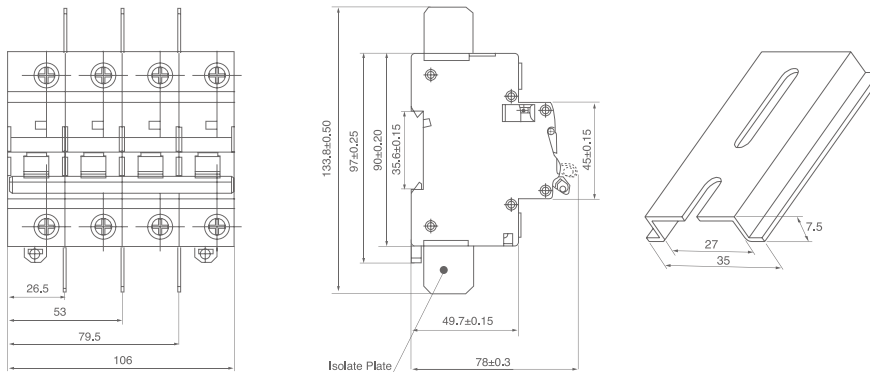
Connection

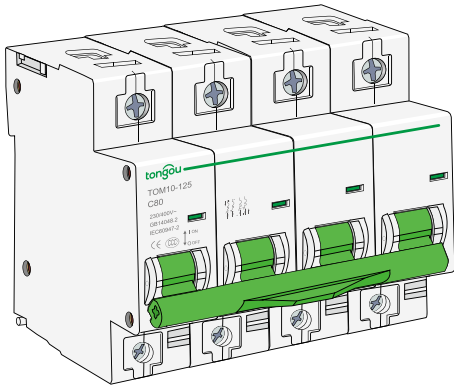
Rating	Tightening torque	Copper cables	
		Rigid	Flexible or ferrule
			
63-125A	3.5 N.m	1 to 50 mm ²	1.5 to 35 mm ²

Catalog numbers

Type	Rating (In)	C Curve	Width 9 mm modules
2P	63A	TOM10DC-125/2/C63	4
	80A	TOM10DC-125/2/C80	
	100A	TOM10DC-125/2/C100	
	125A	TOM10DC-125/2/C125	

Dimensions (mm)





IEC 60947-2

- TOM10DC-125 circuit breakers are multi-standard circuit breakers which combine the following functions:
 - Circuit protection against short-circuit currents,
 - Circuit protection against overload currents,
 - Suitable for industrial isolation according to IEC/EN 60947-2, standard.
 - Fault tripping indication by a red mechanical indicator in circuit breaker front face.

Main

Product or component type	Miniature circuit-breaker
Device application	Distribution
Poles description	4P
Number of protected poles	4
Network type	DC
Trip unit technology	Thermal-magnetic
Curve code	C
Breaking capacity	10kA

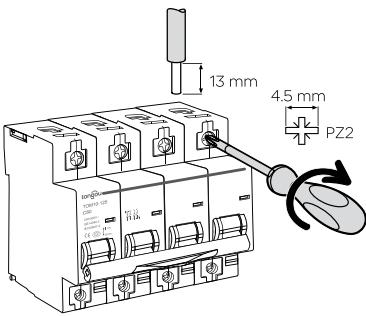

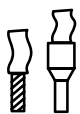
Complementary

[Ue] rated operational voltage	DC 24V-800V	
Control type	Toggle	
Local signalling	ON/OFF indication	
Mounting mode	Clip-on	
Mounting support	DIN rail 35mm	
Colour	Grey	
Endurance (O-C)	Electrical	10,000 cycles
	Mechanical durability	20,000 cycles

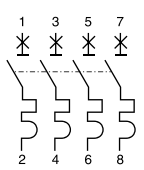
Environment

Standards	IEC 60947-2
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529
	IP20 conforming to IEC 60529
Operating altitude	2000 m
Ambient air temperature for operation	-35°C to +70°C
Ambient air temperature for storage	-40°C to +85°C

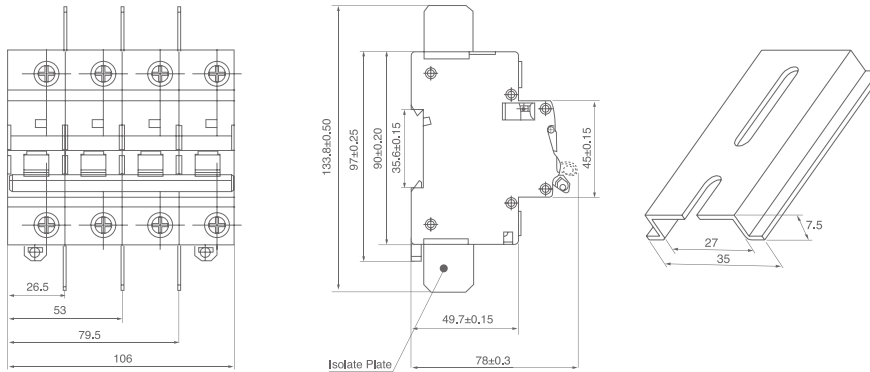
Connection

Rating	Tightening torque	Copper cables	
		Rigid	Flexible or ferrule
	3.5 N.m		
		1 to 50 mm ²	1.5 to 35 mm ²

Catalog numbers

Type	Rating (In)	C Curve	Width 9 mm modules
	63A	TOM10DC-125/2/C63	8
	80A	TOM10DC-125/2/C80	
	100A	TOM10DC-125/2/C100	
	125A	TOM10DC-125/2/C125	

Dimensions (mm)

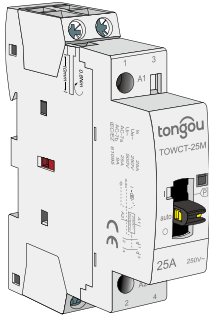




TOWCT-216M Contactor

TOWCT-220M (Manually-operated)

TOWCT-225M



IEC 61095

EN 61095

- TOWCT contactors are available in two versions:
 - Contactors without manually-operated
 - Contactors with manually-operated .
- The breadth of the TOWCT contactor range satisfies most application cases.
- TOMCT contactors can be used to remote control applications in alternative networks:
 - Lighting , heating , ventilation , roller blinds , sanitary hot water , card inseriyon system.
 - Mechanical ventilation systems, etc
 - Load-shedding of non-priority circuits

Main

Product or component type	Contactors
Device application	Remote control
Poles description	2P
Operation mode	Manually-operated
Network type	230 / 240V AC
Rated frequency	50/60Hz
Insulation voltage (U)	500V AC
Pollution degree	2
Rated impulse withstand voltage (Uimp)	2.5kv (4 kV for 12/24/48V AC)

Complementary

Control type	Toggle
Mounting mode	Clip-on
Mounting support	DIN rail 35mm
Colour	Grey
Electrical	100 , 000 cycles

Environment

Standards	IEC 61095 , EN61095
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529 IP20 conforming to IEC 60529
Ambient air temperature for operation	-5 °C to +60°C
Ambient air temperature for storage	-40°C to +70 °C
ELSV compliance (Extra Low Safety Voltage) for 12/24/48V AC versions	
The product control conforms to the SELV (safety extra low voltage) requirements	

Connection

Type	Rating	Length tripping	Circuit	Tightening torque	Copper cables		
					Rigid	Flexible or ferrule	
TOWCT	PZ2: 4 mm	16 - 25 A	9 mm	Control	0.8 N.m	1.5 to 2.5 mm: 2 x 1.5 mm ²	1.5 to 2.5 mm: 2 x 2.5 mm ²
	PZ2: 6 mm	32 A - 63 A	14 mm	Power	3.5 N.m	1.5 to 6 mm ² 6 to 25 mm ² 6 to 35 mm ²	1 to 4 mm ² 6 to 16 mm ² 6 to 35 mm ²

Catalogue numbers

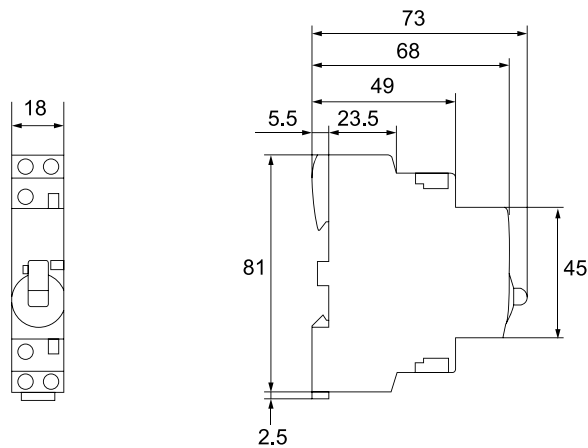
manual control contactor 50 Hz

Type	Rating (In)		Control voltage (V AC) (50/60 Hz)	Contact	Width in 9 mm modules	
2P 	AC7a	AC7b				
	16A	6A	12, 24, 48, 220...240	2NO	TOWCT-216M20	
			12, 24, 48, 220...240	1NO+1NC	TOWCT-216M11	
	20A	7A	12, 24, 48, 220...240	2NO	TOWCT-220M20	2
			12, 24, 48, 220...240	1NO+1NC	TOWCT-220M11	
	25A	8.5A	12, 24, 48, 220...240	2NO	TOWCT-225M20	
		12, 24, 48, 220...240	1NO+1NC	TOWCT-225M11		

Contractual warranty

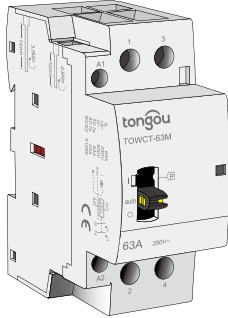
Warranty period 2 years

Dimensions (mm)





TOWCT-232M Contactor TOWCT-240M (Manually-operated) TOWCT-263M



IEC 61095

EN 61095

- TOWCT contactors are available in two versions:
 - Contactors without manually-operated
 - Contactors with manually-operated .
- The breadth of the TOWCT contactor range satisfies most application cases.
- TOMCT contactors can be used to remote control applications in alternative networks:
 - Lighting , heating , ventilation , roller blinds , sanitary hot water , card inseryion system.
- Mechanical ventilation systems, etc
 - Load-shedding of non-priority circuits

Main

Product or component type	Contactors
Device application	Remote control
Poles description	2P
Operation mode	Manually-operated
Network type	230 / 240V AC
Rated frequency	50/60Hz
Insulation voltage (U)	500V AC
Pollution degree	2
Rated impulse withstand voltage (Uimp)	2.5kv (4 kV for 12/24/48V AC)

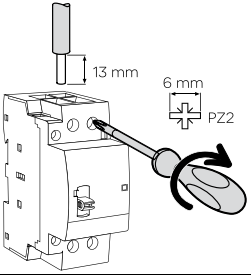
Complementary

Control type	Toggle
Mounting mode	Clip-on
Mounting support	DIN rail 35mm
Colour	Grey
Electrical	100 , 000 cycles

Environment

Standards	IEC 61095 , EN61095
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529 IP20 conforming to IEC 60529
Ambient air temperature for operation	-5 °C to +60°C
Ambient air temperature for storage	-40°C to +70 °C
ELSV compliance (Extra Low Safety Voltage) for 12/24/48V AC versions	
The product control conforms to the SELV (safety extra low voltage) requirements	

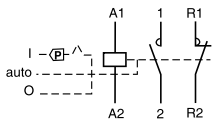
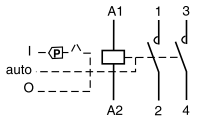
Connection

Type	Rating	Length tripping	Circuit	Tightening torque	Copper cables		
					Rigid	Flexible or ferrule	
							
TOWCT	PZ2: 4 mm	16 - 25 A	9 mm	Control	0.8 N.m	1.5 to 2.5 mm: 2 x 1.5 mm ²	1.5 to 2.5 mm: 2 x 2.5 mm ²
	PZ2: 6 mm	32 A - 63 A	14 mm	Power	3.5 N.m	1.5 to 6 mm ² 6 to 25 mm ² 6 to 35 mm ²	1 to 4 mm ² 6 to 16 mm ² 6 to 35 mm ²

Catalogue numbers

manual control contactor 50 Hz

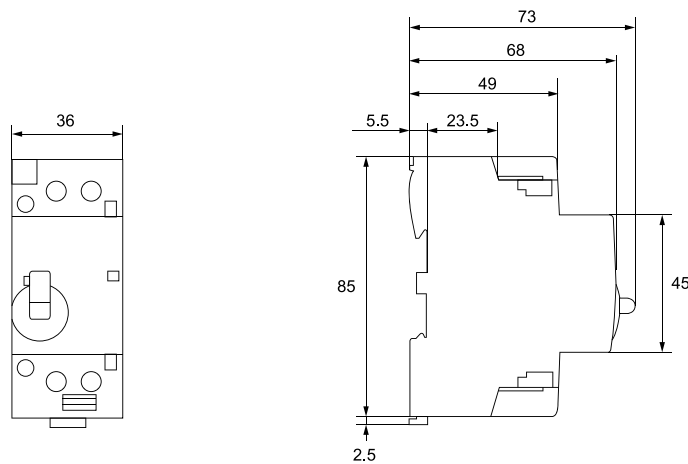
Type	Rating (In)		Control voltage (V AC) (50/60 Hz)	Contact	Width in 9 mm modules	
2P	AC7a	AC7b	12, 24, 48, 220...240	2NO	TOWCT-232M20	4
	32A	12A		1NO+1NC	TOWCT-232M11	
	40A	15A	12, 24, 48, 220...240	2NO	TOWCT-240M20	
				1NO+1NC	TOWCT-240M11	
	63A	20A	12, 24, 48, 220...240	2NO	TOWCT-263M20	
				1NO+1NC	TOWCT-263M11	



Contractual warranty

Warranty period 2 years

Dimensions (mm)

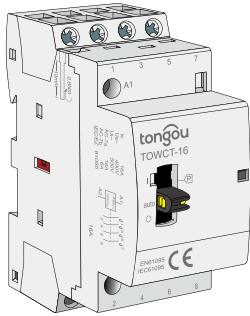




TOWCT-416M Contactor

TOWCT-420M (Manually-operated)

TOWCT-425M



IEC 61095

EN 61095

- TOWCT contactors are available in two versions:
 - Contactors without manually-operated
 - Contactors with manually-operated .
- The breadth of the TOWCT contactor range satisfies most application cases.
- TOMCT contactors can be used to remote control applications in alternative networks:
 - Lighting , heating , ventilation , roller blinds , sanitary hot water , card inseryion system.
- Mechanical ventilation systems, etc
 - Load-shedding of non-priority circuits

Main

Product or component type	Contactors
Device application	Remote control
Poles description	4P
Operation mode	Manually-operated
Network type	230 / 240V AC
Rated frequency	50/60Hz
Insulation voltage (U)	500V AC
Pollution degree	2
Rated impulse withstand voltage (Uimp)	2.5kv (4 kV for 12/24/48V AC)

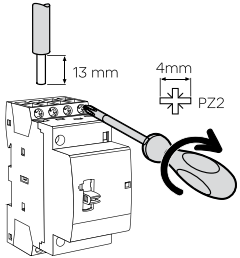
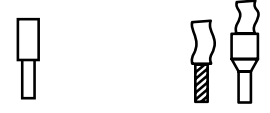
Complementary

Control type	Toggle
Mounting mode	Clip-on
Mounting support	DIN rail 35mm
Colour	Grey
Electrical	100 , 000 cycles

Environment

Standards	IEC 61095 , EN61095
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529 IP20 conforming to IEC 60529
Ambient air temperature for operation	-5 °C to +60°C
Ambient air temperature for storage	-40°C to +70 °C
ELSV compliance (Extra Low Safety Voltage) for 12/24/48V AC versions	
The product control conforms to the SELV (safety extra low voltage) requirements	

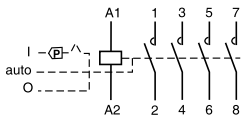
Connection

Type	Rating	Length tripping	Circuit	Tightening torque	Copper cables		
					Rigid	Flexible or ferrule	
 							
TOWCT	PZ2: 4 mm	16 - 25 A	9 mm	Control	0.8 N.m	1.5 to 2.5 mm: 2 x 1.5 mm ²	1.5 to 2.5 mm: 2 x 2.5 mm ²
	PZ2: 6 mm	32 A - 63 A	14 mm	Power	3.5 N.m	1.5 to 6 mm ² 6 to 25 mm ² 6 to 35 mm ²	1 to 4 mm ² 6 to 16 mm ² 6 to 35 mm ²

Catalogue numbers

manual control contactor 50 Hz

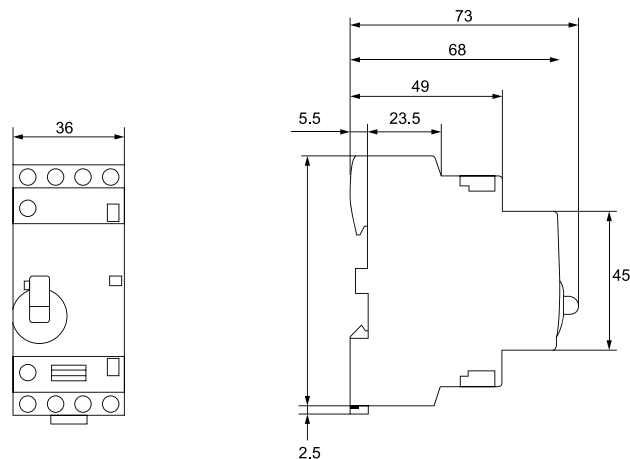
Type	Rating (In)		Control voltage (V AC) (50/60 Hz)	Contact	Width in 9 mm modules
4P	AC7a	AC7b	12, 24, 48, 220...240	4NO	TOWCT-416M40
				4NO	TOWCT-416M40
	16A	6A	12, 24, 48, 220...240	4NO	TOWCT-416M40
				4NO	TOWCT-416M40
				4NO	TOWCT-416M40
				4NO	TOWCT-416M40
	25A	7A	12, 24, 48, 220...240	4NO	TOWCT-425M40
				4NO	TOWCT-425M40
				4NO	TOWCT-425M40
				4NO	TOWCT-425M40
	32A	8.5A	12, 24, 48, 220...240	4NO	TOWCT-432M40
				4NO	TOWCT-432M40
4NO				TOWCT-432M40	



Contractual warranty

Warranty period 2 years

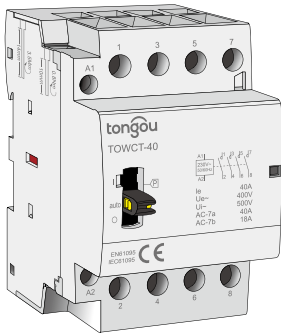
Dimensions (mm)



TOWCT-432M Contactor

TOWCT-440M (Manually-operated)

TOWCT-463M



IEC 61095 EN 61095

- TOWCT contactors are available in two versions:
 - Contactors without manually-operated
 - Contactors with manually-operated .
- The breadth of the TOWCT contactor range satisfies most application cases.
- TOMCT contactors can be used to remote control applications in alternative networks:
 - Lighting , heating , ventilation , roller blinds , sanitary hot water , card inseriyon system.
 - Mechanical ventilation systems, etc
 - Load-shedding of non-priority circuits

Main

Product or component type	Contactors
Device application	Remote control
Poles description	4P
Operation mode	Manually-operated
Network type	230 / 240V AC
Rated frequency	50/60Hz
Insulation voltage (U)	500V AC
Pollution degree	2
Rated impulse withstand voltage (Uimp)	2.5kv (4 kV for 12/24/48V AC)

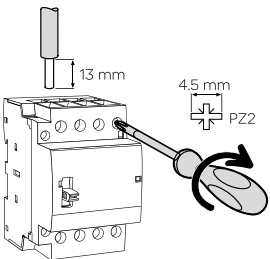
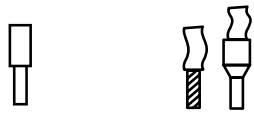
Complementary

Control type	Toggle
Mounting mode	Clip-on
Mounting support	DIN rail 35mm
Colour	Grey
Electrical	100 , 000 cycles

Environment

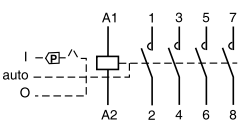
Standards	IEC 61095 , EN61095
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529 IP20 conforming to IEC 60529
Ambient air temperature for operation	-5 °C to +60°C
Ambient air temperature for storage	-40°C to +70 °C
ELSV compliance (Extra Low Safety Voltage) for 12/24/48V AC versions	
The product control conforms to the SELV (safety extra low voltage) requirements	

Connection

Type	Rating	Length tripping	Circuit	Tightening torque	Copper cables		
					Rigid	Flexible or ferrule	
 							
TOWCT	PZ2: 4 mm	16 - 25 A	9 mm	Control	0.8 N.m	1.5 to 2.5 mm: 2 x 1.5 mm ²	1.5 to 2.5 mm: 2 x 2.5 mm ²
	PZ2: 6 mm	32 A - 63 A	14 mm	Power	3.5 N.m	1.5 to 6 mm ² 6 to 25 mm ² 6 to 35 mm ²	1 to 4 mm ² 6 to 16 mm ² 6 to 35 mm ²

Catalogue numbers

manual control contactor 50 Hz

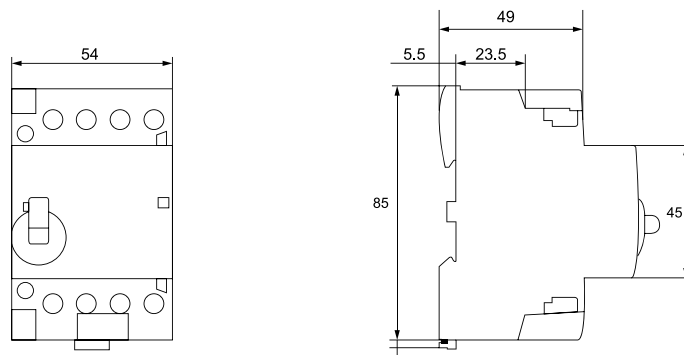
Type	Rating (In)		Control voltage	Contact	Width in 9 mm modules
4P	AC7a	AC7b	(V AC) (50/60 Hz)		
	32A	12A	12, 24, 48, 220...240	4NO	TOWCT-432M40
			12, 24, 48, 220...240	4NO	TOWCT-432M22
			12, 24, 48, 220...240	4NO	TOWCT-432M04
			12, 24, 48, 220...240	4NO	TOWCT-432M31
	40A	15A	12, 24, 48, 220...240	4NO	TOWCT-440M40
			12, 24, 48, 220...240	4NO	TOWCT-440M22
			12, 24, 48, 220...240	4NO	TOWCT-440M04
			12, 24, 48, 220...240	4NO	TOWCT-440M31
	63A	20A	12, 24, 48, 220...240	4NO	TOWCT-463M40
			12, 24, 48, 220...240	4NO	TOWCT-463M22
			12, 24, 48, 220...240	4NO	TOWCT-463M04
			12, 24, 48, 220...240	4NO	TOWCT-463M31

6

Contractual warranty

Warranty period	2 years
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Dimensions (mm)



Connection

Type	Rating	Length tripping	Circuit	Tightening torque	Copper cables		
					Rigid	Flexible or ferrule	
TOWCT	PZ2: 4 mm	16 - 25 A	9 mm	Control	0.8 N.m	1.5 to 2.5 mm: 2 x 1.5 mm ²	1.5 to 2.5 mm: 2 x 2.5 mm ²
				Power	0.8 N.m	1.5 to 6 mm ²	1 to 4 mm ²
	PZ2: 6 mm	32 A - 63 A	14 mm	Control	3.5 N.m	6 to 25 mm ²	6 to 16 mm ²
				Power	3.5 N.m	6 to 35 mm ²	6 to 35 mm ²

Catalogue numbers

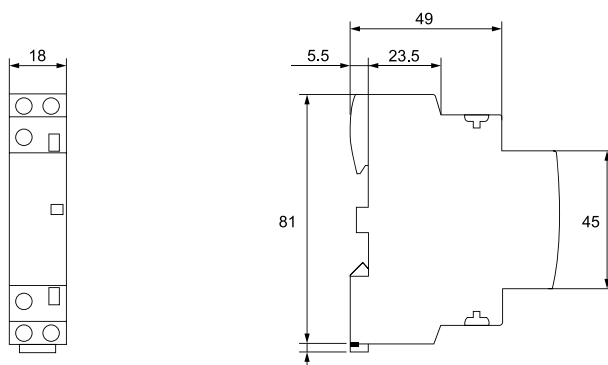
manual control contactor 50 Hz

Type	Width in 9 mm modules					
2P	Rating (In)		Control voltage (V AC) (50/60 Hz)	Contact		
	AC7a	AC7b	12, 24, 220...240	2NO	TOWCT-21620	
	16A	6A	12, 24, 220...240	1NO+1NC	TOWCT-21611	
			12, 24, 220...240	2NC	TOWCT-21602	
			12, 24, 220...240	2NO	TOWCT-22020	
	20A	7A	12, 24, 220...240	1NO+1NC	TOWCT-22011	2
			12, 24, 220...240	2NC	TOWCT-22002	
12, 24, 220...240			2NO	TOWCT-22520		
25A	8.5A	12, 24, 220...240	1NO+1NC	TOWCT-22511		
		12, 24, 220...240	2NC	TOWCT-22502		
		12, 24, 220...240	2NO	TOWCT-22502		

Contractual warranty

Warranty period	2 years
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Dimensions (mm)

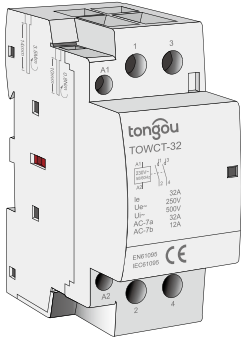


TOWCT-232 Contactor

TOWCT-240

TOWCT-263

TOWCT-2100



IEC 61095 EN 61095

- TOWCT contactors are available in two versions:
 - Contactors without manually-operated
 - Contactors with manually-operated .
- The breadth of the TOWCT contactor range satisfies most application cases.
- TOMCT contactors can be used to remote control applications in alternative networks:
 - Lighting , heating , ventilation , roller blinds , sanitary hot water , card inseryion system.
- Mechanical ventilation systems, etc
 - Load-shedding of non-priority circuits

Main

Product or component type	Contactors
Device application	Remote control
Poles description	2P
Operation mode	Auto operated
Network type	230 / 240V AC
Rated frequency	50/60Hz
Insulation voltage (U)	500V AC
Pollution degree	2
Rated impulse withstand voltage (Uimp)	2.5kV (4 kV for 12/24/48V AC)

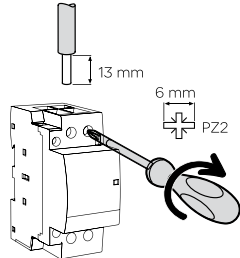

Complementary

Control type	Toggle
Mounting mode	Clip-on
Mounting support	DIN rail 35mm
Colour	Grey
Electrical	100 , 000 cycles

Environment

Standards	IEC 61095 , EN61095
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529 IP20 conforming to IEC 60529
Ambient air temperature for operation	-5 °C to +60°C
Ambient air temperature for storage	-40°C to +70 °C
ELSV compliance (Extra Low Safety Voltage) for 12/24/48V AC versions	
The product control conforms to the SELV (safety extra low voltage) requirements	

Connection

Type	Rating	Length tripping	Circuit	Tightening torque	Copper cables		
					Rigid	Flexible or ferrule	
 							
TOWCT	PZ2: 4 mm	16 - 25 A	9 mm	Control	0.8 N.m	1.5 to 2.5 mm: 2 x 1.5 mm ²	1.5 to 2.5 mm: 2 x 2.5 mm ²
	PZ2: 6 mm	32 A - 63 A	14 mm	Power	3.5 N.m	1.5 to 6 mm ² 6 to 25 mm ² 6 to 35 mm ²	1 to 4 mm ² 6 to 16 mm ² 6 to 35 mm ²

Catalogue numbers

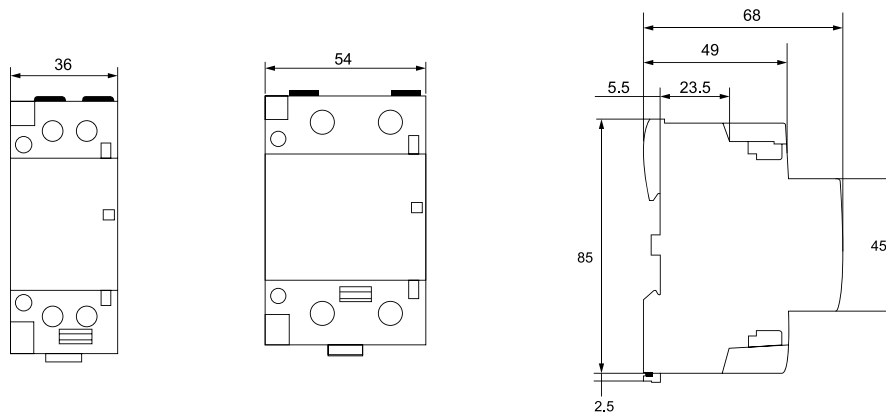
manual control contactor 50 Hz

Type	Rating (In)		Control voltage (V AC) (50/60 Hz)	Contact	Width in 9 mm modules	
2P	AC7a	AC7b	12, 24, 220...240	2NO	TOWCT-23220	
				1NO+1NC	TOWCT-23211	
	32A	12A	12, 24, 220...240	2NC	TOWCT-23202	
				2NO	TOWCT-24020	
	40A	15A	12, 24, 220...240	1NO+1NC	TOWCT-24011	4
				2NC	TOWCT-24002	
	63A	20A	12, 24, 220...240	2NO	TOWCT-26320	
				1NO+1NC	TOWCT-26311	
	100A	-	220...240	2NC	TOWCT-26302	
				2NO	TOWCT-210020	6

Contractual warranty

Warranty period 2 years

Dimensions (mm)

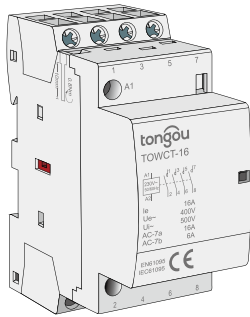




TOWCT-416 Contactor

TOWCT-420

TOWCT-425



IEC 61095

EN 61095

- TOWCT contactors are available in two versions:
 - Contactors without manually-operated
 - Contactors with manually-operated .
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- TOWCT contactors can be used to remote control applications in alternative networks:
 - Lighting , heating , ventilation , roller blinds , sanitary hot water , card insertion system.
 - Mechanical ventilation systems, etc
 - Load-shedding of non-priority circuits

Main

Product or component type	Contactors
Device application	Remote control
Poles description	4P
Operation mode	Auto operated
Network type	230 / 240V AC
Rated frequency	50/60Hz
Insulation voltage (U)	500V AC
Pollution degree	2
Rated impulse withstand voltage (Uimp)	2.5kv (4 kV for 12/24/48V AC)

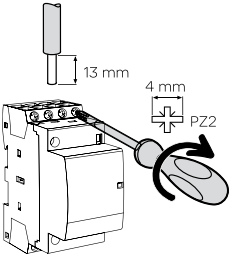
Complementary

Control type	Toggle
Mounting mode	Clip-on
Mounting support	DIN rail 35mm
Colour	Grey
Electrical	100 , 000 cycles

Environment

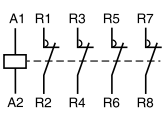
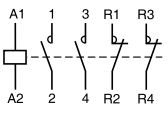
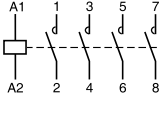
Standards	IEC 61095 , EN61095
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529 IP20 conforming to IEC 60529
Ambient air temperature for operation	-5 °C to +60°C
Ambient air temperature for storage	-40°C to +70 °C
ELSV compliance (Extra Low Safety Voltage) for 12/24/48V AC versions	
The product control conforms to the SELV (safety extra low voltage) requirements	

Connection

Type	Rating	Length tripping	Circuit	Tightening torque	Copper cables		
					Rigid	Flexible or ferrule	
							
TOWCT	PZ2: 4 mm	16 - 25 A	9 mm	Control	0.8 N.m	1.5 to 2.5 mm: 2 x 1.5 mm ²	1.5 to 2.5 mm: 2 x 2.5 mm ²
	PZ2: 6 mm	32 A - 63 A	14 mm	Power	3.5 N.m	1.5 to 6 mm ² 6 to 25 mm ² 6 to 35 mm ²	1 to 4 mm ² 6 to 16 mm ² 6 to 35 mm ²

Catalogue numbers

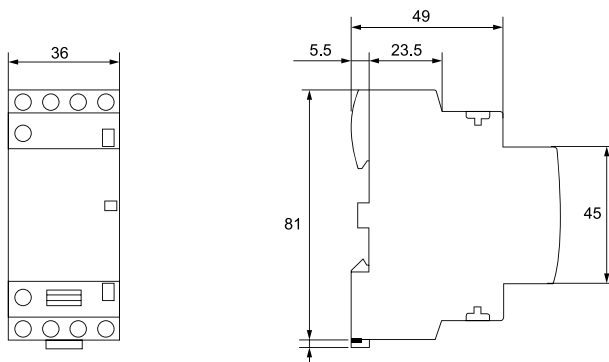
manual control contactor 50 Hz

Type	Rating (In)		Control voltage (V AC) (50/60 Hz)	Contact	Width in 9 mm modules
4P	AC7a	AC7b			
	16A	12A	12, 24, 48, 220...240	4NO	TOWCT-41640
			12, 24, 48, 220...240	2NO+2NC	TOWCT-41622
			12, 24, 48, 220...240	4NC	TOWCT-41604
			12, 24, 48, 220...240	3NO+1NC	TOWCT-41631
	20A	15A	12, 24, 48, 220...240	4NO	TOWCT-42040
			12, 24, 48, 220...240	2NO+2NC	TOWCT-42022
			12, 24, 48, 220...240	4NC	TOWCT-42004
			12, 24, 48, 220...240	3NO+1NC	TOWCT-42031
	25A	20A	12, 24, 48, 220...240	4NO	TOWCT-42540
			12, 24, 48, 220...240	2NO+2NC	TOWCT-42522
			12, 24, 48, 220...240	4NC	TOWCT-42504
			12, 24, 48, 220...240	3NO+1NC	TOWCT-42531

Contractual warranty

Warranty period	2 years
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Dimensions (mm)

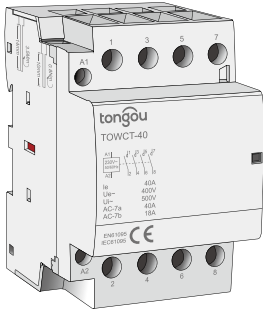


TOWCT-432 Contactor

TOWCT-440

TOWCT-463

TOWCT-4100



IEC 61095 EN 61095

- TOWCT contactors are available in two versions:
 - Contactors without manually-operated
 - Contactors with manually-operated .
- The breadth of the TOWCT contactor range satisfies most application cases.
- TOMCT contactors can be used to remote control applications in alternative networks:
 - Lighting , heating , ventilation , roller blinds , sanitary hot water , card inseriyon system.
 - Mechanical ventilation systems, etc
 - Load-shedding of non-priority circuits

Main

Product or component type	Contactors
Device application	Remote control
Poles description	4P
Operation mode	Auto operated
Network type	230 / 240V AC
Rated frequency	50/60Hz
Insulation voltage (U)	500V AC
Pollution degree	2
Rated impulse withstand voltage (Uimp)	2.5kv (4 kV for 12/24/48V AC)

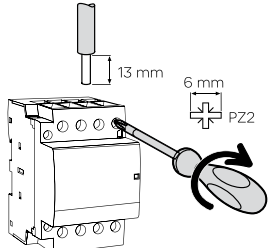

Complementary

Control type	Toggle
Mounting mode	Clip-on
Mounting support	DIN rail 35mm
Colour	Grey
Electrical	100 , 000 cycles

Environment

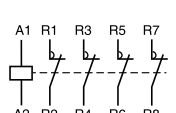
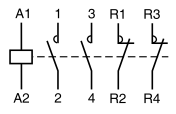
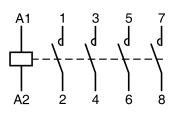
Standards	IEC 61095 , EN61095
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529 IP20 conforming to IEC 60529
Ambient air temperature for operation	-5 °C to +60°C
Ambient air temperature for storage	-40°C to +70 °C
ELSV compliance (Extra Low Safety Voltage) for 12/24/48V AC versions	
The product control conforms to the SELV (safety extra low voltage) requirements	

Connection

Type	Rating	Length tripping	Circuit	Tightening torque	Copper cables		
					Rigid	Flexible or ferrule	
 							
TOWCT	PZ2: 4 mm	16 - 25 A	9 mm	Control	0.8 N.m	1.5 to 2.5 mm: 2 x 1.5 mm ²	1.5 to 2.5 mm: 2 x 2.5 mm ²
	PZ2: 6 mm	32 A - 63 A	14 mm	Power	3.5 N.m	1.5 to 6 mm ² 6 to 25 mm ² 6 to 35 mm ²	1 to 4 mm ² 6 to 16 mm ² 6 to 35 mm ²

Catalogue numbers

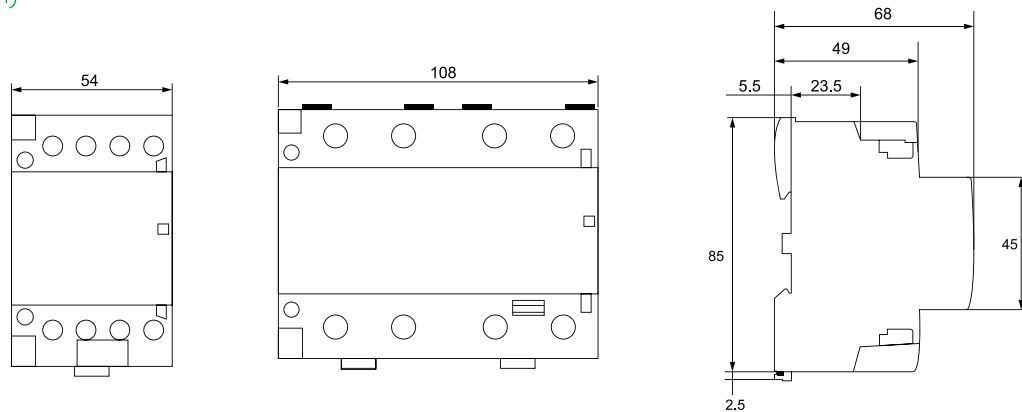
manual control contactor 50 Hz

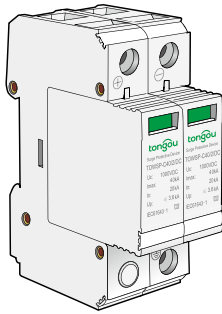
Type	Rating (In)		Control voltage (V AC) (50/60 Hz)	Contact	Width in 9 mm modules	
4P		AC7a	AC7b	12, 24, 48, 220...240	4NO	TOWCT-43240
		32A	12A	12, 24, 48, 220...240	2NO+2NC	TOWCT-43222
		40A	15A	12, 24, 48, 220...240	4NC	TOWCT-43204
				12, 24, 48, 220...240	3NO+1NC	TOWCT-43231
				12, 24, 48, 220...240	4NO	TOWCT-44040
				12, 24, 48, 220...240	2NO+2NC	TOWCT-44022
		63A	20A	12, 24, 48, 220...240	4NC	TOWCT-44004
				12, 24, 48, 220...240	3NO+1NC	TOWCT-44031
				12, 24, 48, 220...240	4NO	TOWCT-46340
				12, 24, 48, 220...240	2NO+2NC	TOWCT-46322
	100A	-	220...240	12, 24, 48, 220...240	4NC	TOWCT-46304
				12, 24, 48, 220...240	3NO+1NC	TOWCT-46331
100A	-	220...240	4NO	TOWCT-410040	12	

Contractual warranty

Warranty period	2 years
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Dimensions (mm)





IEC 61643-11 EN 61443-11

- Each surge arrester in the range has a specific application:
 - Incoming protection (type 2):
 - The TOWSP-C40/1 is recommended for a high risk level
 - Secondary protection (type 2 or 3):
 - The TOWSP-D10/1 ensures secondary protection of loads to be protected and is placed in cascade with the incoming surge arresters. This surge arrester is required when the loads to be protected are at a distance of more than 10 m from the incoming surge arrester.

The TOWSP surge arresters with "r" indication have remote transfer of the information: "cartridge to be replaced".

TOWSP withdrawable surge arresters allow quick replacement of damaged cartridges. Type 2 surge arresters are tested with a 8/20 as current wave. Type 3 surge arresters are tested with a 1.2/50 as and 8/20 as combined wave.

Main

Product or component type	Surge arresters
Device application	Load Protection
Operating frequency	50/60 Hz
Operating voltage (Ue)	1000V (+/- 10 %) DC
Permanent operating current (Ic)	< 1 mA
Response time	< 25 ns
Short circuit withstand (Iscsr)	50 kA (50 Hz)

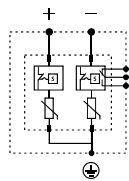
Complementary

Surge arrester class type	Type 2
Surge arrester technology	MOV
[In] nominal discharge current	20 kA
[Imax] maximum discharge current	40 kA
[Ucpv] maximum continuous operating voltage	Differential mode : 1000 V L+/LCommon mode : 1000 V L+/PE Common mode : 1000 V L-/PE
[Up] voltage protection level	<= 3.9 kV type 2 common mode L+/PE <= 3.9 kV type 2 common mode L-/PE <= 3.9 kV type 2 differential mode L+/L
Disconnecter device type	Integrated disconnecter
Local signalling	Flag color: white/red
Signalling circuit voltage	AC : 250 V 50/60 Hz
Signalling output current	0.25 A
Mounting mode	Clip-on
Mounting support	DIN rail
9 mm pitches	6

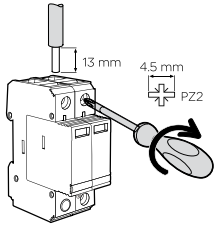

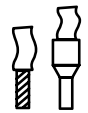
Environment

Standards	EN 50539-11 : 2013 UTE C 61740-51
Product certifications	CE
IP degree of protection	On front face : IP40 On terminal : IP20
IK degree of protection	IK03
Relative humidity	5...95 %
Operating altitude	2000 m
Ambient air temperature for operation	-25...60 °C
Ambient air temperature for storage	-40...85 °C

Catalogue numbers

Rated discharge current (I _{max})	Nominal discharge current (I _n)	Type of protection	Network
40 kA	15 kA	TOWSP-C40/2/DC	
High risk level		Incoming	Secondaring
10 kA	2.5 kA	TOWSP-D10/2	
Secondary protection: placed near the loads to be protected when they are at a distance of more than 10 m from the incoming surge arrester			

Connection

Type	Tightening torque	Copper cables	Flexible or ferrule
			
TOWSP-D20	2.5 N.m	2.5 to 25 mm ²	4 to 16 mm ²

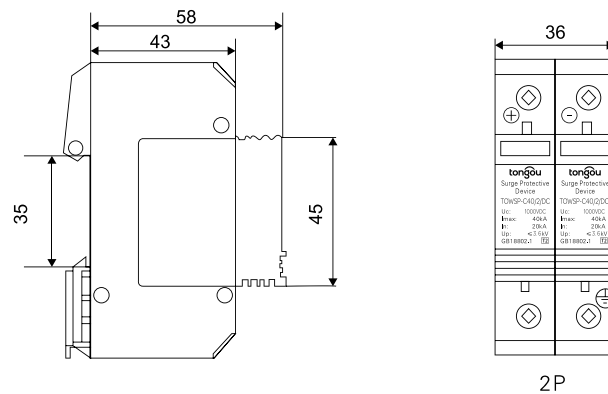
Weight (g)

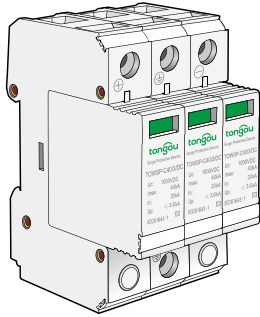
Surge Arrester	Type	TOWSP-C40/2/DC
2P		260

Contractual warranty

Warranty period	2 Years

Dimensions (mm)





IEC 61643-11

EN 61443-11

- Each surge arrester in the range has a specific application:
 - Incoming protection (type 2):
 - The TOWSP-C40/1 is recommended for a high risk level
 - Secondary protection (type 2 or 3):
- The TOWSP-D10/1 ensures secondary protection of loads to be protected and is placed in
 - Cascade with the incoming surge arresters. This surge arrester is required when the loads to be protected are at a distance of more than 10 m from the incoming surge arrester.

The TOWSP surge arresters with "r" indication have remote transfer of the information: "cartridge to be replaced".

TOWSP withdrawable surge arresters allow quick replacement of damaged cartridges.

Type 2 surge arresters are tested with a 8/20 as current wave.

Type 3 surge arresters are tested with a 1.2/50 as and 8/20 as combined wave.

Main

Product or component type	Surge arresters
Device application	Load Protection
Operating frequency	50/60 Hz
Operating voltage (Ue)	1000V (+/- 10 %) DC
Permanent operating current (Ic)	< 1 mA
Response time	< 25 ns
Short circuit withstand (Isc cr)	50 kA (50 Hz)

Complementary

Surge arrester class type	Type 2
Surge arrester technology	MOV
[In] nominal discharge current	20 kA
[Imax] maximum discharge current	40 kA
[Uc _{pv}] maximum continuous operating voltage	Differential mode : 1000 V L+/LCommon mode : 1000 V L+/PE Common mode : 1000 V L-/PE
[Up] voltage protection level	<= 3.9 kV type 2 common mode L+/PE <= 3.9 kV type 2 common mode L-/PE <= 3.9 kV type 2 differential mode L+/L
Disconnecter device type	Integrated disconnecter
Local signalling	Flag color: white/red
Signalling circuit voltage	AC : 250 V 50/60 Hz
Signalling output current	0.25 A
Mounting mode	Clip-on
Mounting support	DIN rail
9 mm pitches	6

Environment

Standards	EN 50539-11 : 2013 UTE C 61740-51
Product certifications	CE
IP degree of protection	On front face : IP40 On terminal : IP20
IK degree of protection	IK03
Relative humidity	5...95 %
Operating altitude	2000 m
Ambient air temperature for operation	-25...60 °C
Ambient air temperature for storage	-40...85 °C

Catalogue numbers

Rated discharge current (I _{max})	Nominal discharge current (I _n)	Type of protection	Network
		Incoming	Secondaring
TOWSP-C40			
40 kA High risk level	15 kA	TOWSP-C40/3/DC	
10 kA			
Secondary protection: placed near the loads to be protected when they are at a distance of more than 10 m from the incoming surge arrester	2.5 kA		TOWSP-D10/3

Connection

Type	Tightening torque	Copper cables	
		Rigid	Flexible or ferrule
TOWSP-D20	2.5 N.m	2.5 to 25 mm ²	4 to 16 mm ²

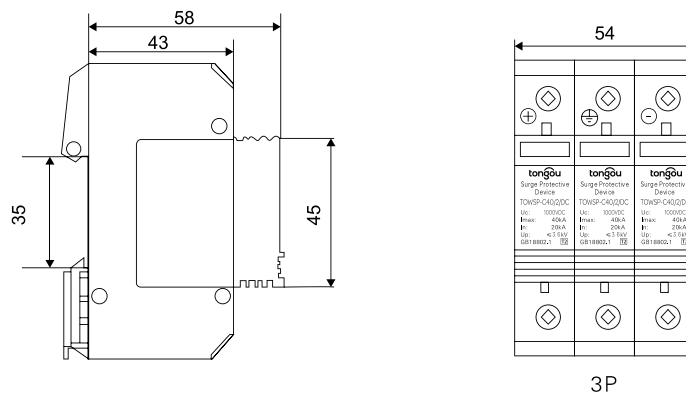
Weight (g)

Surge Arrester	
Type	TOWSP-C40/3/DC
3P	300

Contractual warranty

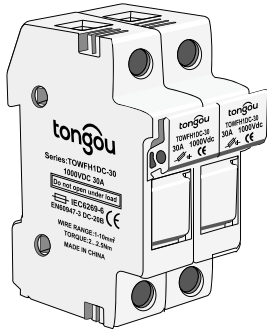
Warranty period	2 Years
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Dimensions (mm)





TOWF1DC-30 DC Fuse Holder (Solar Energy System)



IEC 60947-2
IEC 60269-1

- Circuit protection against short-circuit currents.
- Circuit protection against overload currents.

Main

Product or component type	Fuse-disconnector
Device application	Distribution
Network type	DC

Complementary

[In] Rated current	3, 3.15, 3.5, 4, 5, 6, 8, 10, 12, 15, 16, 20, 25, 30A
Fuse size	10×38
[Ue] Rated operational coltage	1000V, 1500VDC
Mounting support	35mm symmetrical DIN rail
Connections-terminals	Screw clamp terminals 1 cable(s) 2.5...25 mm ² rigid Screw clamp terminals 1 cable(s) 2.5...25 mm ² flexible
Tightening torque	3,5N.m

Environment

Standards	IEC60269-1
Pollution degree	3
Ambient air temperature for operation	-20...60°C
Ambient air temperature for storage	-40...80°C

Dimensions (mm)

