FGS

Future Green Smart



FGS Electrical Solutions

2026 Australian Product Catalogue

Reliable Electrical Protection for Australia Certified Safety. Sustainable Performance.

About FGS

Your Trusted Partner in Electrical Safety

FGS is a 100% Australian-owned brand specializing in high-quality power products and electrical equipment. As a forward-looking technology company, FGS is dedicated to delivering comprehensive electrical and automation solutions across the full spectrum of power distribution. Our expertise extends from low-voltage products and industrial control systems to future-ready medium- and high-voltage solutions, enabling us to support a wide range of applications in residential, commercial, industrial, and infrastructure sectors.

Driven by innovation, safety, and sustainability, we design and manufacture reliable circuit protection devices, intelligent distribution equipment, automation controllers, and smart energy management systems that meet the evolving needs of modern power networks. Our integrated approach ensures seamless performance, enhanced energy efficiency, and dependable operation—from the smallest installation to large-scale industrial facilities.

Guided by our vision to lead Australia's transition toward a smarter and greener electrical future, FGS is committed to advancing the transformation of the industry. Through continuous technological innovation, environmentally responsible design, and uncompromising quality standards, we empower businesses, communities, and industries to build a cleaner, safer, and more connected energy ecosystem for generations to come.

Our Commitment to Australia:

Safety First: All products are rigorously tested and fully comply with AS/NZS standards.

Energy Efficiency: Our solutions are designed to minimise energy waste, contributing to a greener environment.

Durability: Built to withstand the demanding Australian conditions, ensuring long service life.



Certified Quality, Guaranteed Peace of Mind.

Contents

- RCBO Series

  (Residual Current Circuit Breakers with Overcurrent Protection)

- MCB Series

  (Miniature Circuit Breakers)

- MCCB Series

  (Moulded Case Circuit Breakers)

- Weatherproof Switchboard

- Changeover Switch

- Modular Contactor

- Distribution Board

- Temporary Power Board

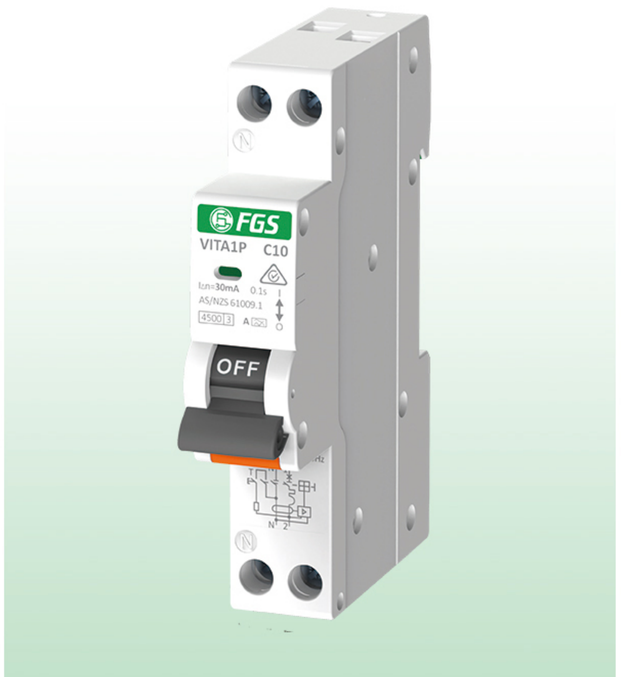
- Emergency Light Test Kit

- Application Scenarios

- Contact & Support

RCBO SERIES
ALL-IN-ONE PROTECTION





VITA1P

AS/NZS 61009.1

Applications



Approval / Marking

RoHS

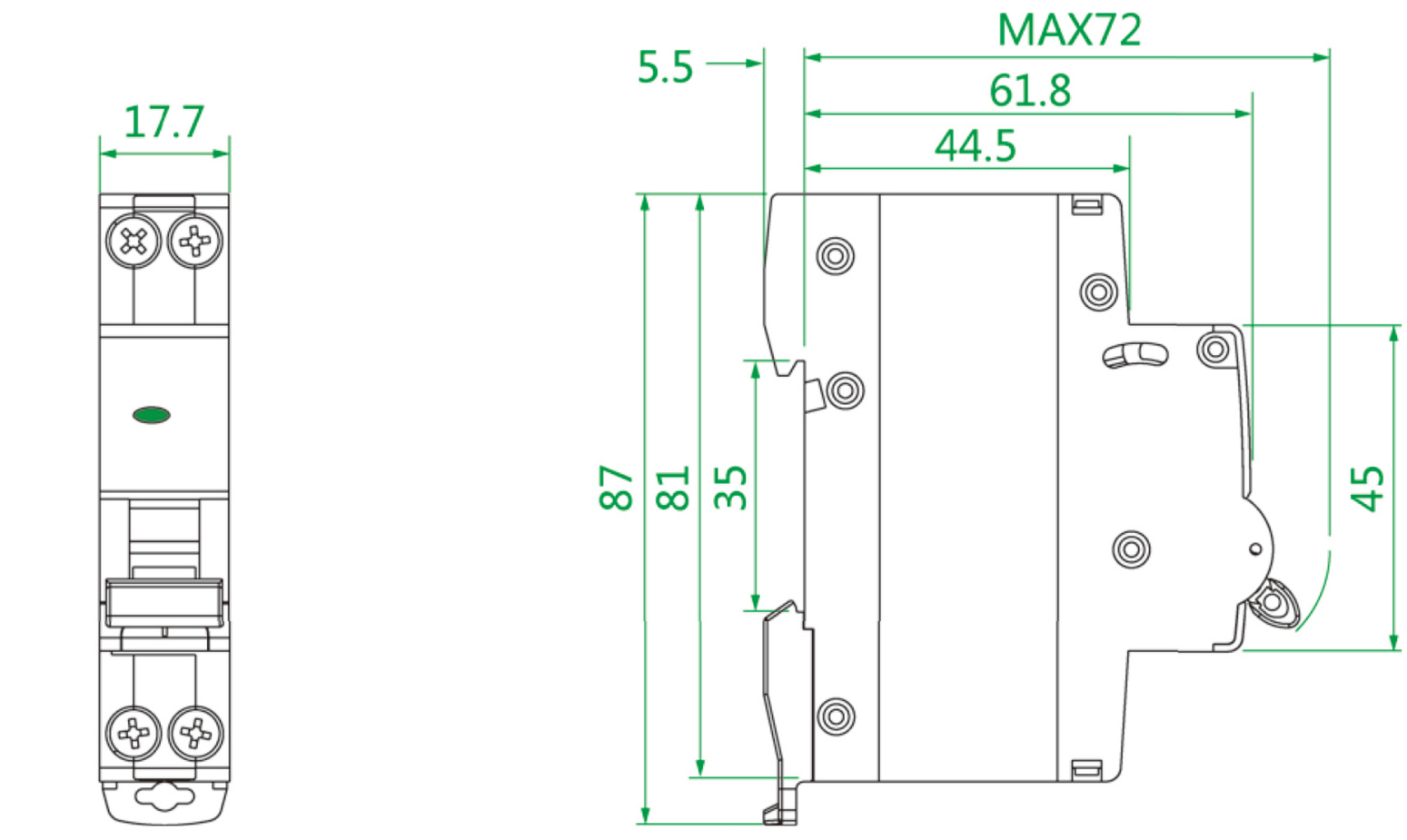
Construction and Feature

- VITA1P/VITA1P6 residual current circuit breaker are based on combination of residual current device on the amplified signal of electronic.
- Components and circuit breaker with thermal overload release and magnetic short circuit current release.
- They are common in domestic, commercial and industrial application.

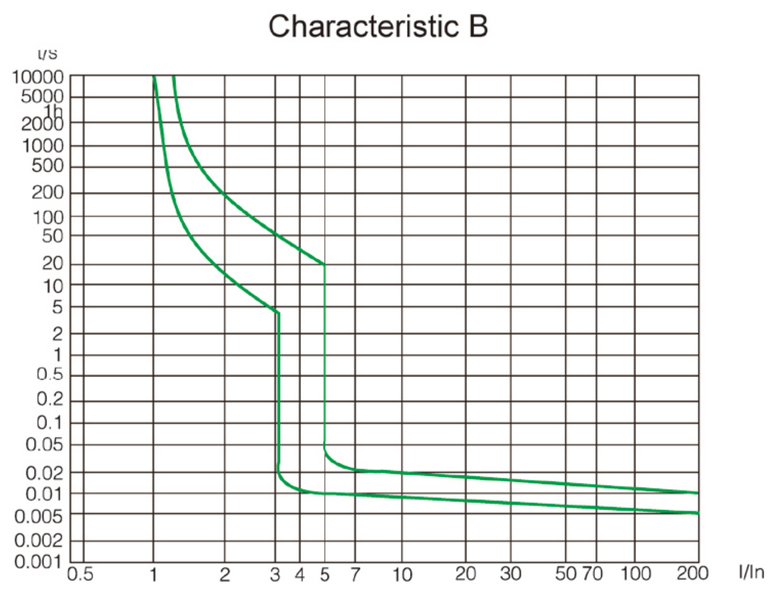
Technical Data

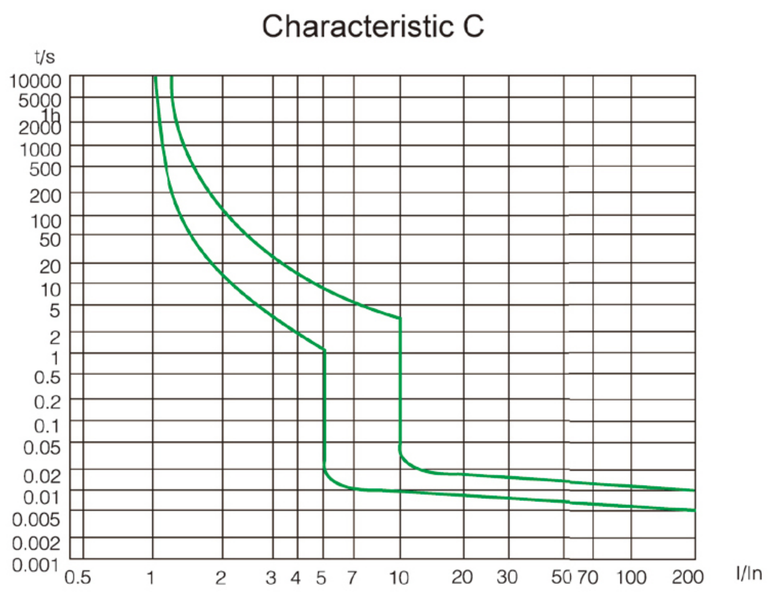
Electrical Features			
Standard			AS/NZS 61009.1
Rated Current (I_n)		A	6, 10, 13, 16, 20, 25, 32
Rated Operational Voltage (U_e)		V	230/400 AC
Number of Poles			1P+N
Rated Breaking Capacity	Ultimate (I_{cn})	kA	4.5
	Service (I_{cs})	kA	4.5
Rated Residual Current ($I_{\triangle n}$)		mA	30, 100, 300
Residual current protection type			Electronic
Break Time Under ($I_{\triangle n}$)		s	⩽ 0.1s
Residual Tripping Characteristics			A
Rated Residual Making and Breaking Capacity ($I_{\triangle m}$)		A	4500
Rated Frequency		Hz	50/60
Tripping Characteristics (Trip Curve)			B, C
Energy Limiting Class			3
Electrical Endurance		Cycles	4000
Mechanical Endurance		Cycles	10000
Rated Insulation Voltage (U_i)		V	400 AC
Rated Impulse Withstand Voltage (U_{imp})		kV	4
Dielectric Test Voltage		kV	2.5
Time characteristic of RCD			Undelayed type
Installation Parameters			
IP Degree of Protection			IP20, IP40 (when fitted)
Operating Ambient Temperature		°C	-25~+70
Cable Termination		mm^2	1~10
Tightening Torque		N.m	2.5
Terminal Connection Type			Cable
Mounting			On DIN rail EN 60715 (35mm) by means of fast clip device
Connection			From top and bottom
Pollution Degree			2
Reference Temperature for Thermal Setting		°C	30
Altitude		m	⩽ 2000
Relative Humidity			⩽ 95%

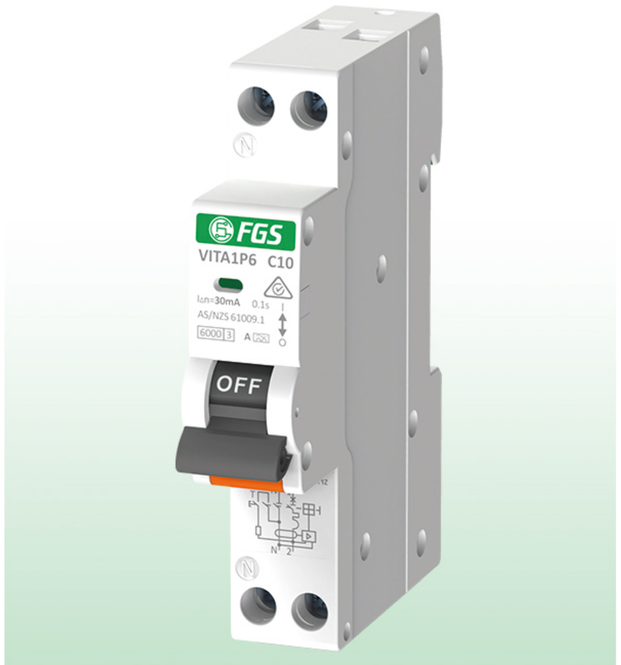
Dimensions (mm)



Tripping Characteristics







VITA1P6

AS/NZS 61009.1

Applications



Approval / Marking

RoHS

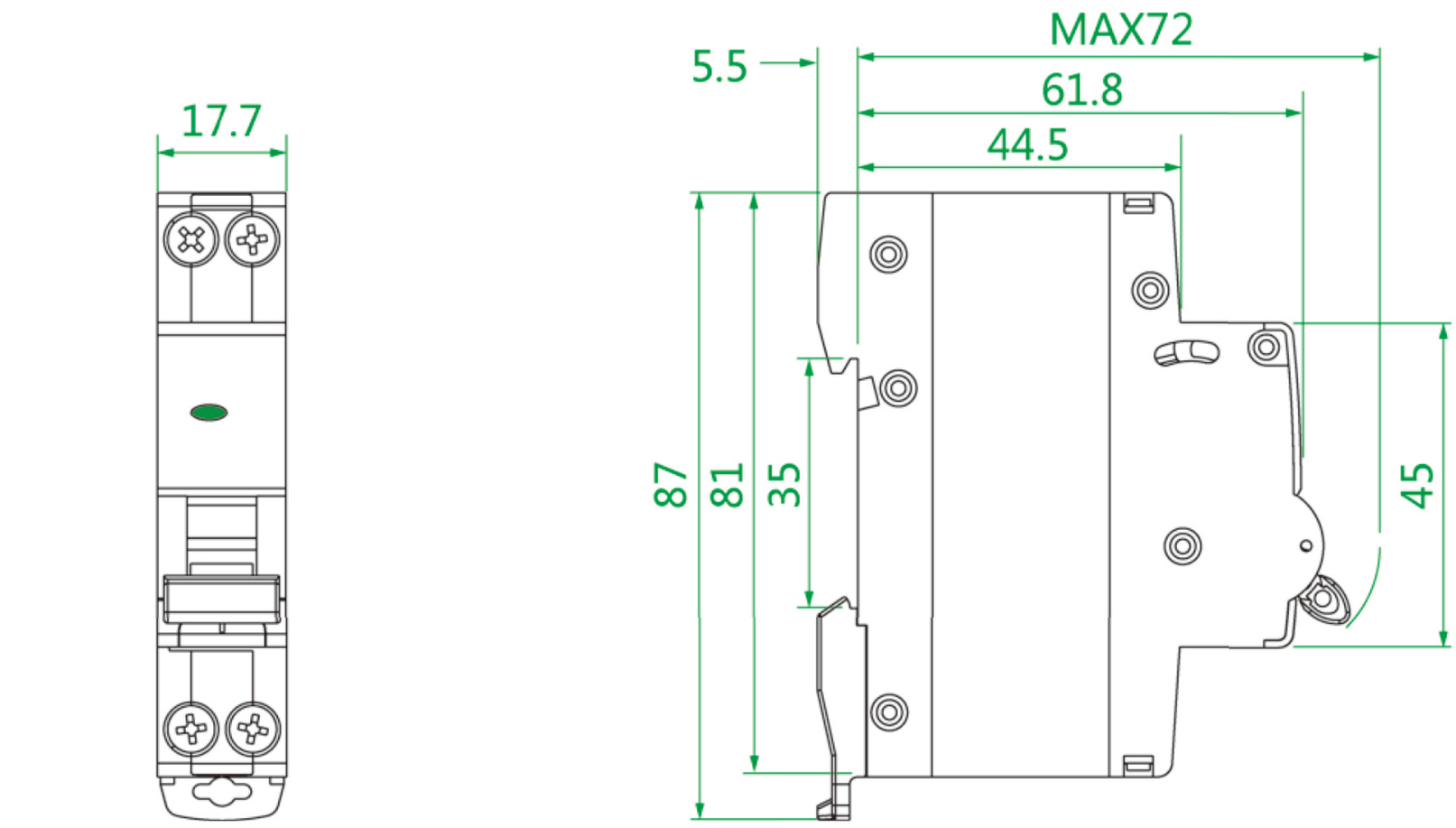
Construction and Feature

- VITA1P/VITA1P6 residual current circuit breaker are based on combination of residual current device on the amplified signal of electronic.
- Components and circuit breaker with thermal overload release and magnetic short circuit current release.
- They are common in domestic, commercial and industrial application.

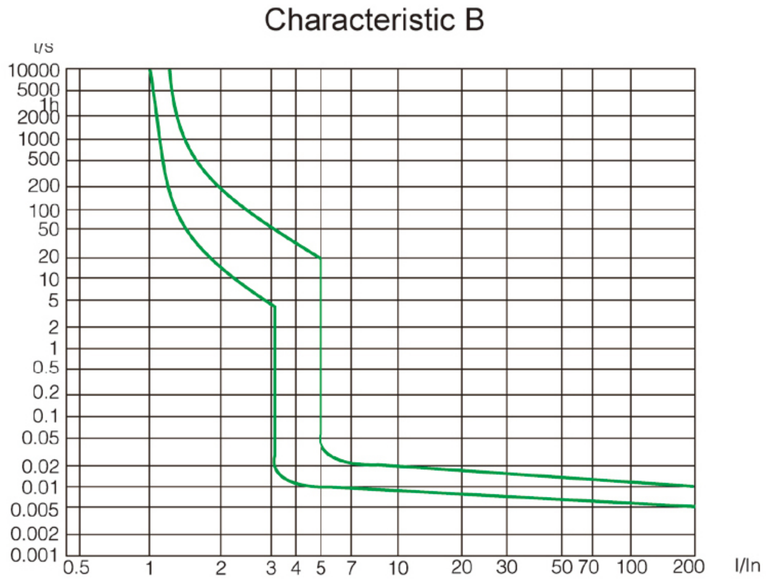
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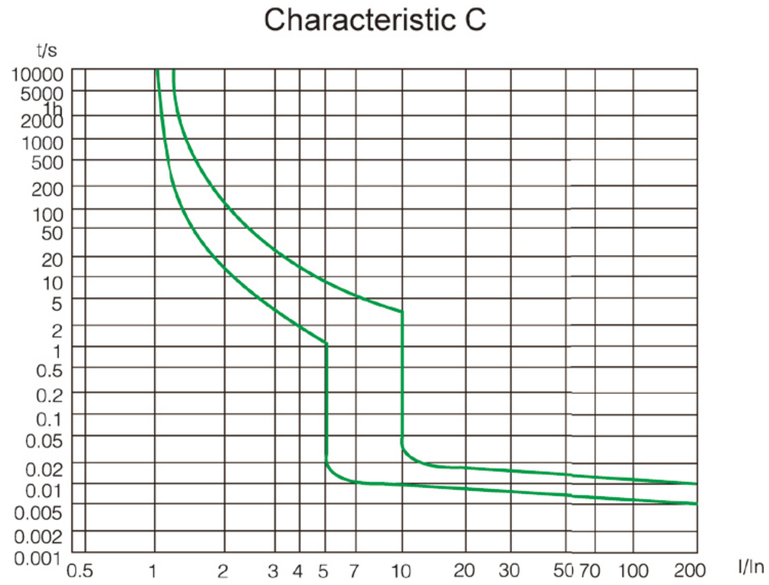
Electrical Features			
Standard			AS/NZS 61009.1
Rated Current (I_n)		A	6, 10, 13, 16, 20, 25, 32
Rated Operational Voltage (U_e)		V	230/400 AC
Number of Poles			1P+N
Rated Breaking Capacity	Ultimate (I_{cn})	kA	6
	Service (I_{cs})	kA	6
Rated Residual Current ($I_{\triangle n}$)		mA	30, 100, 300
Residual current protection type			Electronic
Break Time Under ($I_{\triangle n}$)		s	⩽ 0.1s
Residual Tripping Characteristics			A
Rated Residual Making and Breaking Capacity ($I_{\triangle m}$)		A	4500
Rated Frequency		Hz	50/60
Tripping Characteristics (Trip Curve)			B, C
Energy Limiting Class			3
Electrical Endurance		Cycles	4000
Mechanical Endurance		Cycles	10000
Rated Insulation Voltage (U_i)		V	400 AC
Rated Impulse Withstand Voltage (U_{imp})		kV	4
Dielectric Test Voltage		kV	2.5
Time characteristic of RCD			Undelayed type
Installation Parameters			
IP Degree of Protection			IP20, IP40 (when fitted)
Operating Ambient Temperature		°C	-25~+70
Cable Termination		mm²	1~10
Tightening Torque		N.m	2.5
Terminal Connection Type			Cable
Mounting			On DIN rail EN 60715 (35mm) by means of fast clip device
Connection			From top and bottom
Pollution Degree			2
Reference Temperature for Thermal Setting		°C	30
Altitude		m	⩽ 2000
Relative Humidity			⩽ 95%

Dimensions (mm)



Tripping Characteristics







VITA1PT

AS/NZS 61009.1

Applications

Approval / Marking

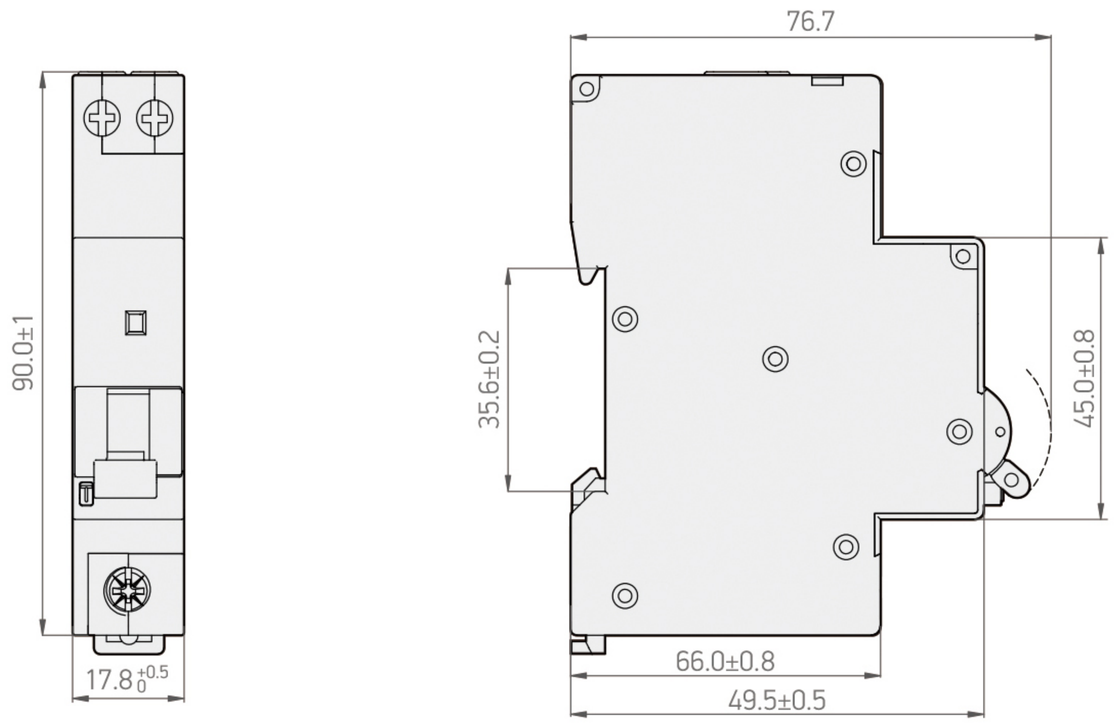
Construction and Feature

- Combined protection against overcurrent (overload and short circuit) and protection against earth leakage currents.
- Help sensing faults and trip the circuit ensuring complete protection of the people and the connected equipment.
- Wide choice of product codes to cover main customer needs.
- Time saving in wiring operation and easy.
- Trouble shooting on the network and reduced.
- Downtime for maintenance.

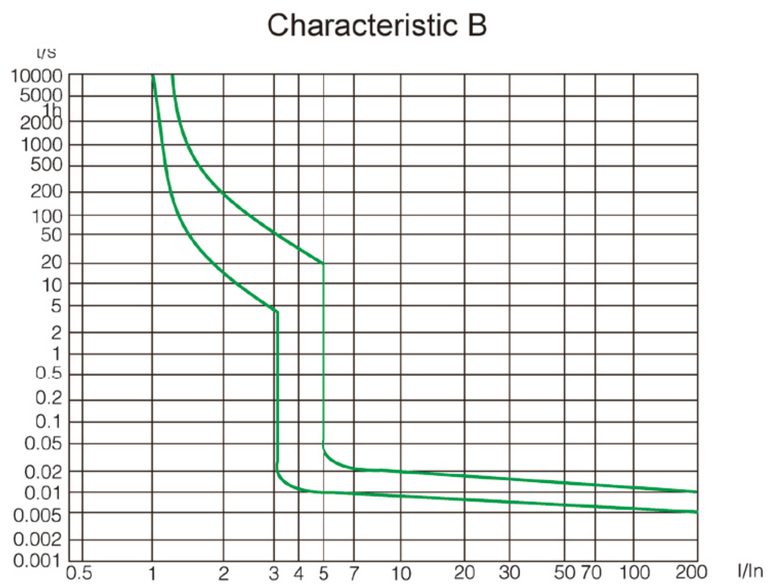
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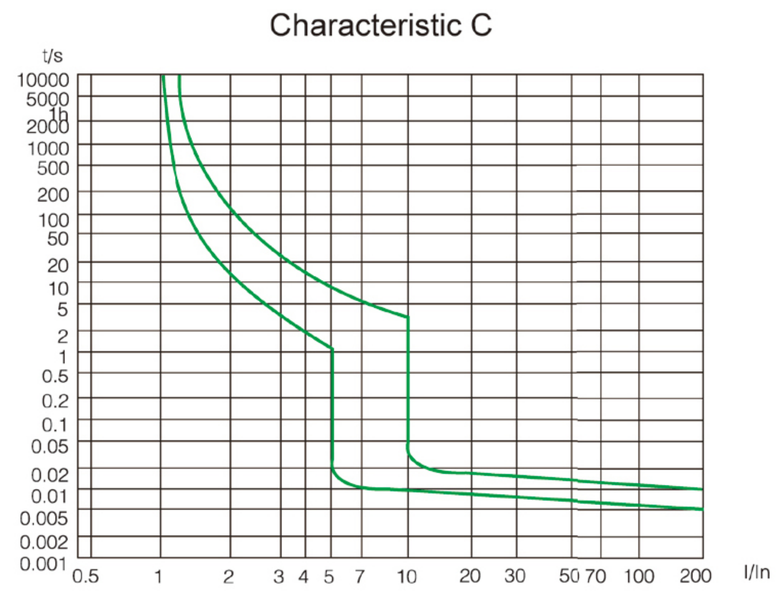
Standard			AS/NZS 61009.1
Rated Current (I_n)		A	6, 10, 13, 16, 20, 25, 32, 40
Rated Operational Voltage (U_e)		V	240
Number of Poles			1P+N
Rated Breaking Capacity	Ultimate (I_{cn})	kA	10 (In=6-25A), 6 (In=32,40A)
	Service (I_{cs})	kA	7.5 (In=6-25A), 6 (In=32,40A)
Rated Residual Current ($I_{\triangle n}$)		mA	10, 30, 100, 300
Residual Tripping Characteristics			A
Rated Residual Making and Breaking Capacity ($I_{\triangle m}$)		A	3000
Rated Frequency		Hz	50/60
IP Degree of Protection			IP20
Tripping Characteristics			B, C
Energy Limiting Class			3
Electrical Endurance		Cycles	4000
Mechanical Endurance		Cycles	10000
Rated Insulation Voltage (U_i)		V	400
Rated Impulse Withstand Voltage (U_{imp})		kV	4
Cable Termination		mm^2	25/16
Tightening Torque		N.m	2.0/1.2
Terminal			Pillar Type
Mounting			On DIN rail EN 60715 (35mm) by means of fast clip device
Connection			From bottom

Dimensions (mm)



Tripping Characteristics







VITA4N

AS/NZS 61009.1

Applications



Approval / Marking

RoHS

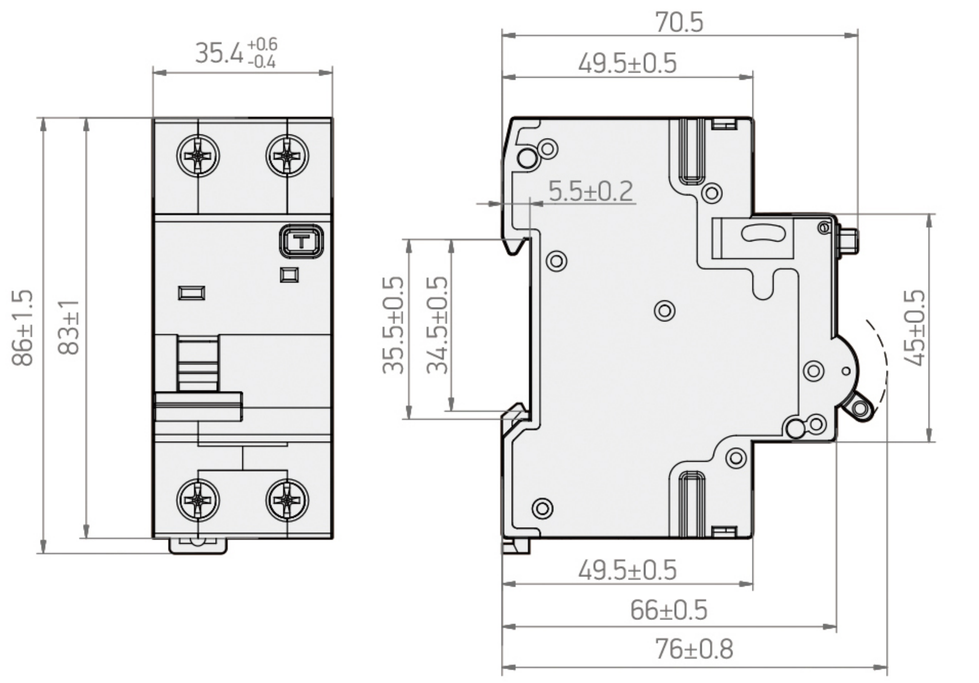
Construction and Feature

- Made from the highest grade components.
- Combined with RCCB/MCB in a compact design for personnel, fire and line protection.
- This range of electromagnetic residual current devices with over current protection designed to comply with international standard.
- Reliability in applications where the protection against earth leakage with overload & short circuit required for both active & neutral conductors.
- 10kA rated breaking capacity makes the perfect choice to perform in an industrial or commercial application.

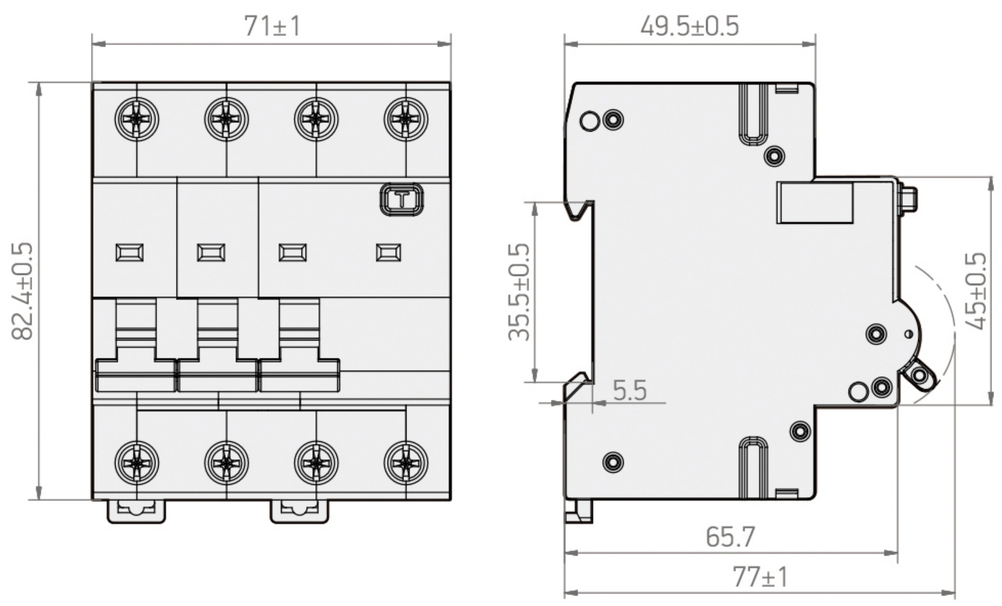
Technical Data

Standard			AS/NZS 61009.1
Rated Current (I_n)		A	6, 10, 13, 16, 20, 25, 32, 40
Rated Operational Voltage (U_e)		V	400/415
Number of Poles			3P+N
Rated Breaking Capacity	Ultimate (I_{cn})	kA	10
	Service (I_{cs})	kA	7.5
Rated Residual Current ($I_{\triangle n}$)		mA	30, 100, 300
Break Time Under ($I_{\triangle n}$)		s	⩽ 0.1s
Residual Tripping Characteristics			A
Rated Residual Making and Breaking Capacity ($I_{\triangle m}$)		A	4500
Rated Frequency		Hz	50/60
IP Degree of Protection			IP20
Tripping Characteristics (Trip Curve)			B, C, D
Energy Limiting Class			3
Electrical Endurance		Cycles	4000
Mechanical Endurance		Cycles	10000
Rated Insulation Voltage (U_i)		V	500
Rated Impulse Withstand Voltage (U_{imp})		kV	4
Dielectric Test Voltage		kV	2
Cable Termination		mm^2	25
Tightening Torque		N.m	2.5
Terminal			Pillar Type
Mounting			On DIN rail EN 60715 (35mm) by means of fast clip device
Connection			From top and bottom

Dimensions (mm)



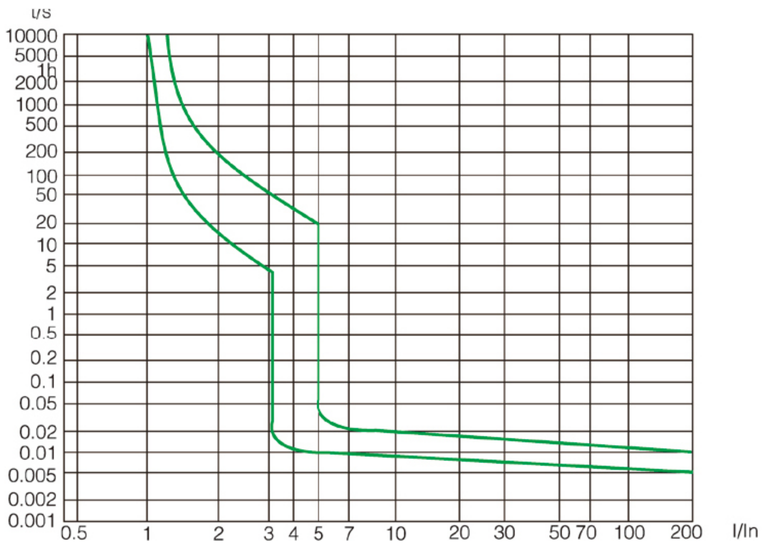
1P+N



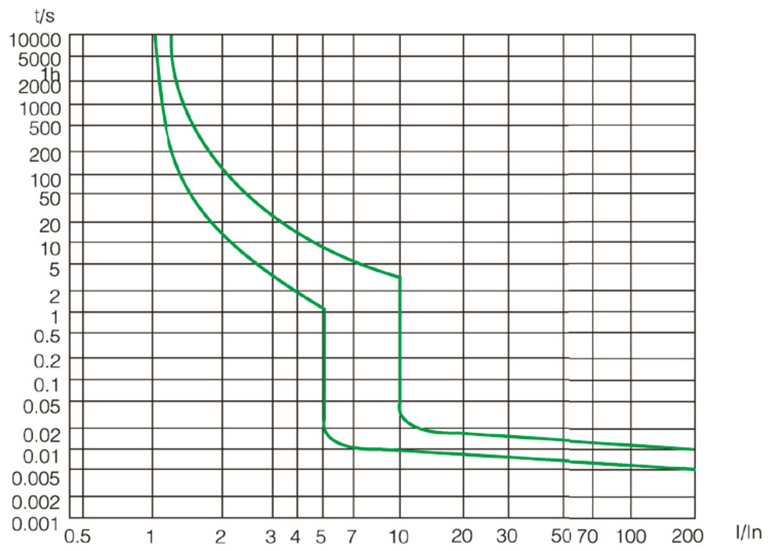
3P+N

Tripping Characteristics

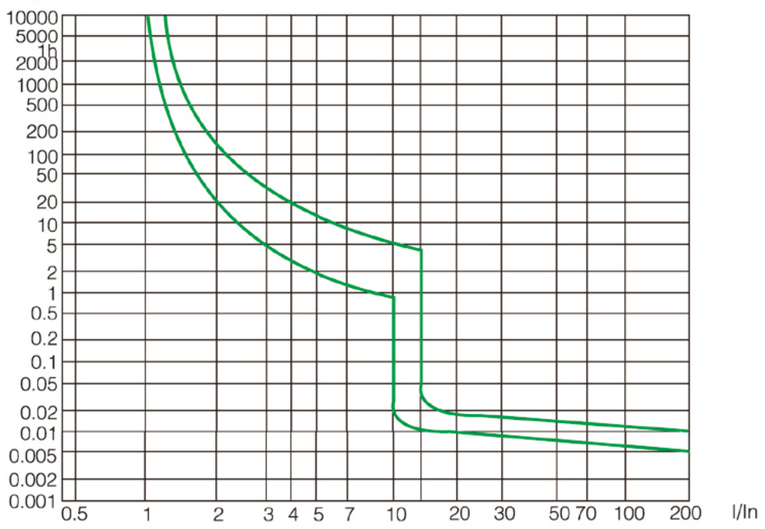
Characteristic B



Characteristic C



Characteristic D





VITA4N6

AS/NZS 61009.1

Applications



Approval / Marking

CE CB RoHS

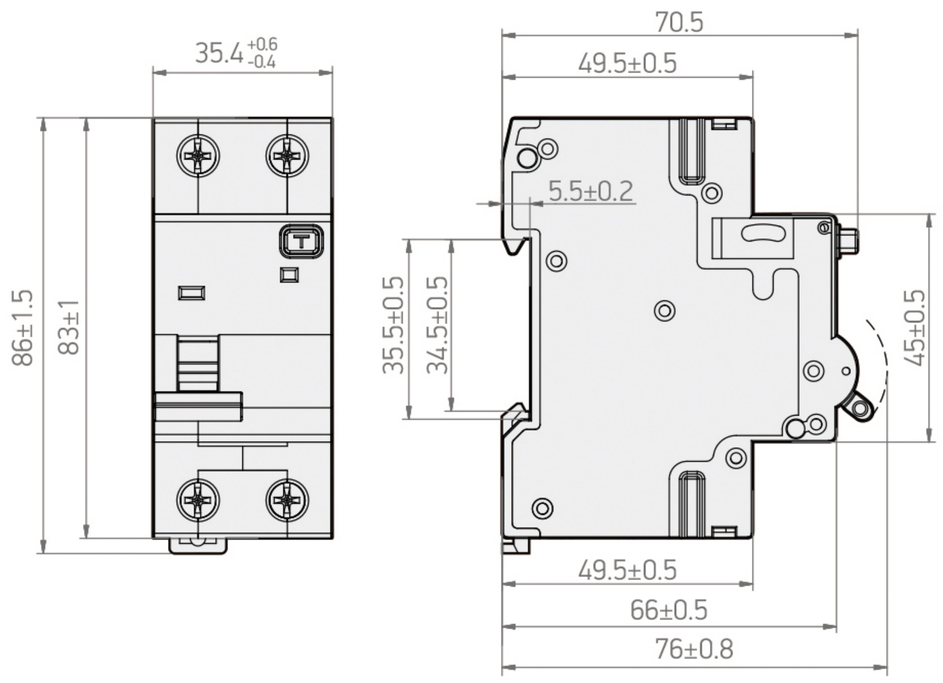
Construction and Feature

- VITA4N6 residual current circuit breaker are based on combination of residual current device with permanent magnet principle and.
- Circuit breaker with thermal overload release and magnetic short circuit current release. It brings the advantage of voltage independent.
- Function of the residual current device.They are common in domestic, commercial and industrial application.

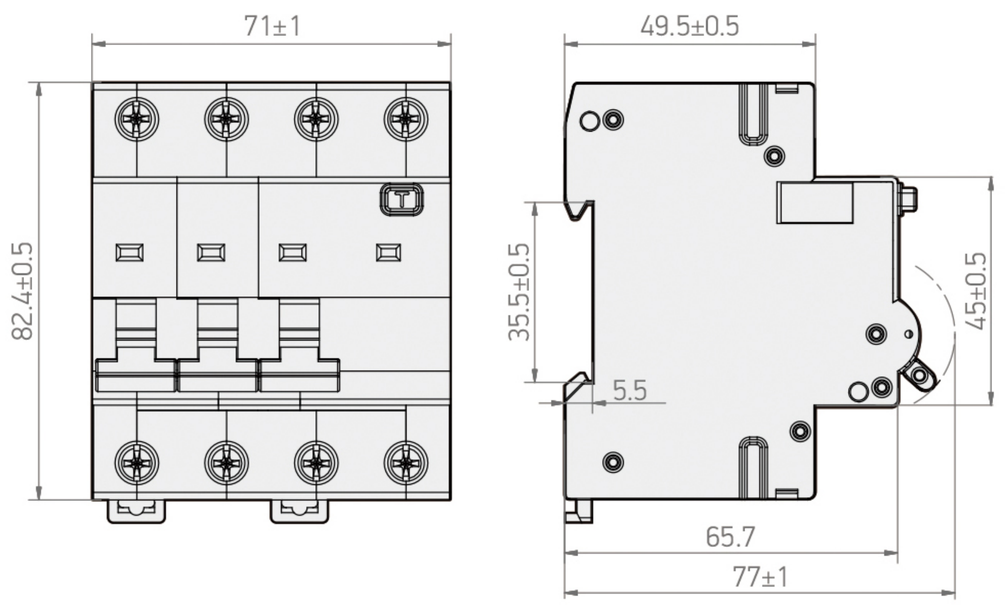
Technical Data

Electrical Features			
Standard			AS/NZS 61009.1
Rated Current (I_n)		A	6, 10, 13, 16, 20, 25, 32, 40
Rated Operational Voltage (U_e)		V	240/415 AC
Number of Poles			3P+N
Rated Breaking Capacity	Ultimate (I_{cn})	kA	6
	Service (I_{cs})	kA	6
Rated Residual Current ($I_{\triangle n}$)		mA	30, 100, 300
Residual Current Protection Type			Electromagnetic
Break Time Under ($I_{\triangle n}$)		s	⩽ 0.1s
Residual Tripping Characteristics			A
Rated Residual Making and Breaking Capacity ($I_{\triangle m}$)		A	4500
Rated Frequency		Hz	50/60
Tripping Characteristics (Trip Curve)			B, C
Energy Limiting Class			3
Electrical Endurance		Cycles	4000
Mechanical Endurance		Cycles	10000
Rated Insulation Voltage (U_i)		V	400 AC
Rated Impulse Withstand Voltage (U_{imp})		kV	4
Dielectric Test Voltage		kV	2.5
Time Characteristic of RCD			Undelayed type
Line Voltage Connection			Arbitrary above or below
Installation Parameters			
IP Degree of Protection			IP20, IP40 (when fitted)
Operating Ambient Temperature		°C	-25~+70
Cable Termination		mm^2	1~25
Tightening Torque		N.m	2.5
Terminal Connection Type			Cable/Busbar
Mounting			On DIN rail EN 60715 (35mm) by means of fast clip device
Connection			From top and bottom
Pollution Degree			2
Reference Temperature for Thermal Setting		°C	30
Altitude		m	⩽ 2000
Relative Humidity			⩽ 95%

Dimensions (mm)

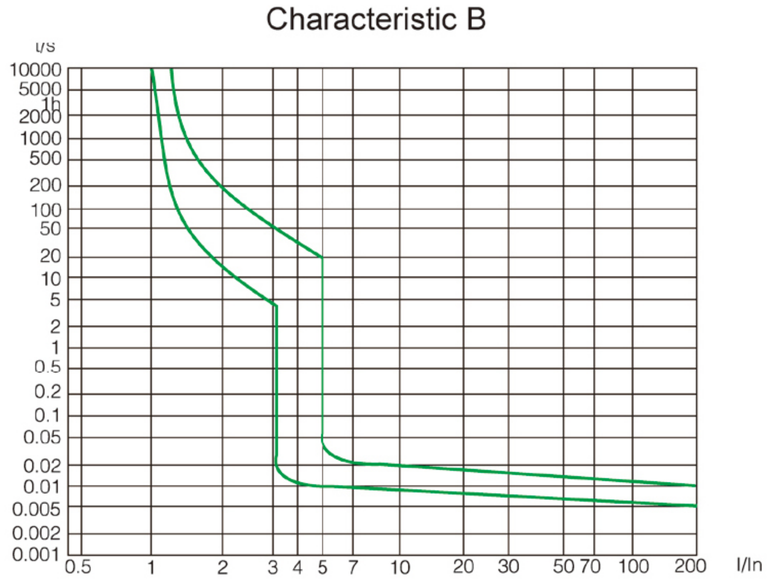


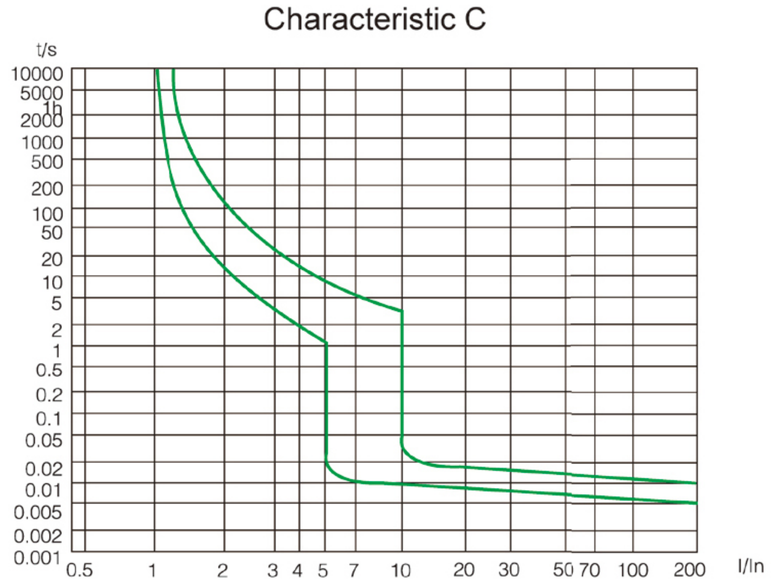
1P+N



3P+N

Tripping Characteristics







VITA3PT

AS/NZS 61009.1

Applications

Approval / Marking

RoHS

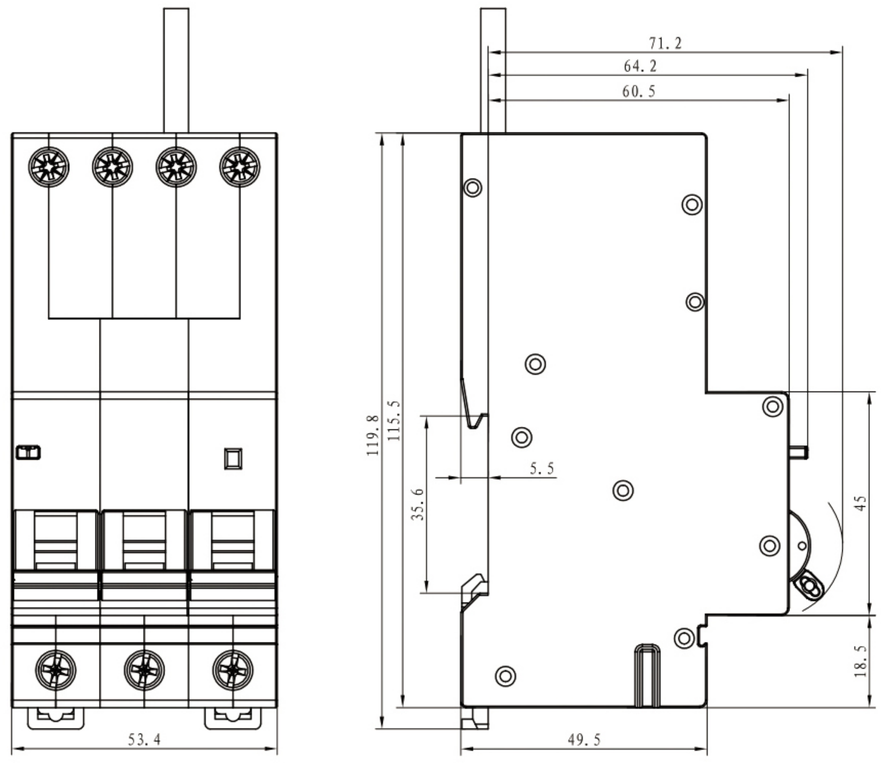
Construction and Feature

- Provides protection against earth fault/leakage current,short circuit,overload.
- Provides complementary protection against direct contact by human body.
- Effective protects electric equipment against insulating failure.
- Handle canbe locked with pad-lock toprevent unwanted operation forsafety.
- Operateswith or without inbuilt neutral lead.
- Power source does not rely only on L+N, can power on any combination of L/L/L.

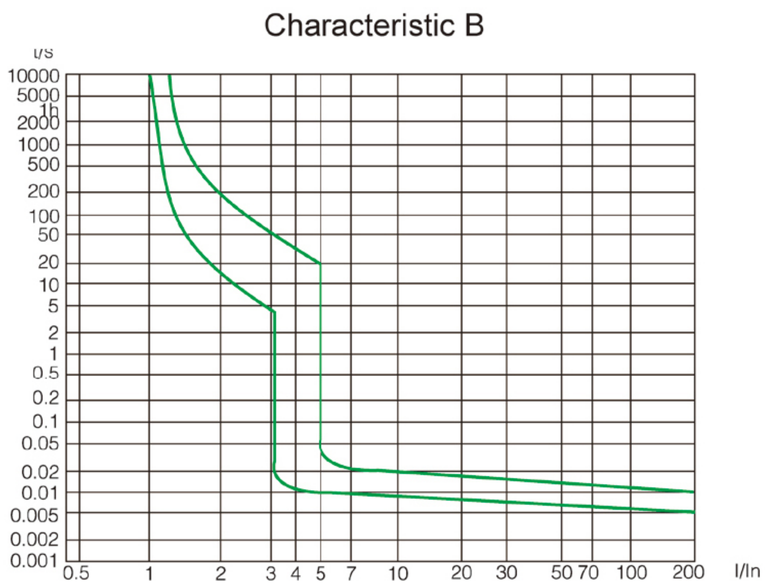
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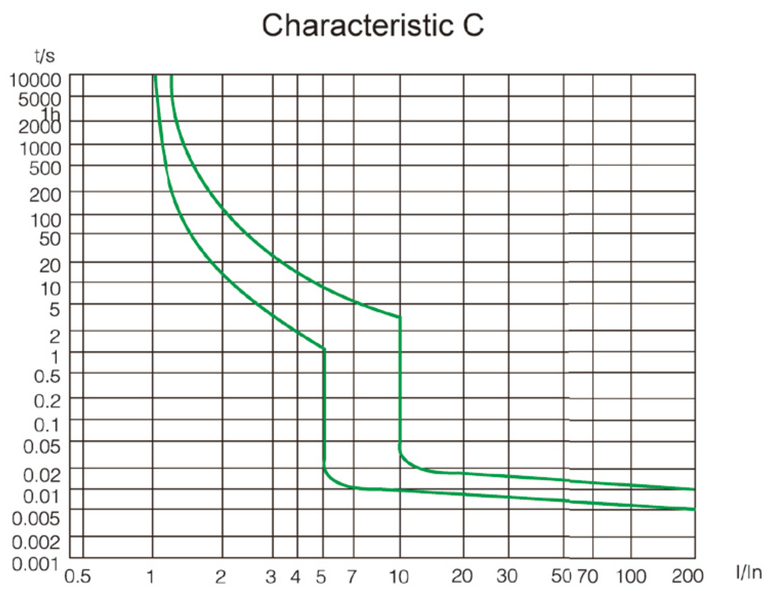
Standard			AS/NZS 61009.1
Rated Current (I_n)		A	6,10,16,20,25,32,40,50,63
Rated Operational Voltage (U_e)		V	400/415 AC
Number of Poles			3P+N
Rated Breaking Capacity	Ultimate (I_{cn})	kA	10
	Service (I_{cs})	kA	7.5
Magnetic Tripping Characteristics			B,C,D
Residual Tripping Characteristics			A
Rated Residual Current ($I_{\triangle n}$)		mA	10,30,100,300
Break Time Under ($I_{\triangle n}$)		s	⩽ 0.1s
Rated Insulation Voltage (U_i)		V	500
Rated Impulse Withstand Voltage (U_{imp})		kV	4
Mechanical Endurance		Cycles	20000
Electrical Endurance		Cycles	10000
Rated Frequency		Hz	50/60
Dielectric Strength		kV	2.5
Power Supply			UP
Terminal			Pillar type
Cable Termination		mm^2	25
Tightening Torque		Nm	2.5
IP Degree of Protection			IP20
Operating Temperature		°C	-5 ... 55
Storage Temperature		°C	-25 ... 70
Mounting			On DIN rail EN 60715 (35mm) by means of fast clip device
Connection			From bottom

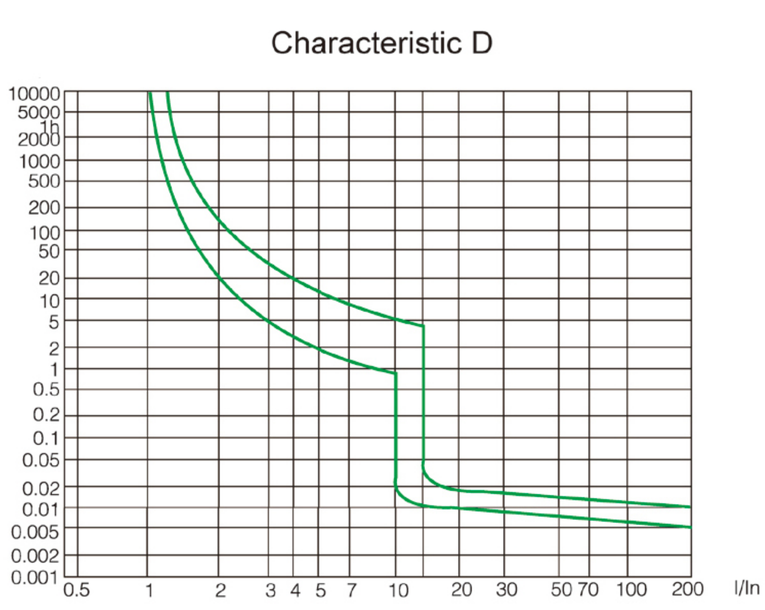
Dimensions (mm)



Tripping Characteristics







MCB SERIES
RELIABLE OVERCURRENT PROTECTION





NEO6

AS/NZS 60898.1

Applications



Approval / Marking

CE CB RoHS

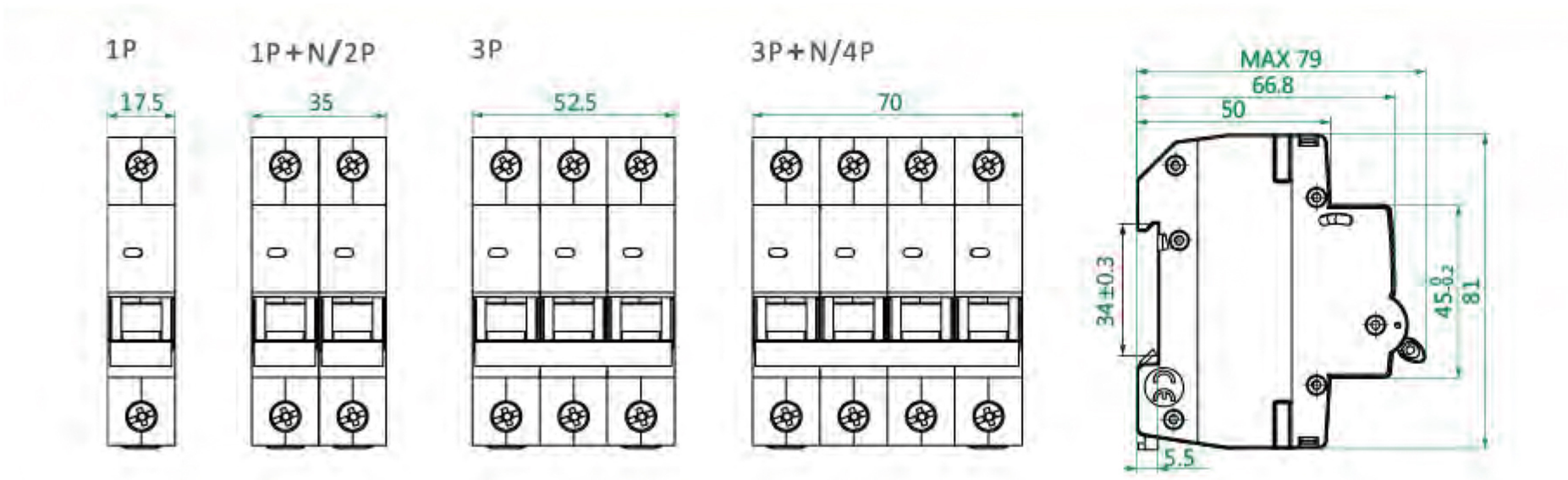
Construction and Feature

- An automatically operated electrical switch designed to protect an electrical circuit from damage caused by excess current from an overload or short circuit.
- StdIts basic function is to interrupt current flow after a fault is detected.
- They are common in domestic, commercial and industrial application.
- It also can be used for non-frequent on-and-off switching operations under normal circumstances.

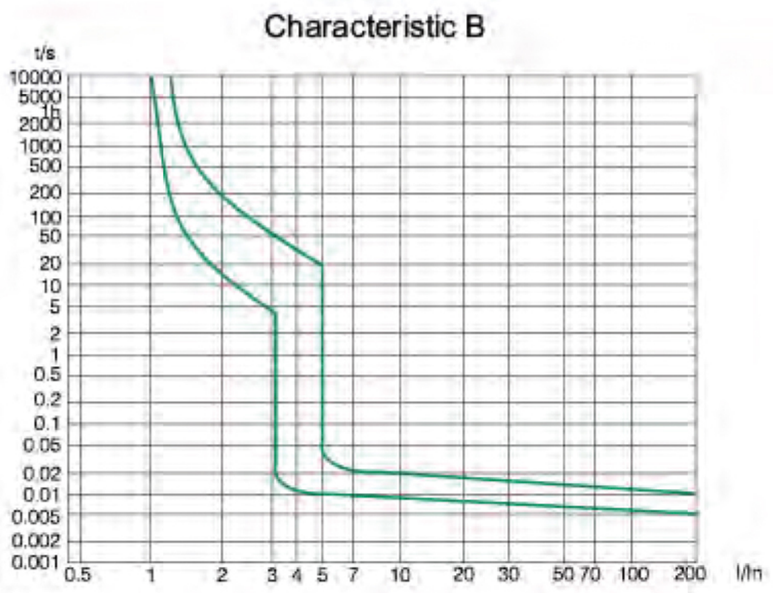
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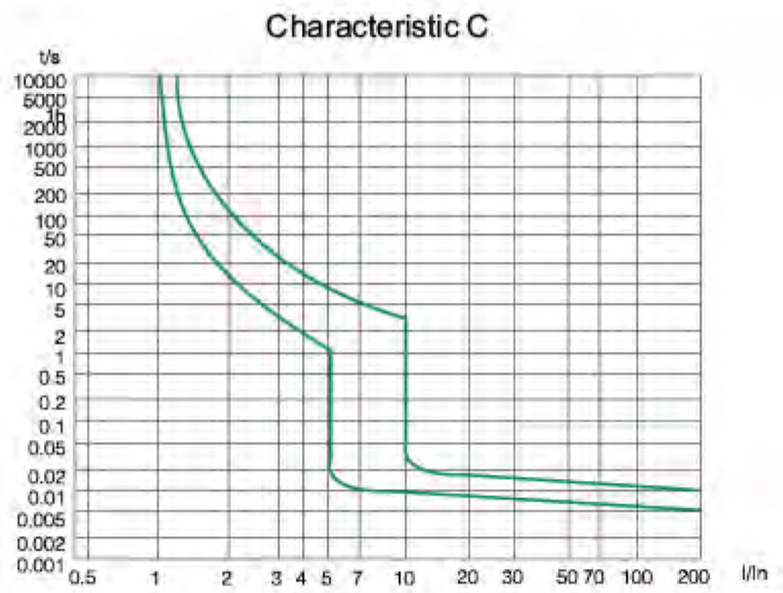
Electrical Features			
Standard			AS/NZS 60898.1
Number of Poles			1P, 1P+N, 2P, 3P, 3P+N, 4P
Rated Current (I_n)		A	6, 10, 16, 20, 25, 32, 40, 50, 63
Tripping Characteristics			B, C, D
Rated Breaking Capacity	Ultimate (I_{cn})	kA	6
	Service (I_{cs})	kA	6
Rated Operational Voltage (U_e)		V	230/400 AC
Minimum Operational Voltage (U_{min})		V	12
Maximum Operational Voltage (U_{max})		V	440
Rated Frequency		Hz	50/60
Rated Insulated Voltage (U_i)		V	AC 500
Rated Impulse Withstand Voltage (U_{imp})		kV	6
Dielectric Test Voltage		kV	2
Mechanical Endurance		cycles	10000
Electrical Endurance		cycles	4000
Line Voltage Connection			Arbitrary above or below
Installation Parameters			
IP Degree of Protection			IP20, IP40 (when fitted)
Operating Temperature		°C	-25…+70
Terminal Connection Type			Dual terminals – allow simultaneous connection of busbar and cable
Connectable Conductor Cross Section		mm²	1–25 mm²
Tightening Torque		N·m	2.0–3.0 N·m
Mounting			IEC/EN 60715 top-hat rail 35mm
Pollution Degree			2
Reference Temperature for Thermal Setting		°C	30
Altitude		m	⩽2000
Relative Humidity			⩽95%
Resistance to Humidity and Heat			Class 2
Installation Class			III

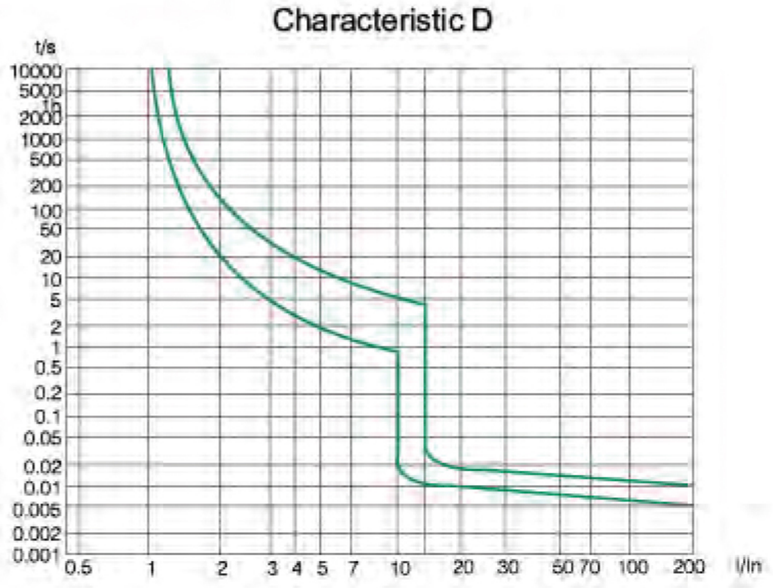
Dimensions (mm)



Tripping Characteristics









NEO6-125

AS/NZS 60947.2

Applications

Approval / Marking

RoHS

Construction and Feature

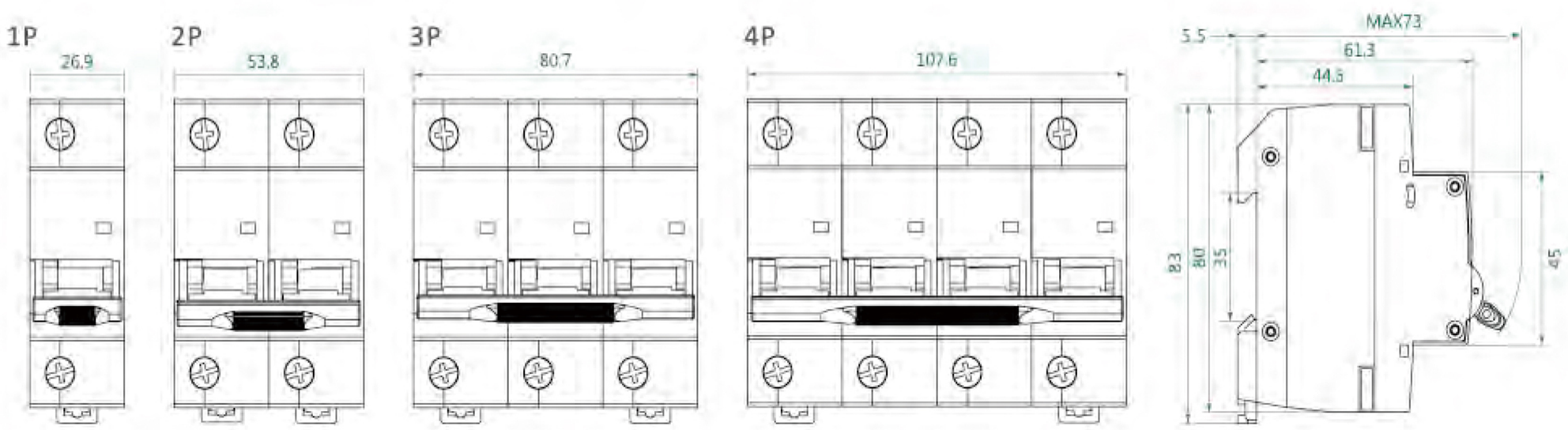
- It is suitable mainly for power distribution and industrial applications for short-circuit and overload current protection with rated current up to 125 A, and a very high rated breaking capacities (tested according to EN 60947-2).
- It also can be used for non-frequent on-and-off switching operations under normal circumstances.

Technical Data

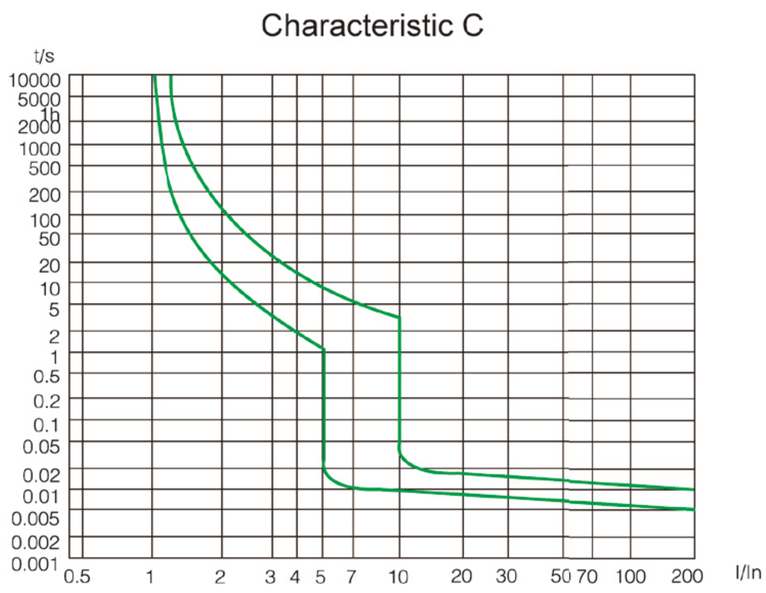
Electrical Features			
Standard			AS/NZS 60947.2
Number of Poles			1P,2P,3P,4P
Rated Current (I_n)		A	80, 100, 125
Tripping Characteristics			C,D
Rated Breaking Capacity	Ultimate (I_{cn})	kA	6
	Service (I_{cs})	kA	6
Rated Operational Voltage (U_e)		V	230/400
Minimum Operational Voltage (U_{min})		V	12
Maximum Operational Voltage (U_{max})		V	440
Rated Frequency		Hz	50/60
Rated Insulated Voltage (U_i)		V	500
Rated Impulse Withstand Voltage (U_{imp})		kV	6
Dielectric Test Voltage		kV	2
Mechanical Endurance		cycles	10000
Electrical Endurance		cycles	4000
Line Voltage Connection			Arbitrary above or below
Installation Parameters			
IP Degree of Protection			IP20, IP40 (when fitted)
Operating Temperature		°C	-25…+70
Terminal Connection Type			Cable
Connectable Conductor Cross Section		mm^2	2.5–50
Tightening Torque		N·m	2.0–3.5
Mounting			IEC/EN 60715 top-hat rail 35mm
Pollution Degree			2
Reference Temperature for Thermal Setting		°C	30
Altitude		m	⩽2000
Relative Humidity			⩽95%
Resistance to Humidity and Heat			Class 2
Installation Class			III

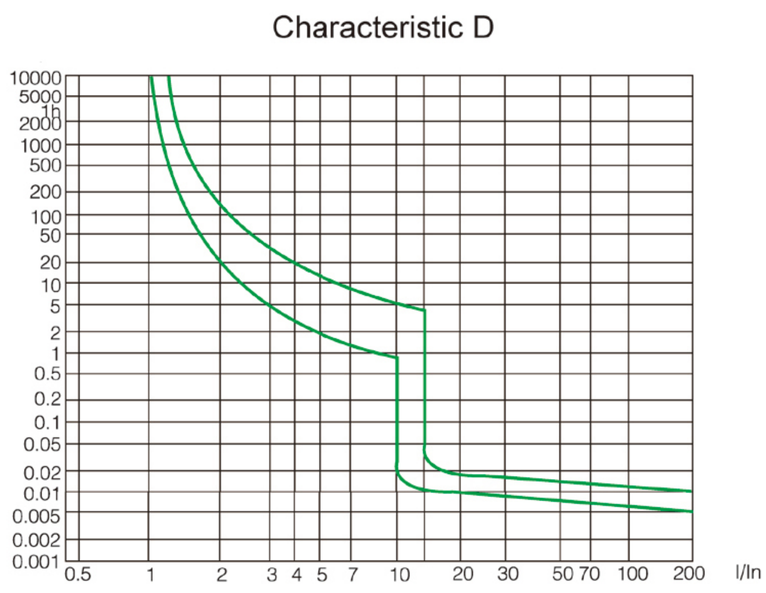
Combination with Accessories	
Auxiliary contact	No
Alarm contact	No
Shunt release	No
Shunt release + Aux	No
Undervoltage release	No
Overvoltage release	No
Over & under voltage release	No

Dimensions (mm)



Tripping Characteristics







NEO10

AS/NZS 60898.1

Applications

Approval / Marking

RoHS

Construction and Feature

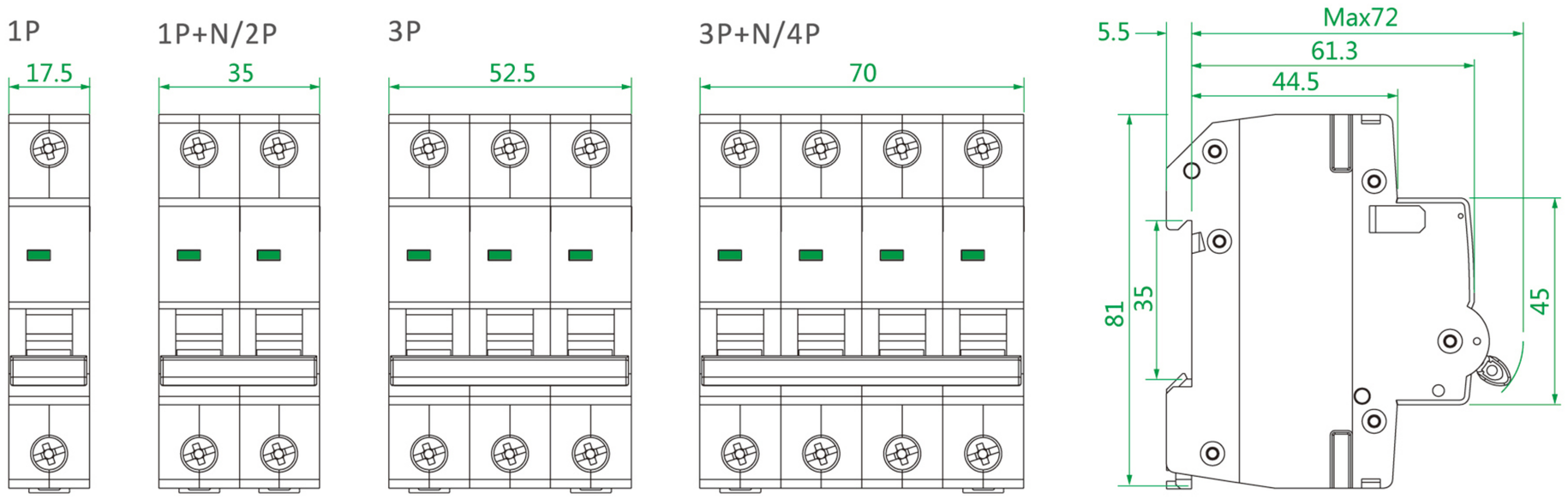
- An automatically operated electrical switch designed to protect an electrical circuit from damage caused by excess current from an overload or short circuit.
- Its basic function is to interrupt current flow after a fault is detected.
- They are common in domestic, commercial and industrial application.
- It also can be used for non-frequent on-and-off switching operations under normal circumstances.

Technical Data

Electrical Features			
Standard			AS/NZS 60898.1
Number of Poles			1P, 1P+N, 2P, 3P, 3P+N, 4P
Rated Current (I_n)		A	6, 10, 16, 20, 25, 32, 40, 50, 63
Tripping Characteristics			B,C,D
Rated Breaking Capacity	Ultimate (I_{cn})	kA	10kA
	Service (I_{cs})	kA	10
Rated Operational Voltage (U_e)		V	230/400 AC
Minimum Operational Voltage (U_{min})		V	12 AC
Maximum Operational Voltage (U_{max})		V	440 AC
Rated Frequency		Hz	50/60
Rated Insulated Voltage (U_i)		V	500
Rated Impulse Withstand Voltage (U_{imp})		kV	6
Dielectric Test Voltage		kV	2
Mechanical Endurance		cycles	10000
Electrical Endurance		cycles	4000
Line Voltage Connection			Arbitrary above or below
Installation Parameters			
IP Degree of Protection			IP20, IP40 (when fitted)
Operating Temperature		°C	-25…+70
Terminal Connection Type			Cable/Busbar
Connectable Conductor Cross Section		mm²	1–25
Tightening Torque		N·m	2.5
Mounting			IEC/EN 60715 top-hat rail 35mm
Pollution Degree			2
Reference Temperature for Thermal Setting		°C	30
Altitude		m	⩽2000
Relative Humidity			⩽95%

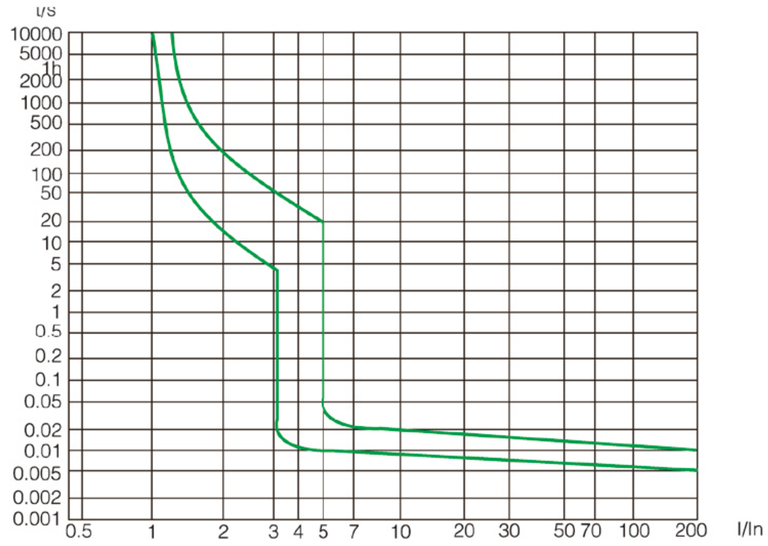
Combination with Accessories	
Auxiliary contact	Yes
Alarm contact	Yes
Shunt release	Yes
Shunt release + Aux	Yes
Undervoltage release	Yes
Overvoltage release	Yes
Over & under voltage release	Yes

Dimensions (mm)

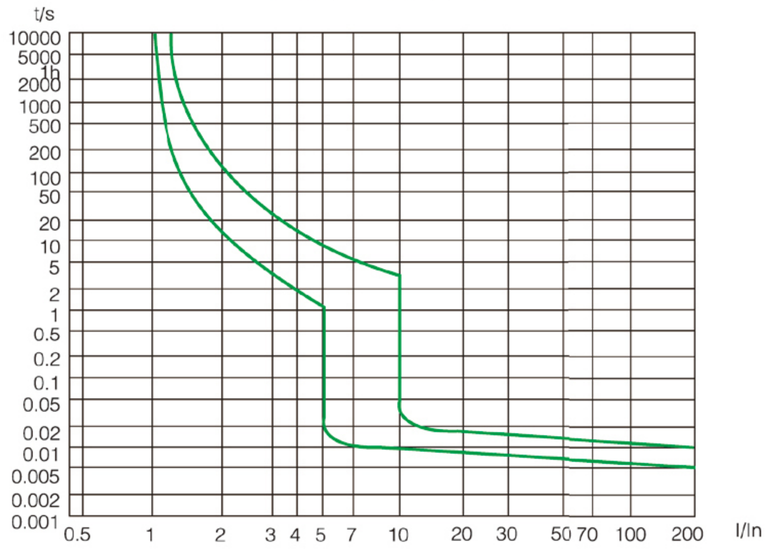


Tripping Characteristics

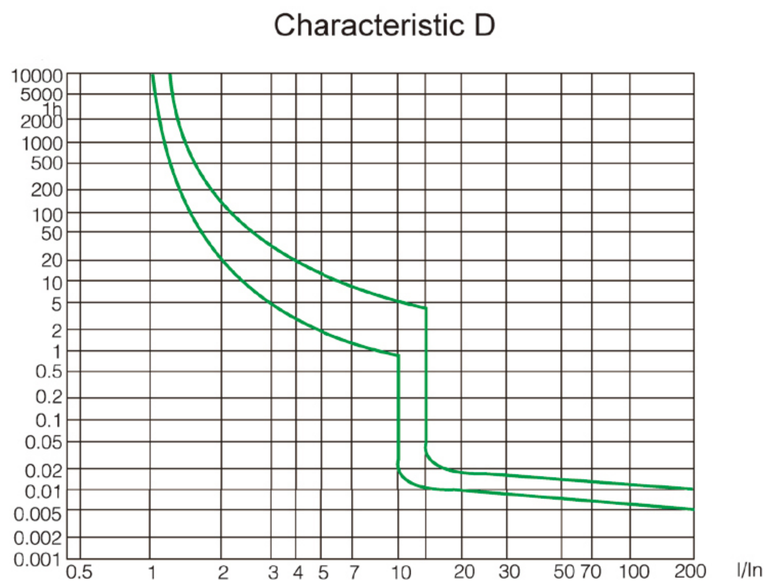
Characteristic B



Characteristic C



Characteristic D





NEO10-125

AS/NZS 60947.2

Applications

Approval / Marking

CE CB RoHS

Construction and Feature

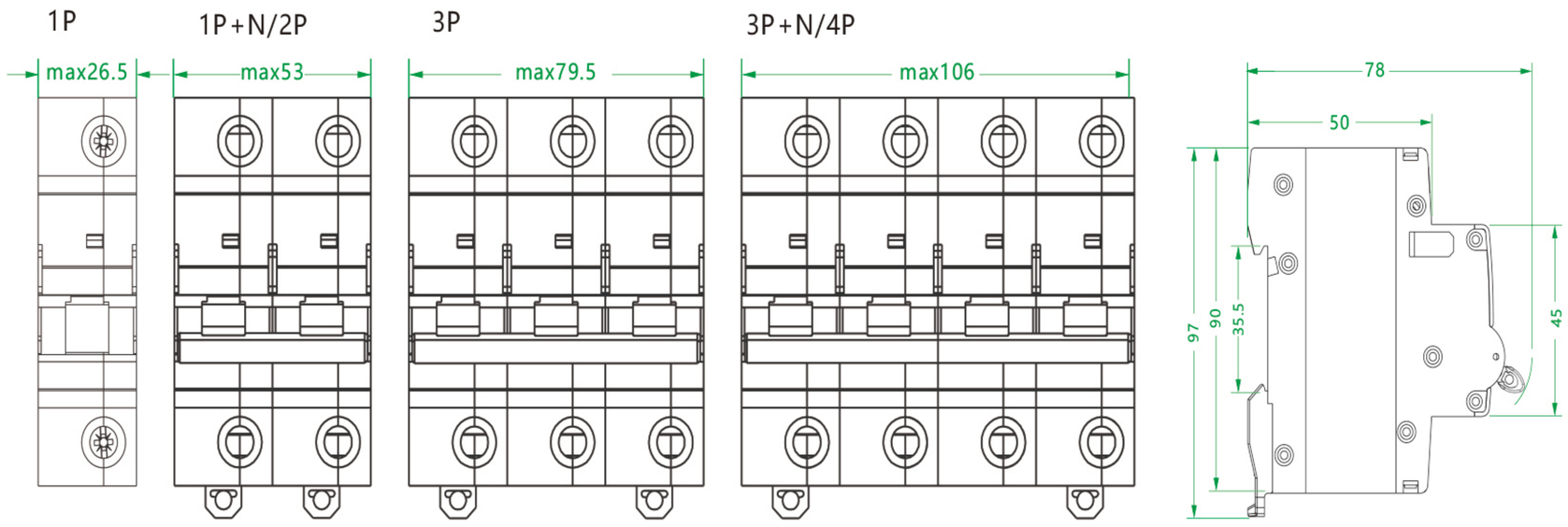
- An automatically operated electrical switch designed to protect an electrical circuit from damage caused by excess current from an overload or short circuit.
- Its basic function is to interrupt current flow after a fault is detected.
- They are common in domestic, commercial and industrial application.
- It also can be used for non-frequent on-and-off switching operations under normal circumstances.

Technical Data

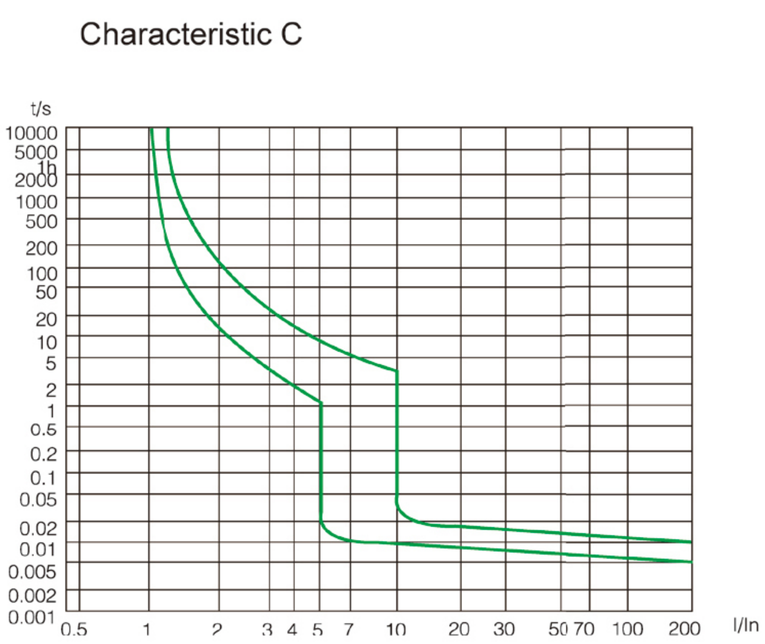
Electrical Features			
Standard			AS/NZS 60947.2
Number of Poles			1P,1P+N,2P,3P+N,4P
Rated Current (I_n)		A	80, 100, 125
Tripping Characteristics			C,D
Rated Breaking Capacity	Ultimate (I_{cn})	kA	10
	Service (I_{cs})	kA	10
Rated Operational Voltage (U_e)		V	230/400 AC
Minimum Operational Voltage (U_{min})		V	12 AC
Maximum Operational Voltage (U_{max})		V	440 AC
Rated Frequency		Hz	50/60
Rated Insulated Voltage (U_i)		V	690
Rated Impulse Withstand Voltage (U_{imp})		kV	6
Dielectric Test Voltage		kV	2
Mechanical Endurance		cycles	10000
Electrical Endurance		cycles	5000
Line Voltage Connection			Arbitrary above or below
Installation Parameters			
IP Degree of Protection			IP20, IP40 (when fitted)
Operating Temperature		°C	-25…+70
Terminal Connection Type			Cable/Busbar
Connectable Conductor Cross Section		mm²	35–50
Tightening Torque		N·m	3.5
Mounting			IEC/EN 60715 top-hat rail 35mm
Pollution Degree			3
Reference Temperature for Thermal Setting		°C	30
Altitude		m	⩽2000
Relative Humidity			⩽95%
Installation Class			III

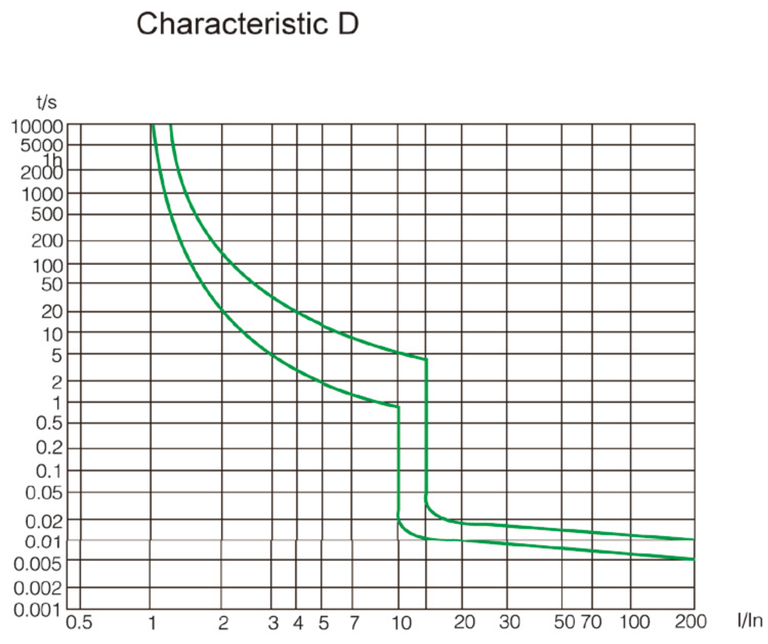
Combination with Accessories	
Auxiliary contact	Yes
Alarm contact	Yes
Shunt release	Yes
Shunt release + Aux	Yes
Undervoltage release	Yes
Overvoltage release	Yes
Over & under voltage release	Yes

Dimensions (mm)



Tripping Characteristics

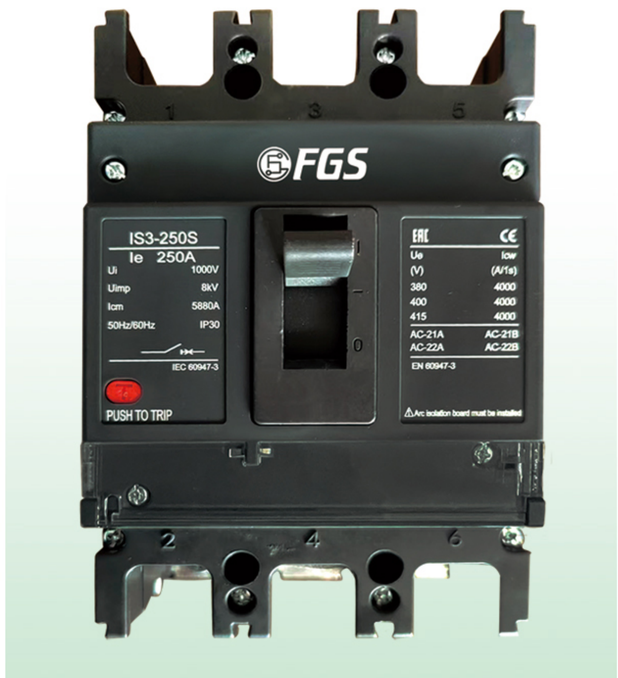




MCCB SERIES
HEAVY-DUTY CIRCUIT PROTECTION







IS3

IEC/EN 60947.3

Applications

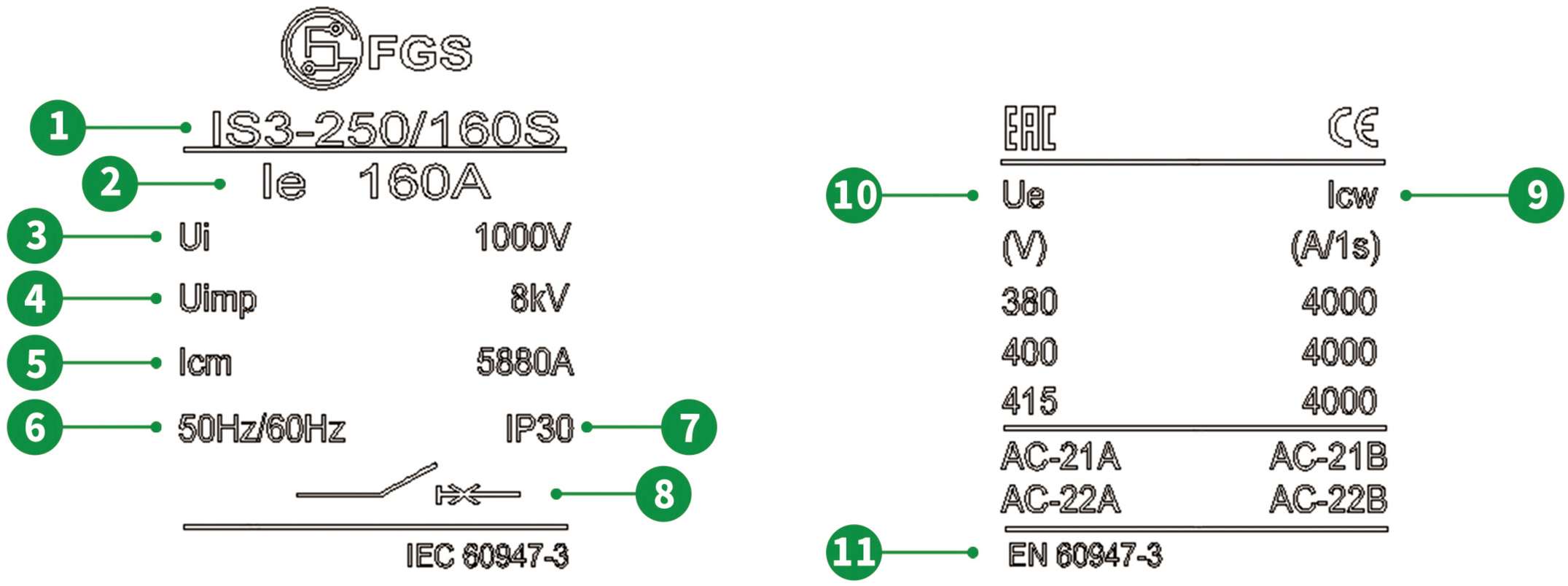
Approval / Marking

Construction and Feature

The disconnector switch series are mainly used for non-frequent circuit making or breaking circuit in the distribution network.

Technical Data

Model		IS3
Standard		IEC/EN 60947-3
Frame size	A	63, 125, 160, 250, 320, 400, 630
Rated operational voltage (U_e)	V	AC 380/400/415
Number of poles		3P, 4P
Installation method		fixed type; plug-in type



Nameplate of 1S3 disconnector switch

Installation method: stationary type and plug-in type

1. Product type: Frame size
2. In: Rated operational current
3. Ui: Rated insulation voltage
4. Uimp: Rated impulsive withstand voltage
5. Icm: Rated short-time making capacity
6. Frequency of A.C.
7. Enclosure rating
8. Electrical symbol for circuit breaker with isolating function
9. Icw: Rated short-time withstand current
10. Ue: Rated operational voltage
11. The product is in conformity with standard IEC/EN 60947-3



TR3-250/320

Thermal - magnetic fixed type

IEC/EN 60947.2

Applications

Approval / Marking

CE CB RoHS

Technical Data

Model			TR3-250/320		
Standard			IEC/EN 60947.2		
Frame Size Rating Current (I_{nm})		A	250		
Number of Poles			3P, 4P		
Rated Current (I_n)		A	TR3-250S：In=100,125,140,160,180,200,225,250A； TR3-320：In=280,300,315,320A		
Rated Operating Voltage (U_e)		V	AC400V/415V/500V/660V/690V		
Rated Insulation Voltage (U_i)		V	1140		
Rated Impulse Withstand Voltage (U_{imp})		kV	8		
Breaking Capacity Code			S	H	R
Rated Operating Short-Circuit Breaking Capacity (I_{cs})	AC400V/415V	kA	25	36	50
	AC500V		20	20	20
	AC660V/690V		10	10	15
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu})	AC400V/415V	kA	36	50	75
	AC500V		25	25	25
	AC660V/690V		15	15	20
Selective Category			A		
Number of Loop Operations (Electrical Endurance)	Power on		3000		
	Not powered		7000		
Types of Overcurrent Trip Units			Thermomagnetic (Fixed Type)		
Accessories			Auxiliary contacts, alarm contacts, release trip coil, undervoltage trip, manual operating mechanism, electric operating mechanism		

Dimensions (mm)

Model	External dimensions													Installation dimensions			
TR3-250/320	W	W1	W2	L	L1	L2	L3	L4	H	H1	H2	H3	H4	A	B	B1	Φd
	142	107	35	165	65.6	102	51	142	85	96	120	92	95.5	126	35	70	4.5

Miniaturized Design: The product has a compact size, which can meet customers' personalized requirements for installation dimensions.

Uniform Size: Under the same shelf level, products with different breaking capacities (S, H, R) and different functions (thermal-magnetic fixed type, thermal-magnetic adjustable type) have completely consistent installation dimensions.

TR3RT-250/320

Thermal - magnetic adjustable type

IEC/EN 60947.2

Applications

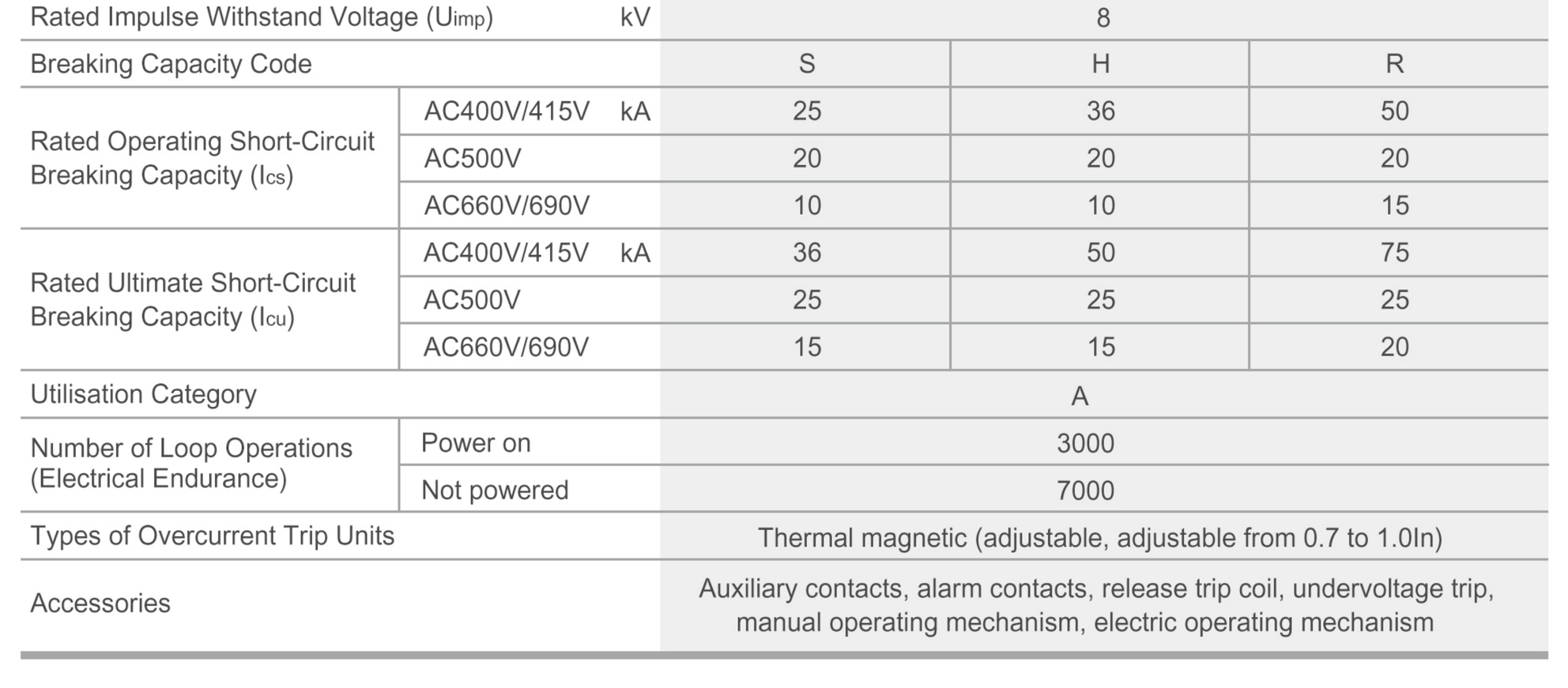


Approval / Marking

CE CB RoHS

Technical Data

Model			**TR3-250/320**		
Standard			IEC/EN 60947.2		
Frame Size Rating Current (I_{nm})		A	250		
Number of Poles			3P, 4P		
Rated Current (I_n)		A	TR3RT-250：In=100,125,140,160,180,200,225,250 TR3RT-320：In=280,300,315,320		
Rated Operating Voltage (U_e)		V	AC 400/415/500/660/690		
Rated Insulation Voltage (U_i)		V	1140		
Rated Impulse Withstand Voltage (U_{imp})		kV	8		
Breaking Capacity Code			S	H	R
Rated Operating Short-Circuit Breaking Capacity (I_{cs})	AC400V/415V	kA	25	36	50
	AC500V		20	20	20
	AC660V/690V		10	10	15
Rated Ultimate Short-Circuit Breaking Capacity (I_{cu})	AC400V/415V	kA	36	50	75
	AC500V		25	25	25
	AC660V/690V		15	15	20
Utilisation Category			A		
Number of Loop Operations (Electrical Endurance)	Power on		3000		
	Not powered		7000		
Types of Overcurrent Trip Units			Thermal magnetic (adjustable, adjustable from 0.7 to 1.0In)		
Accessories			Auxiliary contacts, alarm contacts, release trip coil, undervoltage trip, manual operating mechanism, electric operating mechanism		



WEATHERPROOF SWITCHBOARD

Characteristic

Suitable for special occasions such as waterproof, dustproof and anti-corrosion
Standard: EN 61439-3

Summary

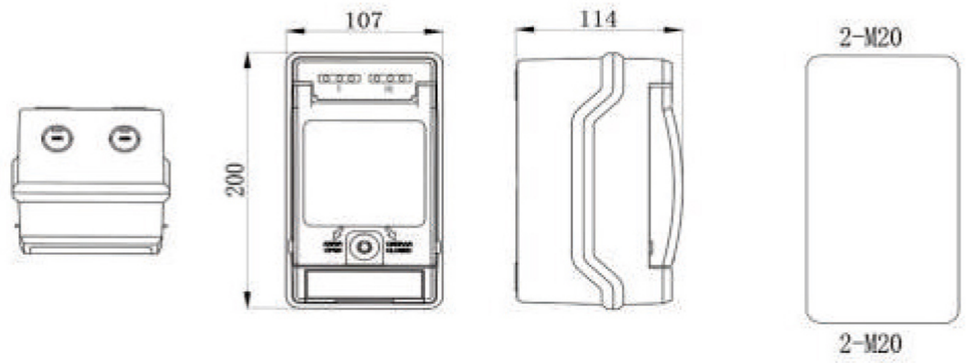
Waterproof, dustproof, with a protection level of IP66, UV resistant, and a scorching wire temperature of 650 ℃. Holes can be opened according to customer requirements, with complete specifications and convenient installation.



Product size

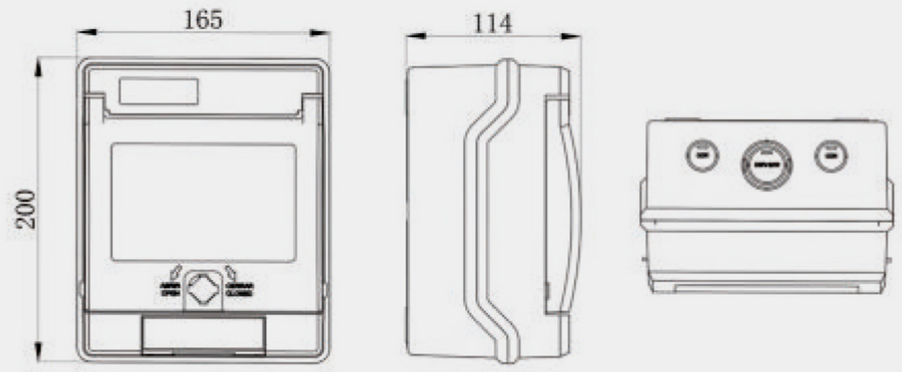


ECWP4S L200×W107×H114



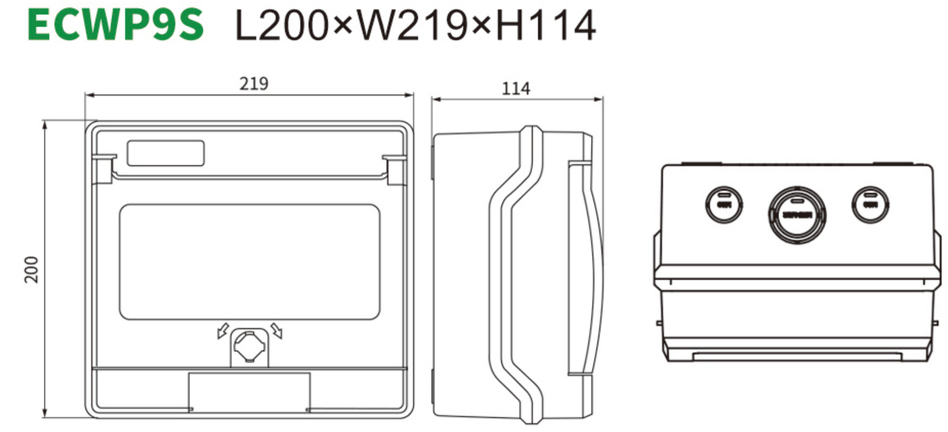


ECWP6S L200×W165×H114



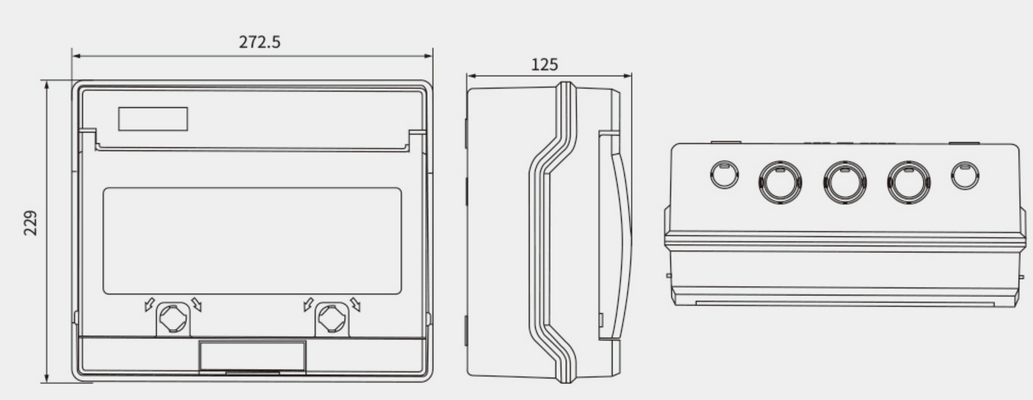


ECWP9S L200×W219×H114





ECWP12S L229×W272.5×H125



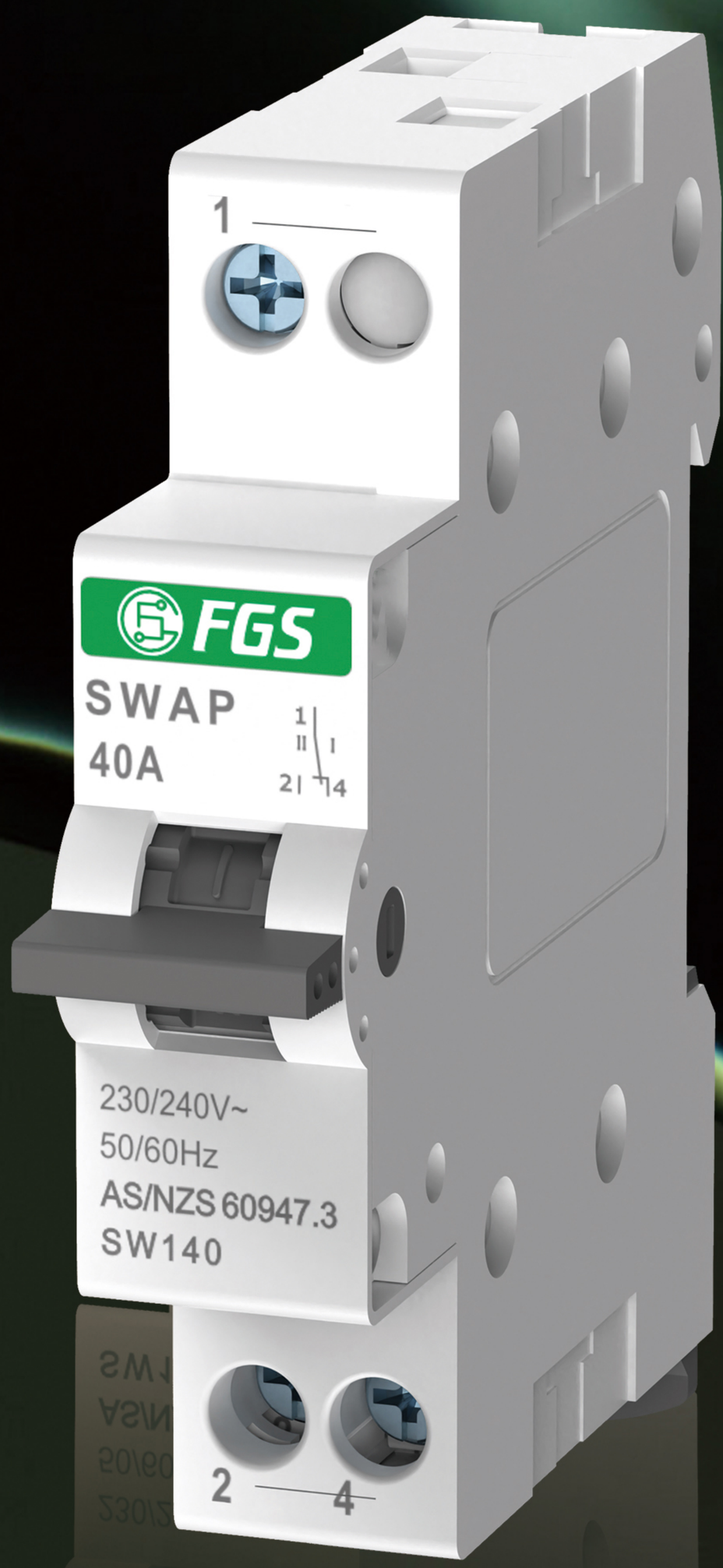
Technical Data

Equipment Type		Load Centre
Standards		IEC/EN 61439-3, IEC/EN 60670-24
Number of Modules		4, 6, 9, 12
Rated Current (I_n)	A	125
Rated Operational Voltage (U_e)	V	440
Ingress Protection		IP66
Resistance to Impact		IK09
Fire Resistance	°C	Glow wire test 650
Material		ABS-FR

CHANGEOVER SWITCH

Function and Feature

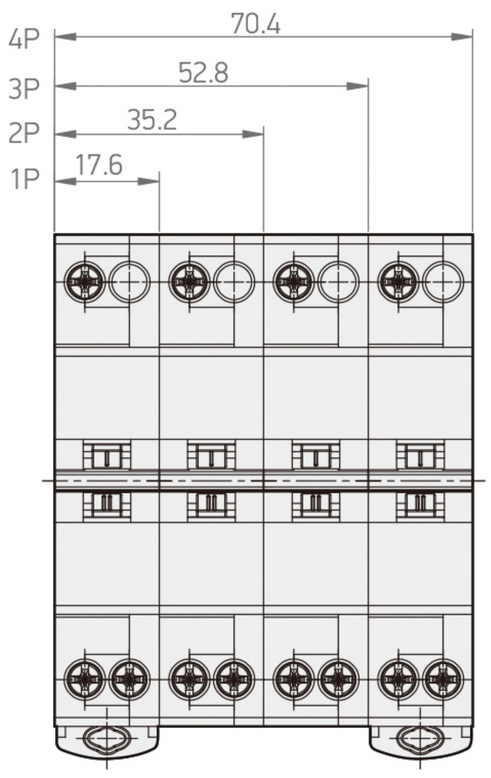
Handle with 3 stage: I-O-II
Changeover switch with zero position in middle
Modularized and Din Rail mounting
Standard:AS/NZS 60947.3

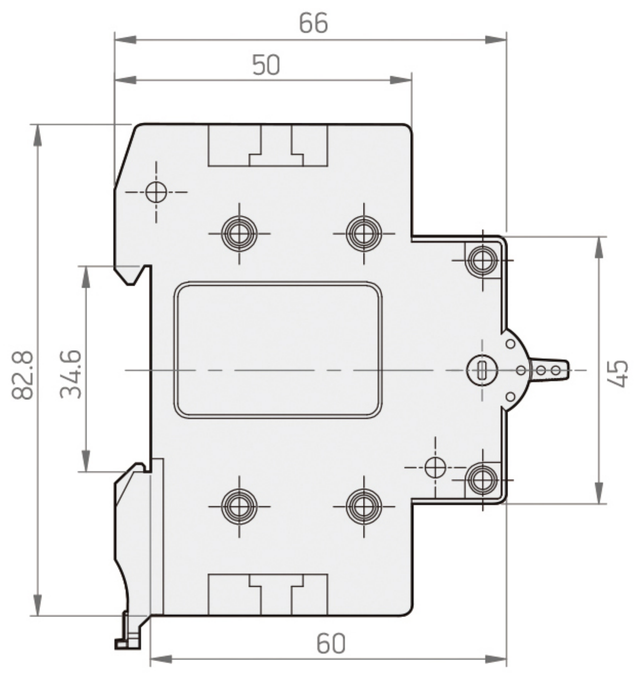


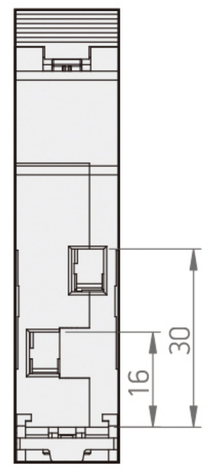
Technical Data

Stardand		AS/NZS 60947.3
Rated Current (I_e)	A	6, 10, 16, 20, 25, 32, 40, 63
Rated Operational Voltage (U_e)	V	240/415
Number of Poles		1P, 2P, 3P, 4P
Rated Impulse Withstand Voltage (U_{imp})	kV	4
Rated Short-time Withstand Current (I_{cw})	A	480/1s
Rated Short-circuit Making Capacity (I_{cm})	A	800
Rated Frequency	Hz	50/60
IP Degree of Protection		IP20
Electrical Endurance	Cycles	2000
Mechanical Endurance	Cycles	10000
Utilization Category		AC-22A
Cable Termination	mm^2	16
Tightening Torque	N.m	1.2
Terminals		Pillar type

Dimensions (mm)







MODULAR CONTACTOR



PL Modular Contactors

IEC/EN 60947-4-1 IEC/EN 61095

Applications



Approval / Marking

CE S CB **RoHS**

Construction and Feature

- Designed for general – purpose applications
- Available in various configurations to accommodate different voltage and current requirements
- To handle high currents in electrical distribution systems, allowing easy integration
- To provide a reliable and efficient means of controlling the flow of electricity
- Widely used in lighting control, HVAC systems and motor control systems
- Featured for its reliable operation, enhanced safety and easy integration

Technical Data

Rated Current (I_n)	A	20, 25, 40, 63, 80, 100, 125
Rated Operational Voltage (U_e)	V	230/400
Control Voltage (U_c)	V	24/48/110/230
Number of Module		1M, 2M, 3M, 6M
Rated Frequency	Hz	50/60
Utilization Category		AC1, AC3, AC7a, AC7b, AC5b
Electrical Endurance	Cycles	150,000 (AC1, AC7a); 150,000 (AC3, AC7b)
Mechanical Endurance	Cycles	1000000
Rated Insulation Voltage (U_i)	V	500
Rated Impulse Withstand Voltage (U_{imp})	kV	4
Terminals		Pillar Type
Cable Termination	mm^2	10 16 35
Torque of Screw	N.m	1.2 2.0 3.5
IP Degree		IP20

Technical Details

Contactors								
Rating(module)		PL-20	PL-25/4	PL-40/4	PL-63/4	PL-63/2	PL-125/2	PL-125/4
General								
Standards		IEC/EN 60947-4-1 IEC/EN 61095						
Nominal operating voltage 1-Phase	Ue 1-ph.	230V	230V	230V	230V	230V	230V	2400V
Nominal operating voltage 3-Phase	Ue 3-ph.	-	400V	400V	400V	-	400V	-
Mechanical endurance (switching cycles)		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Protection class		IP20	IP20	IP20	IP20	IP20	IP20	IP20
Permissible ambient temperature		-30℃…+80℃	-30℃…+80℃	-30℃…+80℃	-30℃…+80℃	-30℃…+80℃	-30℃…+80℃	-30℃…+80℃
Consumption (230V AC)		⩽1.1W	⩽1.35W	⩽1.55W	⩽1.55W	⩽1.55W	⩽1.55W	⩽1.55W
Contact rating								
Rated insulation voltage	Ui	500V	500V	500V	500V	500V	500V	500V
Frequency		50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Rated impulse withstand voltage	Uimp	4kV	4kV	4kV	4kV	4kV	4kV	4kV
Rated thermal current	Ith	20A(25A)	25A	40A	63A	63A	125A	125A
AC1 / AC7a Rated operational current	Ie	20A(25A)	25A	40A	63A	63A	125A	125A
AC1 / AC7a Rated operational current AT Ue =230Vac	Pmax	4.5kW (5kW)	5kW	9kW	11.6kW	11.6kW	25kW	25kW
AC1 / AC7a Rated operational current AT Ue =400Vac	Pmax	-	16kW	27.5kW	40kW	-	-	65kW
AC3 / AC7b Rated operational current AT Ue =230Vac	Pmax	1.2kW	1.5kW	3kW	3.3kW	3.3kW	6kW	6kW
AC3 / AC7b Rated operational current AT Ue =400Vac	Pmax	-	4kW	12.5kW	15kW	-	-	22kW
Electrical endurance								
Maximum operating cycles at AC1/AC7a application		250000	250000	250000	30000	30000	30000	30000
Maximum operating cycles at AC3/AC7b application		250000	250000	250000	30000	30000	30000	30000
Maximum back-up fuse		25A gL	25A gL	63A gL	63A gL	63A gL	125A gL	125A gL
Trip Coil Power-Switching on (Inrush power)		14-18VA	14-18VA	33-45VA	33-45VA	33-45VA	33-45VA	33-45VA
Trip Coil Power-Holding (Hold-in power)		4.4-8.4VA	4.4-8.4VA	7VA	7VA	7VA	7VA	14VA
		1.6-3.2W	1.6-3.2W	2.6W	2.6W	2.6W	2.6W	5.2W
Opening delay (Opening time)		<20mS	<20mS	<45mS	<45mS	<45mS	<45mS	<45mS
Terminals for main & auxiliairy contacts								
Terminal capacity-fine stranded wire		2 1-6mm	2 1-6mm	2 1-16mm	2 1-16mm	2 1-16mm	2 1-16mm	2 1-16mm
Terminal capacity-solid wire		2 1-10mm	2 1-10mm	2 1-25mm	2 1-25mm	2 1-25mm	2 1-25mm	2 1-25mm
Terminal screw size		M4	M4	M5	M5	M5	M6	M6
Maximum torque		1.2Nm	1.2Nm	2.0Nm	2.0Nm	2.0Nm	2.5Nm	2.5Nm
Terminals for operating coils								
Terminal capacity-fine stranded wire		2 1-2.5mm	2 1-2.5mm	2 1-2.5mm	2 1-2.5mm	2 1-2.5mm	2 1-2.5mm	2 1-2.5mm
Terminal capacity-solid wire		2 1-2.5mm	2 1-2.5mm	2 1-2.5mm	2 1-2.5mm	2 1-2.5mm	2 1-2.5mm	2 1-2.5mm
Terminal screw size		M3	M3	M3	M3	M3	M3	M3
Maximum torque		0.6Nm	0.6Nm	0.6Nm	0.6Nm	0.6Nm	0.6Nm	0.6Nm

PL Modular Contactors

Torque and Wiring Data

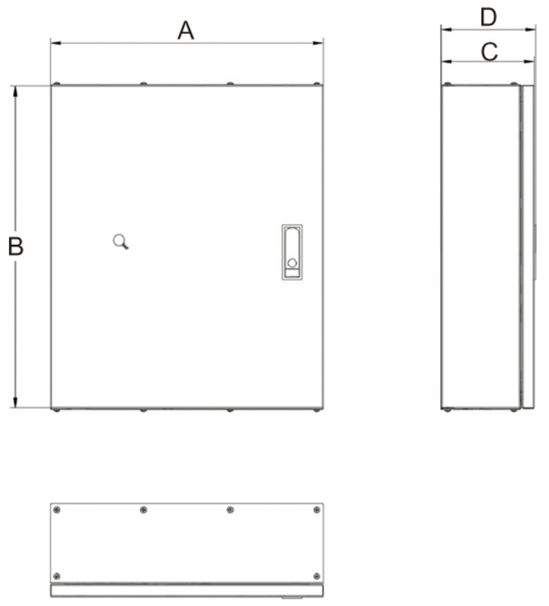
Products Type	Main Circuit				Control Circuit			
	Screw Type	Torque	Corresponding Screw Driver	Wire Stripping Length	Screw Type	Torque	Corresponding Screw Driver	Wire Stripping Length
PL-25/2,1M 25A	M4 screw	1.2N.m	PZ	9.0mm	M3 screw	0.5N.m	PZ	6.5mm
PL-25/4,2M 25A	M4 screw	1.2N.m	PZ	12mm	M3 screw	0.5N.m	PZ	6.5mm
PL-63/2,2M 63A	M5 screw	2.0N.m	PZ2	13mm	M3 screw	0.5N.m	PZ	6.5mm
PL-63/4,3M 63A	M5 screw	2.0N.m	PZ2	13mm	M3 screw	0.5N.m	PZ2	6.5mm
PL-100/2,3M 100A	M7 screw	3.5N.m	PZ2	13mm	M3 screw	0.5N.m	PZ	6.5mm
PL-100/4,6M 100A	M7 screw	3.5N.m	PZ2	13mm	M3 screw	0.5N.m	PZ	6.5mm

DISTRIBUTION BOARD

Product Parameter

Model		GEC 18/24/36/48
Rated Current (I_e)	A	250 A
Rated Operational Voltage (U_e)	V	415 V
Rated Insulation Voltage (U_i)	V	500 V
Rated Impulse Withstand Voltage (U_{imp})	kV	6 kV
Number of Poles Main switch		3
Main Switch Rated Current	A	250 A
Neutral Terminal Block Current	A	250 A
Earthing Terminal Block Current	A	250 A
Standard		AS/NZS 61439.1:2016; AS/NZS 61439.2:2016
Number of Outgoing Ways		18/24/36/48
Spare DIN Equipment Space (poles)		12
Enclosure Material		Steel
Material Thickness	mm	door: 1.6mm, body:1.3mm
Colour		GREY RAL-7035
IP Degree of Protection		IP40

Dimensional Diagram







Module Size	A	B	C	D
GEC18	550mm	650mm	190mm	193mm
GEC24	550mm	650mm	190mm	193mm
GEC36	550mm	850mm	190mm	193mm
GEC48	550mm	850mm	190mm	193mm



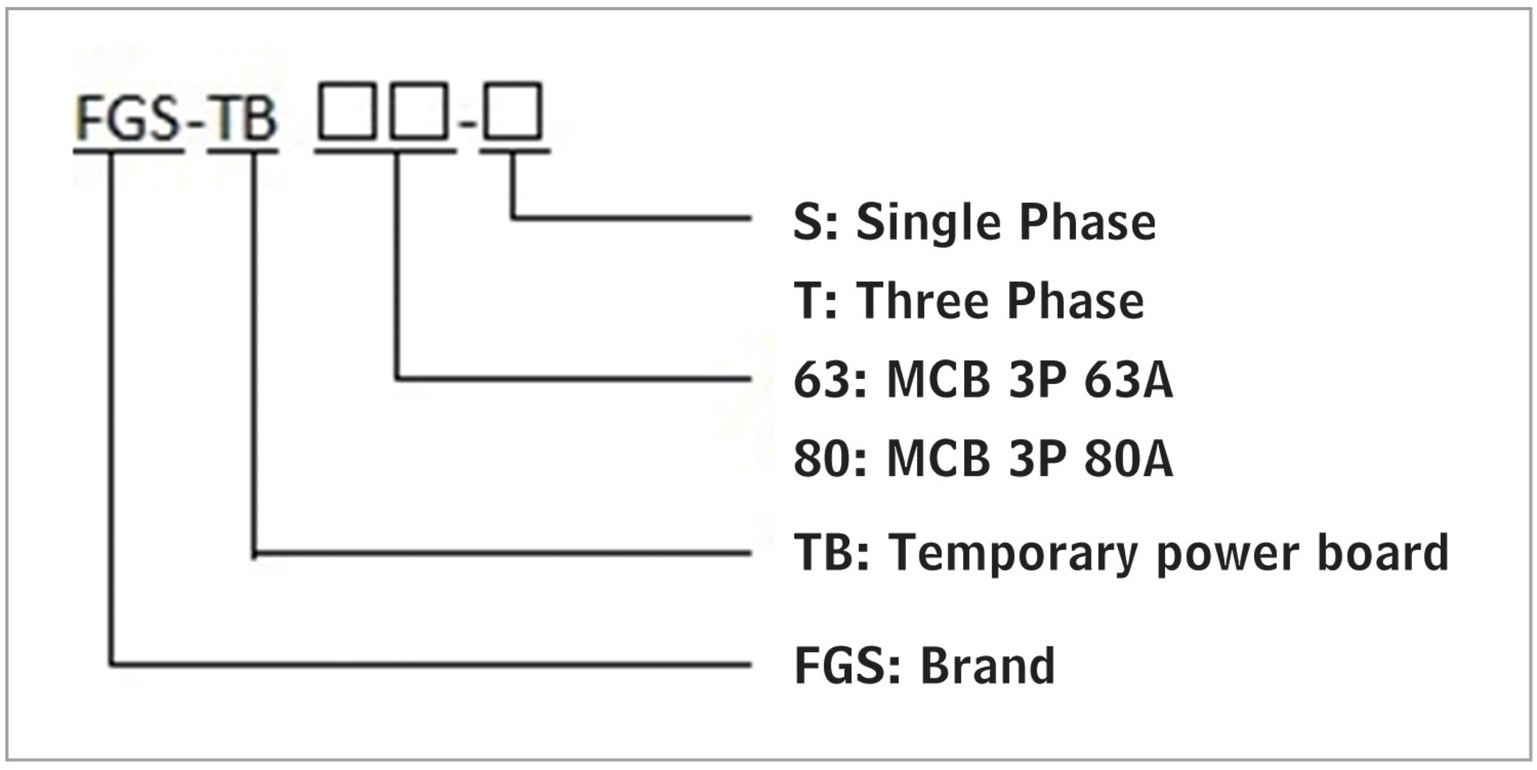




TEMPORARY POWER BOARD



Temporary Power Board model



TB-63S

Model Code	FGS-TB-63S
Phase Type	Single Phase (S model)
Nominal Operational Voltage	240 VAC
GPO Socket – 10A (Double Pole)	Up to 5 sockets
GPO Socket – 15A (Single Pole)	Up to 5 sockets
Neutral Link – Red (7 hole)	Up to 3 links
Neutral Link – Black (7 hole)	Up to 1 link
Earthing Neutral Link	Up to 1 link
RCBO Configuration	Up to 3 × 1P + N RCBO (2 × 20A, 1 × 25A)
Main Switch (MCB)	Up to 1 × 3P MCB 63A
Temp Board Size	500 × 450 × 250 mm 600 × 450 × 250 mm (with waterproof socket)
Stand Height	1760 mm
Installation Type	Floor mounted, fully wired and labeled
Locking Mechanism	Pad lockable, 8 mm hole for pad lock
IP Rating	IP42
Colour	Orange (RAL 2000)
Standard Compliance	AS/NZS 3000 / AS/NZS 3012 / AS/NZS 3100 / AS/NZS 61439

TB-80T

Model Code	FGS-TB-80T
Phase Type	Three Phase (T model)
Nominal Operational Voltage	415 VAC
Waterproof Socket	Up to 1–3 phases 32A waterproof socket
Neutral Link – Red (7 hole)	Up to 3 links
Neutral Link – Black (7 hole)	Up to 1 link
Earthing Neutral Link	Up to 1 link
RCBO (Main Circuit)	Up to 1 × 1P + N RCBO 40A
Main Switch (MCB)	Up to 1 × 3P MCB 80A
Temp Board Size	500 × 450 × 250 mm 600 × 450 × 250 mm (with waterproof socket)
Stand Height	1760 mm
Installation Type	Floor mounted, fully wired and labeled
Locking Mechanism	Pad lockable, 8 mm hole for pad lock
IP Rating	IP42
Colour	Orange (RAL 2000)
Standard Compliance	AS/NZS 3000 / AS/NZS 3012 / AS/NZS 3100 / AS/NZS 61439

Application Scenarios

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Industrial Power Protection

Robust FGS MCCBs safeguard critical machinery and power infrastructure in industrial facilities.





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