



Solar Product CATALOG

- Solar Pump Inverter
- Solar Cable
- Solar Connector
- WiFi Breaker
- Contact

Content



03

AA3700S

- Solar Pump Inverter
- 1/3 Phase 0-220/240 VAC
- Input Max Power 5Kw,
- Input Max Voltage 450 VDC
- Output rate AC current 17A,
- Adapting Motor Power 2.2 Kw



04

BC-5007

PV Solar Power Cable 1 x 4.0MM², Red 50M./roll

BC-5008

PV Solar Power Cable 1 x 4.0MM², Black 50M./roll



05

BC-5001

MC4 Solar Connector (Pairs)

BC5002

MC4 Solar Panel Connector (Pairs)



06

BC-5003

MC4 T Solar Connector 2 to 1 (Pairs)

BC-5004

MC4 T Solar Connector 3 to 1 (Pairs)

BC-5005

MC4 T Solar Connector 4 to 1 (Pairs)



07

BC-5006

MC4 Y Solar Branch Cable 2 to 1 (Pairs) 30cm. length.



WiFi Breaker 50 A

08

BC-W50A

- WiFi-Circuit Breaker Remote Control,
- 1P + N 50A 19mm, DIN-Rail
- WiFi เบนทเกอร์ เบ็ด-เบ็ด ระยะไกลผ่าน WiFi หรือ 4G ด้วยมือถือได้ทั่วโลก



RCBO 32 A, 2 POLE

09

002106

- 2P 32A 30mA 6KA Curve C, Electromagnetic type
- อุปกรณ์ป้องกันไฟช็อต, ไฟเกิน, ไฟดูดหรือไฟรั่ว



RCBO 25 A, 1 POLE

10

002206

- 1P 25A 30mA 6KA Curve C, Electronic type
- อุปกรณ์ป้องกันไฟช็อต, ไฟเกิน, ไฟดูดหรือไฟรั่ว



Contactor 63 A

11

BC-D63A

- Delay Contactor, 63A 2P 36mm, 1NO+1NC 220V, Din-Rail



Contactor 25 A

12

BC-D25A

- Delay Contactor, 25A 2P 18mm, 1NO+1NC 220V, Din-Rail



High Quality Product You Can Trust.



คุณสมบัติพิเศษที่เหนือกว่า

- ผลิตกำลังไฟฟ้าได้สูงสุดแม้แสงแดดน้อย ด้วยระบบควบคุมพิเศษแบบ MPPT
- มีระบบป้องกันฟ้าผ่า, ป้องกันแรงดันเกิน, ป้องกันกระแสเกิน และมีระบบป้องกันกระแสไฟฟ้ตก เพื่อป้องกันตัวอินเวอร์เตอร์เสียหาย
- มีระบบพิเศษเพื่อป้องกันมอเตอร์เสียหายด้วยไฟฟ้าแบบ 100%
- มีระบบป้องกันอุณหภูมิสูงเกินเพื่อป้องกันตัวอินเวอร์เตอร์เสียหาย
- มีระบบเลือกปรับควบคุมเพื่อป้องกันผู้ใช้งาน และเพื่อป้องกันความเสียหายกับอุปกรณ์
- รับพลังงานได้ 2 ระบบ คือ ระบบโซลาร์เซลล์ (DC) และ ระบบไฟฟ้า Grid (AC) ไฟฟ้า
- สามารถเลือกใช้สองระบบระหว่าง ระบบโซลาร์เซลล์ (DC) หรือ ระบบไฟฟ้า Grid (AC) ไฟฟ้า
- เลือกใช้ระบบร่วมกัน(ใช้งานพร้อมกัน) ระบบโซลาร์เซลล์ (DC) และ ระบบไฟฟ้า Grid (AC) ไฟฟ้า ในเวลาเดียวกันเพื่อให้มอเตอร์ทำงานเต็มประสิทธิภาพและได้น้ำสม่ำเสมอคุ้มค่า
- เมื่อใช้ร่วมกัน โดยระบบจะเลือกใช้ระบบโซลาร์เซลล์ (DC) ก่อน หากพลังงานไม่พอจะเพิ่มระบบไฟฟ้า Grid (AC) ไฟฟ้าโดยอัตโนมัติ เพื่อให้มอเตอร์ทำงานเต็มประสิทธิภาพคือแรงไม่ตก
- มีระบบสตาร์ทมอเตอร์รอบต่ำเพื่อป้องกันไฟกระชากและไม่ทำให้อินเวอร์เตอร์เสียหาย
- มีระบบเปิดปิดตามแสงแดด และแบบตั้งเวลาได้เพื่อประหยัดเวลาทำงาน
- มีระบบป้องกันน้ำเข้าแบบมาตรฐาน IP65 สามารถกันน้ำฝนได้สบาย
- สามารถเก็บประวัติการทำงานของเครื่องได้ 8 ปี เพื่อนำมาดูประวัติการทำงานย้อนหลัง
- รองรับฟังก์ชันการเชื่อมต่อแบบหลายปีนเพื่อป้องกันการหยุดทำงานระบบเมื่อปีนมากกว่า 1 ตัว
- สามารถปรับความถี่ได้ 0Hz ถึง 50Hz หรือ 60Hz
- หน้าจอแสดงผลแบบ LCD ที่เหนือกว่า
- ออกแบบเพิ่ม รองรับสวิตช์อัตโนมัติสำหรับวัดระดับของเหลวหรือน้ำ
- สามารถใช้กับมอเตอร์หลายชนิด เช่น ปั๊มน้ำบาดาล, ปั๊มน้ำหยด, ปั๊มน้ำ, ปั๊มน้ำ, ปั๊มน้ำ
- ใช้ได้กับมอเตอร์ 1 หรือ 3 เฟส 220โวลต์ ขนาดแรงมอเตอร์ตั้งแต่ 1 ถึง 3 แรงม้า
- รับประกัน 2 ปีเต็ม

Solar Pump Inverter, DC/AC to AC

(อินเวอร์เตอร์ปั๊มน้ำใช้ไฟฟ้ากับโซลาร์เซลล์พร้อมกัน)

Technical Data	
Input Max. Power PV	5 kW
Input Rate Power PV	3.7 kW
Input Max. DC Voltage PV	450 Vdc, Max Current : 20Adc
Input Min. DC Voltage PV	150 Vdc
Input MPP DC Voltage PV	310 - 370 Vdc
Input AC Voltage Grid	220Vac - 240Vac 1PH
Input Rate AC Current Grid	35 A
Output Rate AC Current	17 A
Output Rate AC Power	3,700W
Output AC Voltage	0-220/240 Vac 1/3PH
Output Frequency	0 - 50 / 60 Hz
Adapting Motor Power	2.2 kW
Adapting Motor AC Voltage	220 - 260 Vac 1/3HP
MPPT Efficiency	99%
Conversion Efficiency	≥ 97%
Ambient Temperature	-20 ~ 60 °C
Cooling Method	natural air cooling
Display	LCD
Protection Grade	IP65

Dimension & Weight	
Product Dimension	25.7 × 41.6 × 15.8 cm
Packing Size	46.5 × 34.0 × 24.8 cm
Net Weight	8 kg
Gross Weight	9.2 kg

Standards	
IEC 62109-1:2010	
IEC 62109-2:2011	
IEC 61000-6-2:2016	
IEC 61000-6-4:2018	



Order Part Number as Below.

Part Number.	Descriptions
AA3700S	Single Phase/Three Phase, Solar pump inverter DC/AC to AC 450Vdc/20Adc/5Kw input, 200-240VAC/17A/3.7 Kw output.

Solar Cable



Feature

- Dual wall insulation, electron beam cross-linked
- Excellent resistance to UV, water, ozone, fluids, salt, general weathering
- Excellent resistance to abrasion
- Halogen free, flame retardant, low toxicity
- Excellent flexibility and stripping performance
- High current carrying capacity
- TUV and UL approved

Standards

- EN 50618 : 2014
- IEC 62930 : 2017
- EN 60288, CLASS 5
- DIN VDE 0295 CLASS 5
- TUV approvals
- RoHS compliant

Electrical Characteristic

Rate Voltage	0.6 / 1kVAC and 1.8kVDC
Nominal Voltage U ₀ /U	AC 1000/1000V, DC 1500/1500V
Max. DC Voltage	1800V (conductor-conductor, non-earth system, circuit not under load)
AC Test Voltage	6.5 KV
DC Test Voltage	15 KV
Min. Surface resistance of sheath	10 ⁹ Ω
Electrical tests	According EN50618 : 2014

Temperature

Max. Temperature at conductor	-40°C to + 120°C
Temperature Range	-40°C to + 90°C

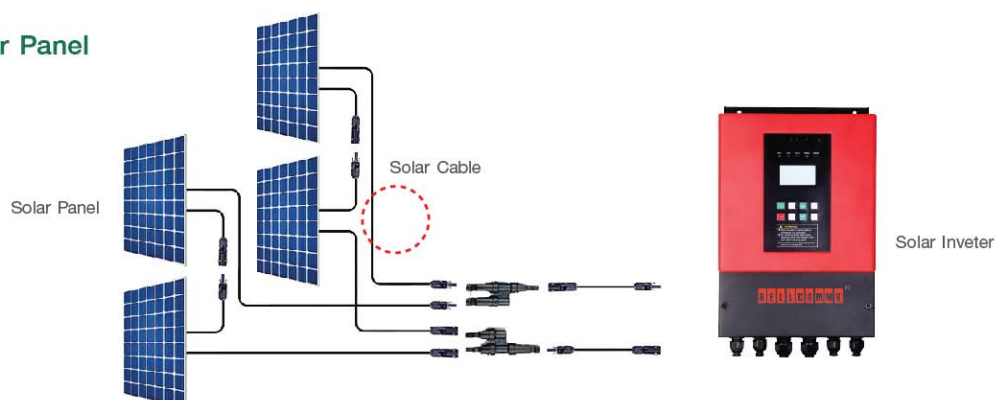
Cable Construction

Conductor Material	Fine wire stranded tinned copper according EN 60288 Class 5
Insulation Material	Halogen free, Copolymer Electron beam cross-linked polyethylene(XLPE)
Jacket Material	Halogen free, Copolymer Electron beam cross-linked polyethylene(XLPE) with FR-LSZH
Jacket Color	Red or Black

Technical Specifications

Size (mm ²)	Conductor Diameter (N/mm)	Insulation Thickness (mm)	Insulation Diameter (mm)	Jacket Thickness (mm)	Jacket Diameter (mm)	Conductor Resistance at 20°C (°Ω/km)	Insulation Resistance at 20°C (M'Ω/km)	Rated Current at 60°C (A)
2.5	50/0.25	0.80	3.65±0.2	0.80	5.80±0.3	≤8.21	≥690	41
4	56/0.30	0.80	4.20±0.2	0.80	6.05±0.3	≤4.85	≥580	55
6	84/0.30	0.80	4.90±0.2	0.80	6.50±0.3	≤3.10	≥500	70
10	84/0.4	0.80	5.75±0.2	0.80	8.66±0.3	≤1.95	≥420	98
16	126/0.4	0.80	7.55±0.2	0.80	10.10±0.3	≤1.24	≥340	132

Connection the Solar Panel to the Inverter



Order Part Number as Below.

Part Number.		Descriptions	Length	Package
Red Color	Black Color			
BC-5015	BC-5016	Solar Cable, (1.5/1.5KV DC), 1x2.5 mm ² , (Black or Red)	50/100/1000 m	Box./Roll.
BC-5007	BC-5008	Solar Cable, (1.5/1.5KV DC), 1x4 mm ² , (Black or Red)	50/100/500/1000m	Box./Roll.
BC-5009	BC-5010	Solar Cable, (1.5/1.5KV DC), 1x6 mm ² , (Black or Red)	50/100/500/1000 m	Box./Roll.
BC-5011	BC-5012	Solar Cable, (1.5/1.5KV DC), 1x10 mm ² , (Black or Red)	50/100/1000 m	Box./Roll.
BC-5013	BC-5014	Solar Cable, (1.5/1.5KV DC), 1x16 mm ² , (Black or Red)	50/100/1000 m	Box./Roll.

Solar Connector



BC-5001
MC4 Solar Connector

BC-5002
MC4 Solar Panel Connector

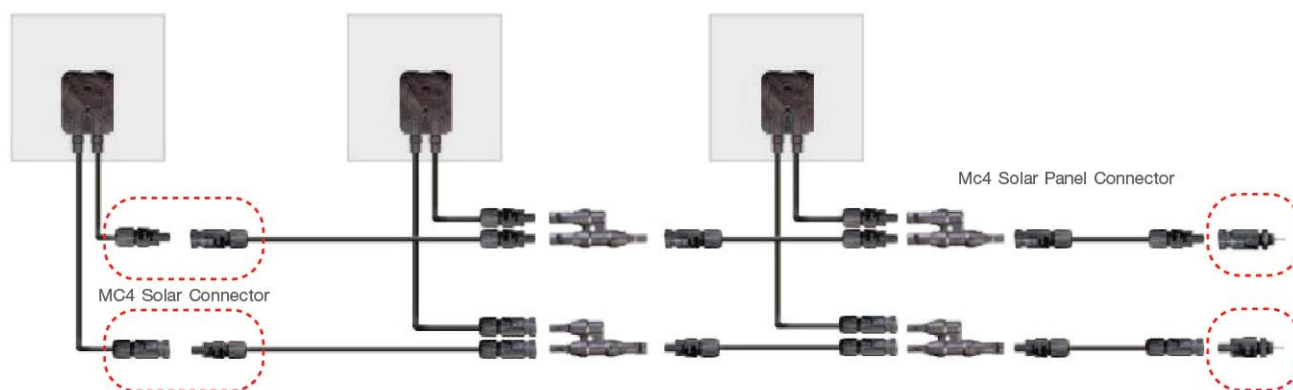
Feature

- Simple on-site processing.
- Accommodates PV cable with different insulation diameters.
- Mating safety provided by keyed housings.
- Multiple plugging and unplugging cycles.
- High current carrying capacity.
- TUV and UL approved.



Technical Parameter

Rated current	30A(2.5-6mm ²)
Rated voltage	1000v DC
Test voltage	6000V(50Hz,1min)
Overvoltage type/pollution degree	CAT II/2
Contact resistance of plug connector	1mΩ
Contact material	Copper, Tin-plated
Insulation material	PPO
Degree of protection	IP2X/IP67
Flame class	UL94-VO
Safety class	2
Suitable cable	OD 4.5-8.5(2.5-6.0 mm ²)
Insertion force/withdrawal force	≤50N/≥50N
Connecting system	Crimp connection
Temperature range	-40°C ~+ 125°C



Order Part Number as Below.

Part Number.	Descriptions
BC-5001	MC4 Solar Connector, 1 pairs
BC-5002	MC4 Solar Panel Connector, 1 pairs

Solar Connector



BC-5003
MC4 T Connector 2 to 1

BC-5004
MC4 T Connector 3 to 1

BC-5005
MC4 T Connector 4 to 1

Feature

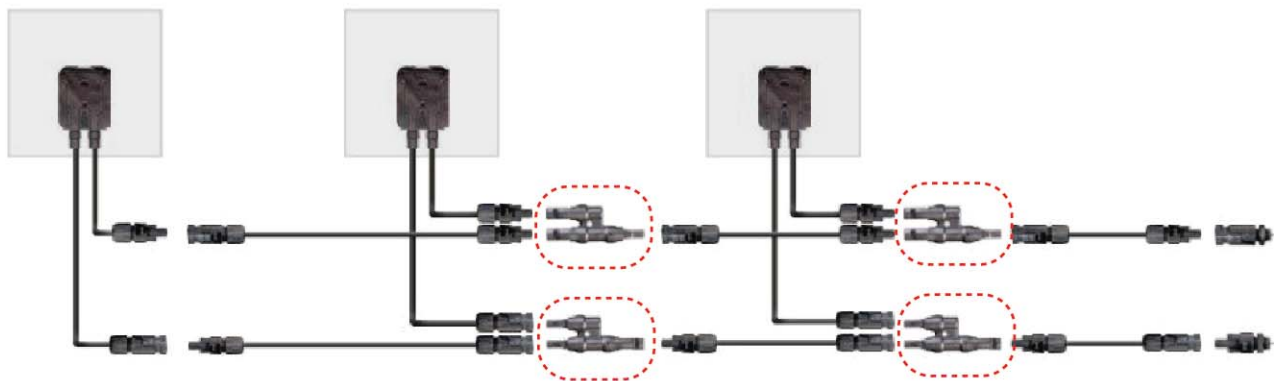
- Simple on-site processing.
- Accommodates PV cable with different insulation diameters.
- Mating safety provided by keyed housings.
- Multiple plugging and unplugging cycles.
- High current carrying capacity.
- TUV and UL approved.



IP67 -40°C +120°C

Technical Parameter

Rated voltage	40A
Rated current	1000V DC
Test voltage	6000v(50Hz, 1 min)
Over voltage Category/Pollution degree	CAT II/2
Contact resistance of plug connector	1mΩ
Contact material	copper, Tin-plated
Insulation material	PA/PO
Degree of protection	IP2*/IP67
Flame class	UL94-VO
Safety class	2
Insertion force	≤50N
withdrawal force	≥50N
Temperature range	-40°C ~+ 110°C



Order Part Number as Below.

Part Number.	Descriptions
BC-5003	MC4 T Solar Connector, 2 to 1, 1 pairs
BC-5004	MC4 T Solar Connector 3 to 1, 1 pairs
BC-5005	MC4 T Solar Connector 4 to 1, 1 pairs

Solar Branch Cable



BC-5006
MC4 Y Solar Branch Cable

Feature

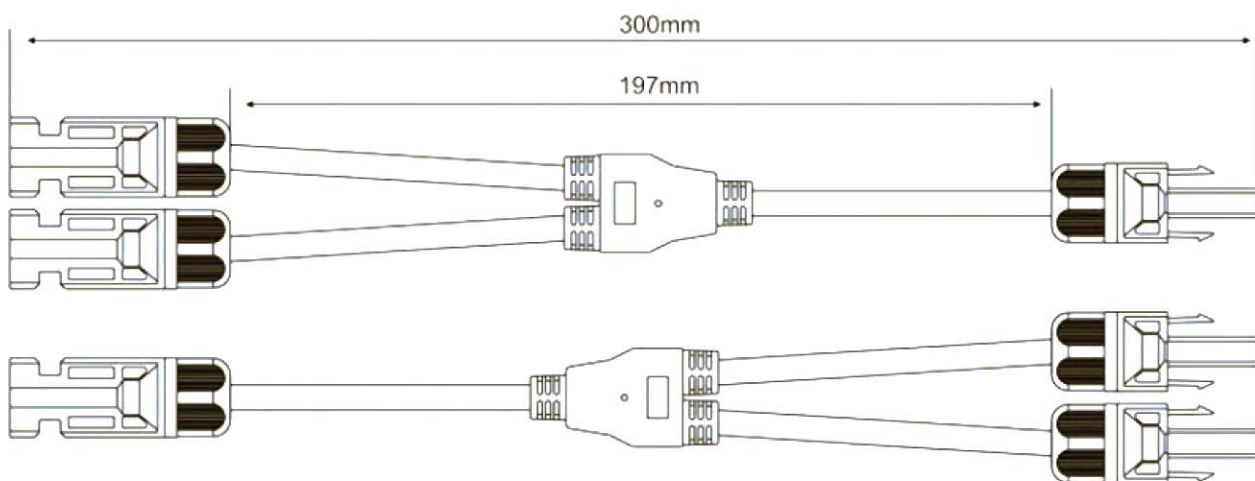
- Simple on-site processing.
- Accommodates PV cable with different insulation diameters.
- Mating safety provided by keyed housings.
- Multiple plugging and unplugging cycles.
- High current carrying capacity.
- TUV and UL approved.



IP67 -40°C +120°C

Technical Parameter

Rated voltage	30A
Rated current	1000V DC
Test voltage	6000v(50Hz, 1 min)
Over voltage Category/Pollution degree	CAT II/2
Contact resistance of plug connector	1mΩ
Contact material	copper, Tin-plated
Insulation material	PPO
Degree of protection	IP2*/IP67
Flame class	UL94-VO
Safety class	2
Insertion force	≤50N
withdrawal force	≥50N
Temperature range	-40°C ~+ 110°C



Order Part Number as Below.

Part Number.	Descriptions
BC-5006	MC4 Y Solar Branch Cable, 30cm. length, 1 pairs

WiFi Breaker

1P+N 50A, 2.4G WiFi



Feature

The WIFI disconnectors are used for:

- Control (opening and closing of circuits under load)
- Disconnection of on-load electrical circuits already protected against overloads and short-circuits

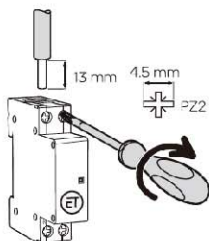


Main

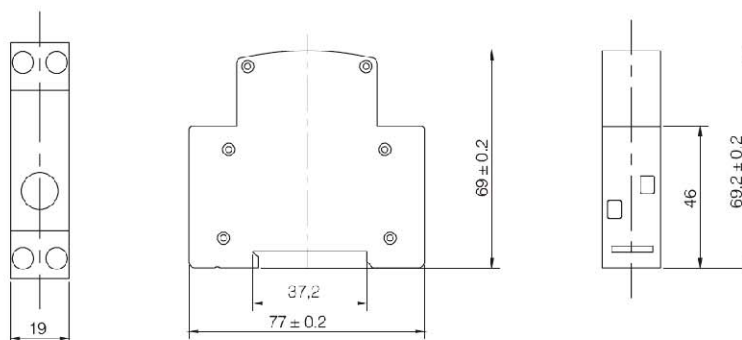
Product or component type	WiFi disconnectors
Poles description	1
Rating(Ie)	50A
Voltage rating (Ue)	1P, AC 230V
Width in 9-mm modules	2
Control Type	Remote Control
Connection	2.4G WIFI

Connection

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



Dimensions (mm)



Order Part Number as Below.

Part Number.	Descriptions
BC-W50A	1P+N 50A, 2.4G WIFI Breaker remote control

Residual Current Circuit Breaker with Over Current Protection (RCBO)

2P 32A 30mA 6KA Curve C, Electromagnetic type



Feature

- The sing-phase 002106 self-contained residual current device carries out complete protection of final circuits:
- Proagainst short-circuits and cable overloads
- Protection of persons against electric shock by direct contact (30 mA sensitivities).
- Protection of persons against electric shock by indirect contact (100 mA sensitivity) .
- Protection of equipment ageinst fiers set by leakage currents (100 mA sensitivity).
- Module width 35.9mm.



Main

Product or component type	Residual current with over current
Device application	Distribution
Poles discription	1P+N
Number of protected poles	2
Network type	AC
Rat residual operationg current (ma)	30
Rated frequency	50/60Hz
Curve code	C
Breaking capacity	6kA

Complementary

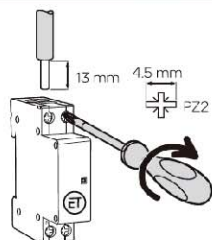
(Ue) rated operational voltage	230/240V AC
Control type	Toggle
Local signalling	ON/OFF indication
Mounting mode	Cilp-on
Mountiong support	DIN rail 35mm
Colour	Grey
Electro-mechanical endurance	≥20,000 cycles

Environment

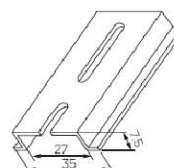
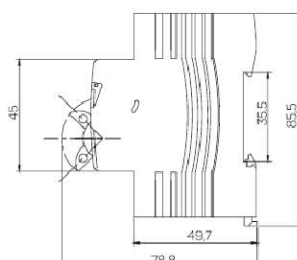
Standards	IEC 61009, EN61009, AS/NZS 61009-1
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529 IP20 conforming to IEC 60529
Operating altitude	2000 m
Ambient temperature for operation	-5°C to + 60°C
Ambient temperature for storage	-40°C to + 85°C

Connection

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



Dimensions (mm)



Order Part Number as Below.

Part Number.	Descriptions
002106	2P 32A 30mA 6KA Curve C, Electromagnetic type

Residual Current Circuit Breaker with Over Current Protection (RCBO)

1P 25A 30mA 6KA Curve C, Electronic type



Feature

- The sing-phase 002206 self-contained residual current device carries out complete protection of final circuits:
- Proagainst short-circuits and cable overloads
- Protection of persons against electric shock by direct contact (30 mA sensitivities).
- Protection of persons against electric shock by indirect contact (100 mA sensitivity).
- Protection of equipment ageinst fiers set by leakage currents (100 mA sensitivity).
- Module width 18mm.



Main

Product or component type	Residual current with over current
Device application	Distribution
Poles discription	1P+N
Number of protected poles	2
Network type	AC
Rat residual operationg current (ma)	30
Rated frequency	50/60Hz
Curve code	C
Breaking capacity	6kA

Complementary

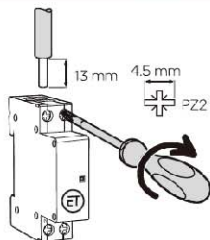
(Ue) rated operational voltage	230/240V AC
Control type	Toggle
Local signalling	ON/OFF indication
Mounting mode	Cilp-on
Mounting support	DIN rail 35mm
Colour	Grey
Electro-mechanical endurance	≥20,000 cycles

Environment

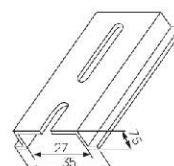
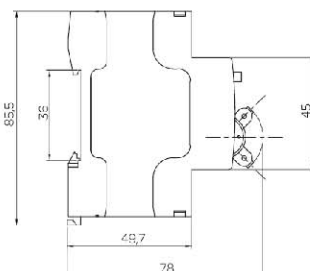
Standards	IEC 61009, EN61009, AS/NZS 61009-1
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529 IP20 conforming to IEC 60529
Operating altitude	2000 m
Ambient temperature for operation	-5°C to + 60°C
Ambient temperature for storage	-40°C to + 85°C

Connection

Rating	Tightening torque	Copper cables Rigid	Flexible or ferrule
25 A	2.0 N.m	1 to 25 mm ²	1 to 16 mm ²



Dimensions (mm)



Order Part Number as Below.

Part Number.	Descriptions
002206	1P 25A 30mA 6KA Curve C, Electronic type

Contactor

2P 63A 30mA 6KA Curve C, Electromagnetic type



Feature

- Contactors are available in two versions:
- Contactors without manually-operated
- Contactors With manually-operated
- The beradth of the contactor range satisfies most application cases.
- Contactors can be used to remote control applications in alternative networks:
- Light, 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	Contactor
Device application	Remote contol
Poles discription	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 (4kV for 12/24/48V AC)

Complementary

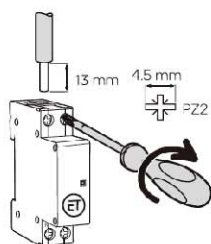
Control type	Toggle
Mounting mode	Cilp-on
Mountiong support	DIN rail 35mm
Colour	Grey
Electrical	100,000 cycles

Environment

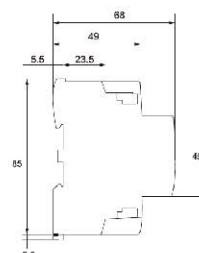
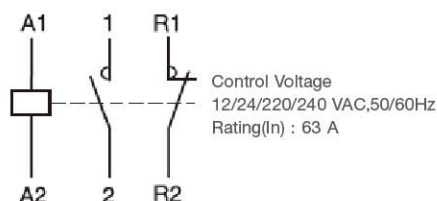
Standards	EC 61095 , EN61095
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529 IP20 conforming to IEC 60529
Ambient temperature for operation	-5°C to + 60°C
Ambient temperature for storage	-40°C to + 70°C
ELSV compliance (Extra Low Safety Voltage) for 12/24/48V AC versions	
The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

Connection

Rating	Lenght tripping	Circuit	Tightening torque	Copper cables Rigid	Flexible or ferrule
63 A	14 mm.	Power	3.5 N.m	6.0 to 25 mm ² 6.0 to 35 mm ²	6.0 to 16 mm ² 6.0 to 35 mm ²



Dimensions (mm)



Order Part Number as Below.

Part Number.	Descriptions
BC-D63A	63A 2P 18mm Width 1NO + 1NC 220V Contactor

Contactor

25A 2P 18mm Width 1NO + 1NC 220V



Feature

- Contactors are available in two versions:
- Contactors without manually-operated
- Contactors With manually-operated
- The breadth of the contactor range satisfies most application cases.
- Contactors can be used to remote control applications in alternative networks:
- Light, 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 discription	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 (4kV for 12/24/48V AC)

Complementary

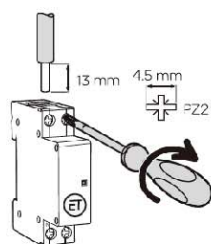
Control type	Toggle
Mounting mode	Cilp-on
Mountiong support	DIN rail 35mm
Colour	Grey
Electrical	100,000 cycles

Environment

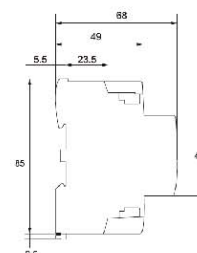
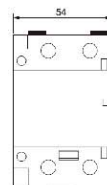
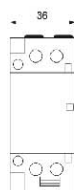
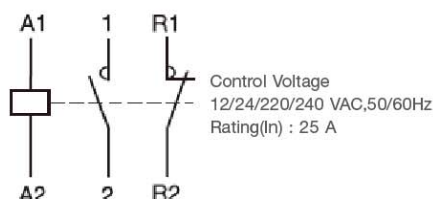
Standards	EC 61095, EN61095
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529 IP20 conforming to IEC 60529
Ambient temperature for operation	-5°C to + 60°C
Ambient temperature for storage	-40°C to + 70°C
ELSV compliance (Extra Low Safety Voltage) for 12/24/48V AC versions	
The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

Connection

Rating	Lenght tripping	Circuit	Tightening torque	Copper cables Rigid	Flexible or ferrule
25 A	9 mm.	Control	0.8 N.m	1.5 to 2.5 mm ² 2.0 to 1.5 mm ²	1.5 to 2.5 mm ² 2.0 to 2.5 mm ²



Dimensions (mm)



Order Part Number as Below.

Part Number.	Descriptions
BC-D25A	25A 2P 18mm Width 1NO + 1NC 220V Contactor

Contactor

25A 2P 18mm Width 1NO + 1NC 220V



Feature

- Contactors are available in two versions:
- Contactors without manually-operated
- Contactors With manually-operated
- The breadth of the contactor range satisfies most application cases.
- Contactors can be used to remote control applications in alternative networks:
- Light, heating, ventilation, roller blinds, sanitary hot water, card insersion 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 (4kV for 12/24/48V AC)

Complementary

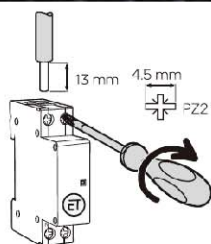
Control type	Toggle
Mounting mode	Cilp-on
Mounting support	DIN rail 35mm
Colour	Grey
Electrical	100,000 cycles

Environment

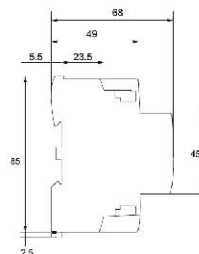
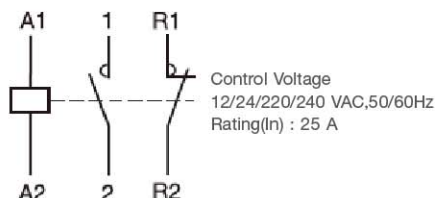
Standards	EC 61095, EN61095
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Dimensions (mm)



Order Part Number as Below.

Part Number.	Descriptions
BC-D25A	25A 2P 18mm Width 1NO + 1NC 220V Contactor



บริษัท ก้าวเข้าสู่อีที 23 โทร 02-508-0977 (อัตโนมัติ 20 คู่สาย) WWW.NCSNETWORK.COM