

DIN POP

Miniature circuit breaker		
DL9-40	.....	01-02
DL7-63	.....	03-04
DL3-63	.....	05
FDM16-125	.....	06
Main switch		
FDD7-100	.....	07
Residual current circuit breaker		
DLF7-63	.....	08-09
Residual Current Circuit breaker with Over current protection(RCBO)		
DR6-40	10-11
DL7NL-40	12-13
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FDR16-40	16-17
DR7-40N	18
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Contactors		
FDC16	20
Timer		
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DL9-40



INNOVATION

MICRO CIRCUIT BREAKER

- Width = 9mm
- Breaking Capacity = 6000A
- Approval: **KEMA**
- To be released on July.2014

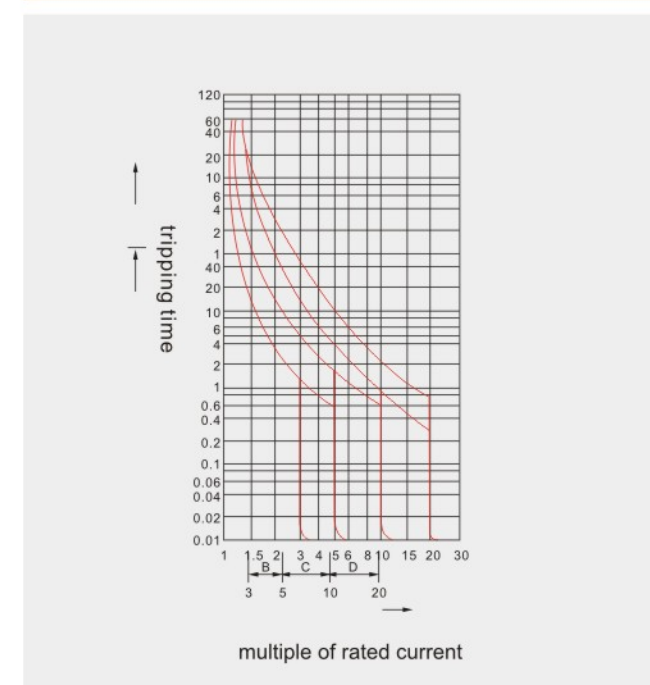
Features and advantages

- The real 6kA Micro Circuit Breaker the slimmest, patented, and reliable circuit breaker.
- Genuine 6kA fault level after hundreds of seriously passed test. suit both residential and commercial applications.
- Half module(9mm) is ideal to save valuable switchboard space. Required by more and more electrical compliance, the household also need more and more circuit breaker to protect.
- All accessories available. All normal used accessories, such as contact, alarm, over-voltage protector, shunt release, are available for this micro circuit breaker;
- 10 years R&D, wholly patent protected
- Easy to comply with a RCD or RCBO.

Instantaneous tripping current

- B curve: 3In~5In, Circuits with low inductive load;
- C curve: 5In~10In, Circuits with low inductive load or highly inductive illumination system;
- D curve: 10In ~ 20In, Circuits with high inductive load or electric distribution system with high surge current

B, c tripping curve(see graphics 1)



Technical data

- SAA Approval No.: 142612
- Standard: AS/NZS60898.1:2004
- Poles: 1, 1P+N, 2, 3, 3P+N, 4P
- Magnetic tripping characteristics: B, C
- Rated current: 6, 10, 16, 20, 25, 32, 40
- Rated short-circuit capacity(Icn): 3kA, 4.5kA, 6kA
- Rated voltage: 230/400V
- Frequency: 50/60
- Maximum service voltage: 264
- Contact position indication: Yes
- Energy limiting class: 3
- Electrical Life: >6000
- Mechanical Life: >15000
- Connection terminal: Screw terminal
Pillar terminal with clamp
- Connection capacity: 1~16mm
- Installation: Symmetrical DIN rail 35mm
Panel mounting
- Accessories: OF: Auxiliary contact
FB: Auxiliary alarm
QY: under/over voltage protector
FL: Shunt release

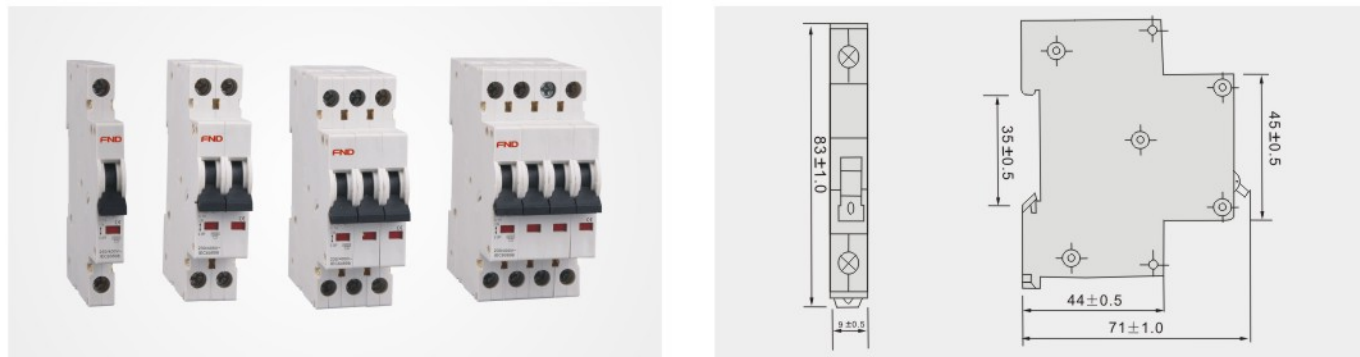


Micro Circuit Breaker 6000A



Miniature Circuit Breaker 10KA

DL9-40

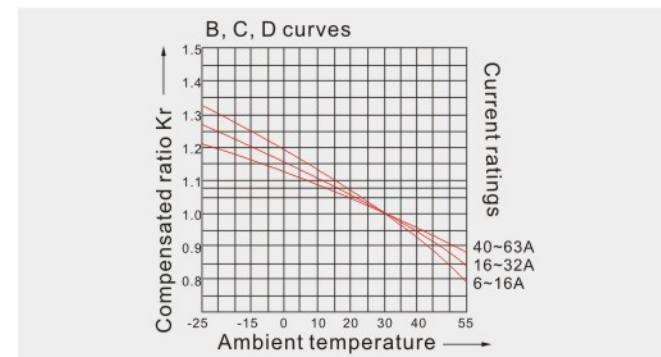


Mirco circuit breaker / 9mm /6ka

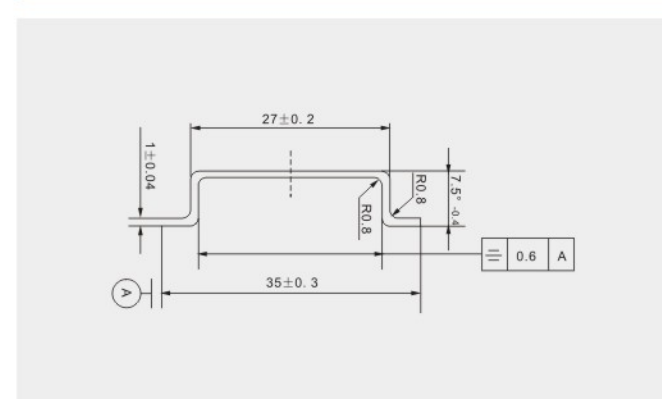
Magnetic Tripping Characteristic	Breaking Capacity (A)	Rated Current (A)	Order No.		
			B curve	C curve	D curve
B,C,D curve 1P 1P+N 2P 3P 3P+N 4P	6000	6	DL9-40, B6, 6kA	DL9-40, C6, 6kA	DL9-40, D6, 6kA
		10	DL9-40, B10, 6kA	DL9-40, C10, 6kA	DL9-40, D10, 6kA
		16	DL9-40, B16, 6kA	DL9-40, C16, 6kA	DL9-40, D16, 6kA
		20	DL9-40, B20, 6kA	DL9-40, C20, 6kA	DL9-40, D20, 6kA
		25	DL9-40, B25, 6kA	DL9-40, C25, 6kA	DL9-40, D25, 6kA
		32	DL9-40, B32, 6kA	DL9-40, C32, 6kA	DL9-40, D32, 6kA
	4500	40	DL9-40, B40, 6kA	DL9-40, C40, 6kA	DL9-40, D40, 6kA
		6	DL9-40, B6, 4.5kA	DL9-40, C6, 4.5kA	DL9-40, D6, 4.5kA
		10	DL9-40, B10, 4.5kA	DL9-40, C10, 4.5kA	DL9-40, D10, 4.5kA
		16	DL9-40, B16, 4.5kA	DL9-40, C16, 4.5kA	DL9-40, D16, 4.5kA
		20	DL9-40, B20, 4.5kA	DL9-40, C20, 4.5kA	DL9-40, D20, 4.5kA
		25	DL9-40, B25, 4.5kA	DL9-40, C25, 4.5kA	DL9-40, D25, 4.5kA
3000	32	DL9-40, B32, 4.5kA	DL9-40, C32, 4.5kA	DL9-40, D32, 4.5kA	
	40	DL9-40, B40, 4.5kA	DL9-40, C40, 4.5kA	DL9-40, D40, 4.5kA	
	6	DL9-40, B6, 3kA	DL9-40, C6, 3kA	DL9-40, D6, 3kA	
	10	DL9-40, B10, 3kA	DL9-40, C10, 3kA	DL9-40, D10, 3kA	
	16	DL9-40, B16, 3kA	DL9-40, C16, 3kA	DL9-40, D16, 3kA	
	20	DL9-40, B20, 3kA	DL9-40, C20, 3kA	DL9-40, D20, 3kA	
		25	DL9-40, B25, 3kA	DL9-40, C25, 3kA	DL9-40, D25, 3kA
		32	DL9-40, B32, 3kA	DL9-40, C32, 3kA	DL9-40, D32, 3kA
		40	DL9-40, B40, 3kA	DL9-40, C40, 3kA	DL9-40, D40, 3kA

B, C tripping curve

Ambient temperature and current rating curve



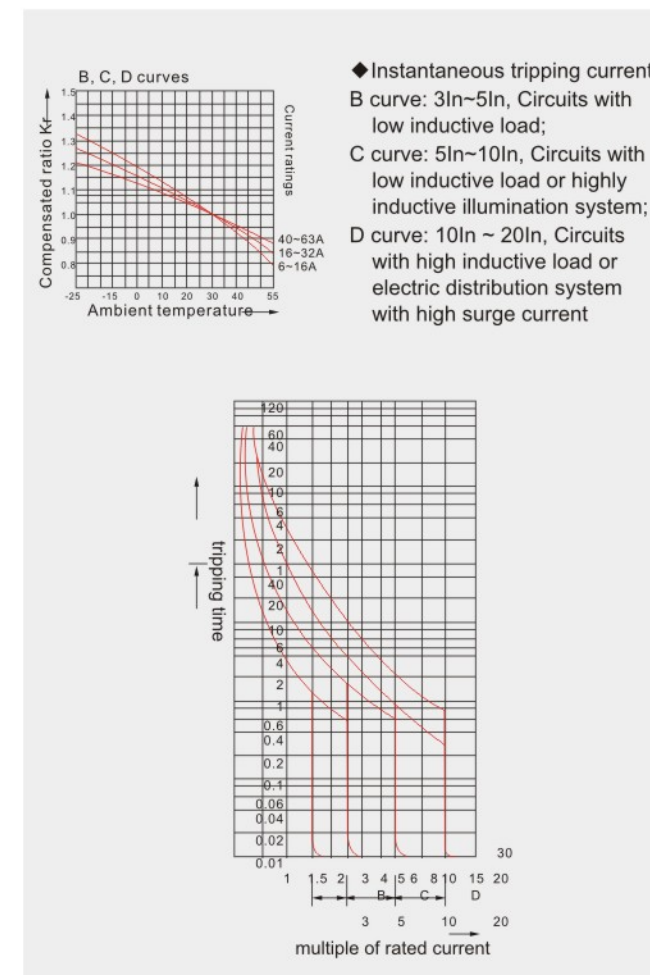
Din rail



DL7-63



B, C tripping curve(see graphics 1)



Technical data

SAA Approval NO.	130852
Standard	AS/NZ 61898 - 1
Poles	1, 1P+N, 2, 3, 3P+N, 4P
Magnetic tripping characteristics	B, C, D
Rated current	2, 4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63A
Rated short-circuit capacity(Icn):	10kA
Rated voltage	230/400V
Frequency	50/60
Maximum service voltage	264
Contact position indication	Yes
Energy limiting class:	3
Electrical Life:	>8000
Mechanical Life:	>20000
Connection terminal:	<input type="checkbox"/> Screw terminal <input type="checkbox"/> Pillar terminal with clamp
Connection capacity:	1~16mm
Installation:	<input type="checkbox"/> Symmetrical DIN rail 35mm <input type="checkbox"/> Panel mounting
Accessories:	<input type="checkbox"/> OF: Auxiliary contact <input type="checkbox"/> FB: Auxiliary alarm <input type="checkbox"/> QY: under/over voltage protector <input type="checkbox"/> FL: Shunt release

Miniature Circuit Breaker 10KA

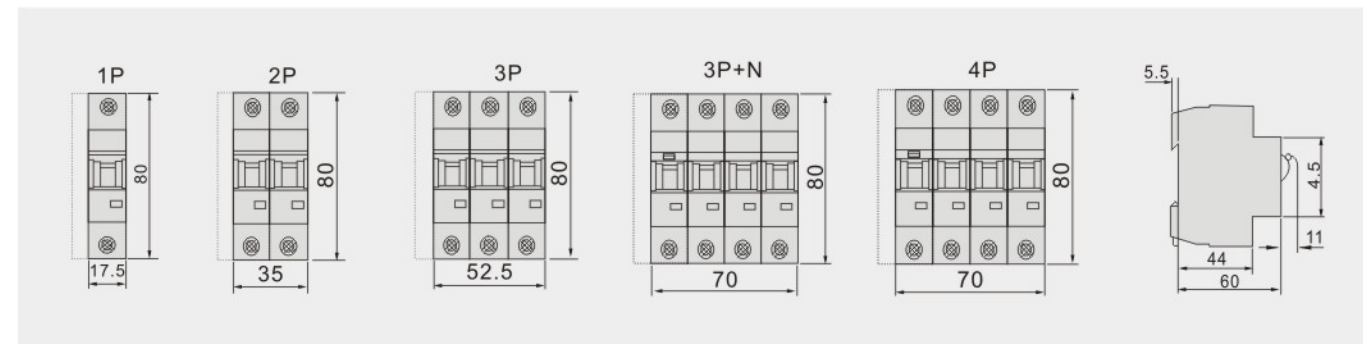


Miniature Circuit Breaker 6KA

DL7-63

Magnetic Tripping Characteristic	Breaking Capacity (A)	Rated Current (A)	Order No.		
			B curve	C curve	D curve
B,C,D curve 1P 2P 3P 4P	10000	6	DL7-63, B6, 10KA	DL7-63, C6, 10KA	DL7-63, D6, 10KA
		10	DL7-63, B10, 10KA	DL7-63, C10, 10KA	DL7-63, D10, 10KA
		16	DL7-63, B16, 10KA	DL7-63, C16, 10KA	DL7-63, D16, 10KA
		20	DL7-63, B20, 10KA	DL7-63, C20, 10KA	DL7-63, D20, 10KA
		25	DL7-63, B25, 10KA	DL7-63, C25, 10KA	DL7-63, D25, 10KA
		32	DL7-63, B32, 10KA	DL7-63, C32, 10KA	DL7-63, D32, 10KA
		40	DL7-63, B40, 10KA	DL7-63, C40, 10KA	DL7-63, D40, 10KA
		50	DL7-63, B50, 10KA	DL7-63, C50, 10KA	DL7-63, D50, 10KA
		63	DL7-63, B63, 10KA	DL7-63, C63, 10KA	DL7-63, D63, 10KA

Overall & installation dimensions

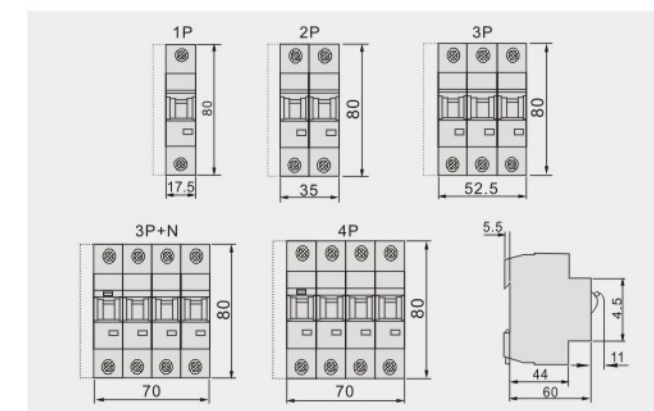


DL3-63



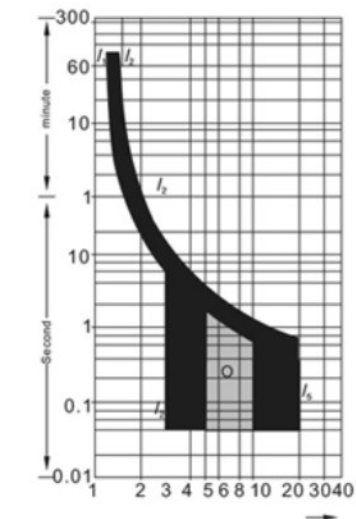
T=Thermal Trip
M=Magnetic Trip

Overall & installation	Dimensions		
	B	C	D
I ₂ (T ≥ 1h)	1.13×I _n	1.13×I _n	1.13×I _n
I ₂ (t < 1h)	1.45×I _n	1.45×I _n	1.45×I _n
I ₄ (t ≥ 0.1s)	3×I _n	5×I _n	10×I _n
I ₅ (t < 0.1s)	5×I _n	10×I _n	20×I _n



Technical data

- SAA Approval NO.: 142271
- Standard: AS/NZS60898.1:2004
- Poles: 1P, 2P, 3P, 4P
- Magnetic tripping characteristics: B, C, D
- Rated current: 6, 10, 16, 20, 25, 40, 50, 63
- Rated short-circuit capacity(I_{cn}): 6KA
- Rated voltage: 240/415V
- Frequency: 50/60HZ
- Maximum service voltage: 264
- Contact position indication: Yes
- Energy limiting class: 3
- Electrical Life: ≥ 8000 times make-break operation
- Mechanical Life: ≥ 20,000 times make break operation
- Connection terminal: Screw terminal
- Pillar terminal with clamp
- Connection capacity: 1~16mm
- Installation: symmetrical DIN rail 35mm
- Panel mounting
- Accessories: OF: Auxiliary contact
- FB: Auxiliary alarm
- QY: Under/Over voltage protector
- FL: shunt release



Magnetic Tripping Characteristic	Breaking Capacity (A)	Rated Current (A)	Order No.		
			B curve	C curve	D curve
B,C,D curve 1P 2P 3P 4P	6000	6	DL3-63, B6, 6KA	DL3-63, C6, 6KA	DL3-63, D6, 6KA
		10	DL3-63, B10, 6KA	DL3-63, C10, 6KA	DL3-63, D10, 6KA
		16	DL3-63, B16, 6KA	DL3-63, C16, 6KA	DL3-63, D16, 6KA
		20	DL3-63, B20, 6KA	DL3-63, C20, 6KA	DL3-63, D20, 6KA
		25	DL3-63, B25, 6KA	DL3-63, C25, 6KA	DL3-63, D25, 6KA
		32	DL3-63, B32, 6KA	DL3-63, C32, 6KA	DL3-63, D32, 6KA
		40	DL3-63, B40, 6KA	DL3-63, C40, 6KA	DL3-63, D40, 6KA
		50	DL3-63, B50, 6KA	DL3-63, C50, 6KA	DL3-63, D50, 6KA
		63	DL3-63, B63, 6KA	DL3-63, C63, 6KA	DL3-63, D63, 6KA

Miniature Circuit Breaker 10KA



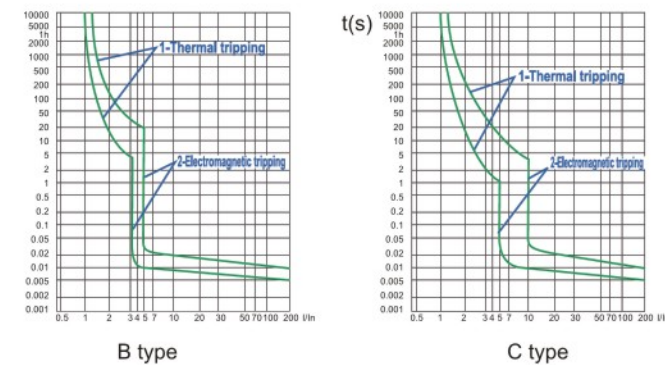
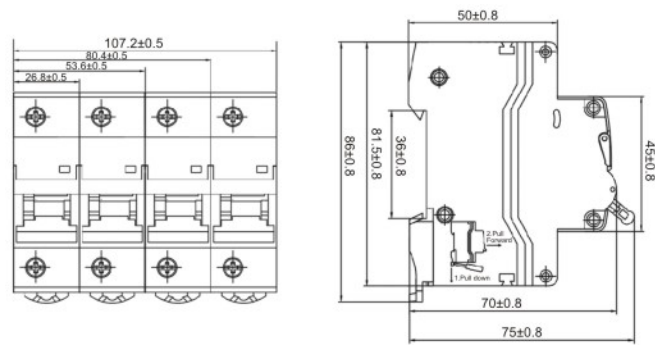
Main Switch / Isolator

FDM16-125



Technical data

- SAA Approval NO.: 142324
- Standard: AS60947.2:2005
- AS60947.1:2004
- Breaking capacity: 10KA
- Rated current: 32, 40, 50, 63, 80, 100, 125A
- Rated voltage: 1P 230V
2, 3, 4P 400V
- Frequency: 50/60HZ
- Characteristic: thermal operating limit: (1.13-1.45)xIn
- Magnetic operating: C: (5-10) xIn
D: (10-20) xIn
- Poles: 1P, 2P, 3P, 4P
- Type of trip: Thermal/Magnetic release
- Installation: DIN rail 35mm



Magnetic Tripping Characteristic	Breaking Capacity (A)	Rated Current (A)	Order No.		
			B curve	C curve	D curve
B,C,D curve	10000	32	FDM16-32, B32, 10KA	FDM16-32, C32, 10KA	FDM16-32, D32, 10KA
		40	FDM16-40, B40, 10KA	FDM16-40, C40, 10KA	FDM16-40, D40, 10KA
		50	FDM16-50, B50, 10KA	FDM16-50, C50, 10KA	FDM16-50, D50, 10KA
		63	FDM16-63, B63, 10KA	FDM16-63, C63, 10KA	FDM16-63, D63, 10KA
		80	FDM16-80, B80, 10KA	FDM16-80, C80, 10KA	FDM16-80, D80, 10KA
		100	FDM16-32, B100, 10KA	FDM16-32, C100, 10KA	FDM16-32, D100, 10KA
		125	FDM16-32, B125, 10KA	FDM16-32, C125, 10KA	FDM16-32, D125, 10KA

FDD7-100



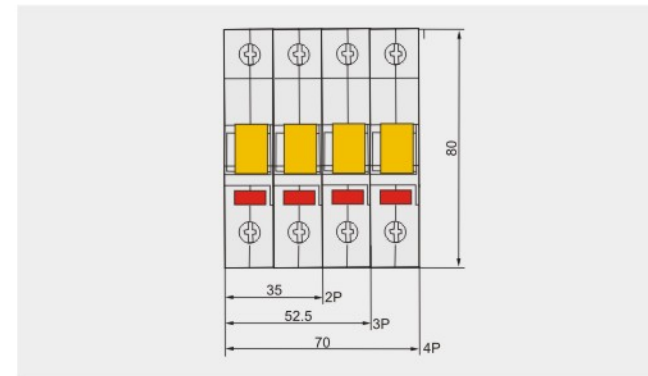
Technical data

- Standard: IEC60947-3
- Rated current: 100 A
- Rated voltage: 50 Hz, 230V/400V
- Rated operating current: 32A, 63A, 100A
- Rated short time withstand capacity: 25 KA(connect 100A fuse protector)
- Pole: 1P, 2P, 3P, 4P
- Electric life: ≥1500 times
- Mechanical life: ≥1000 times
- Using type: AC-22
- Protection class: IP 20
- Operating temperature: -5 + 40°C
- Altitude: ≤ 2000m
- Pollution level: grade 3
- Installation: IEC standard, DIN rail 35mm
- Installation: the main switch be vertically installed, handle up means current connection.
- Place: no obvious or frequent vibration or impact

Application

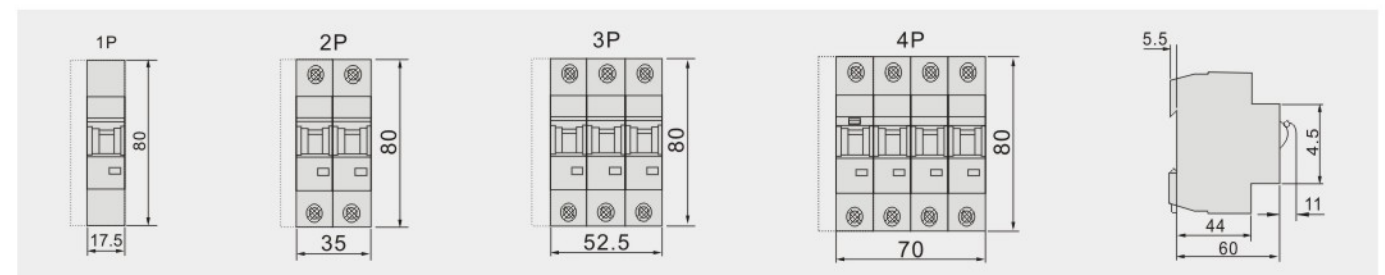
It is a main switch only, without overload protection. It works to connect to cut off the load circuit. When it works as main switch, it may also trip when some of it's sub-circuit faulty. In such situation, it functions as main switch to function as earlier circuit protection.

Overall & installation dimensions



Magnetic Tripping Characteristic	Rated Current (A)	Order No.
1P	32	FDD7-100,32
	40	FDD7-100,40
	50	FDD7-100,50
	63	FDD7-100,63
	80	FDD7-100,80
	100	FDD7-100,100

Overall & installation dimensions



Residual Current Circuit Breaker 6KA



Residual Current Circuit Breaker 6KA

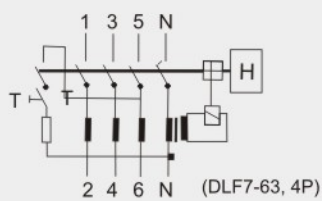
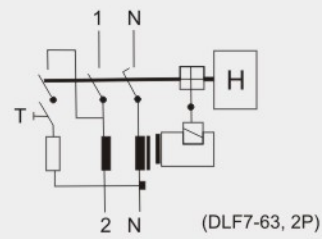
DLF7-63



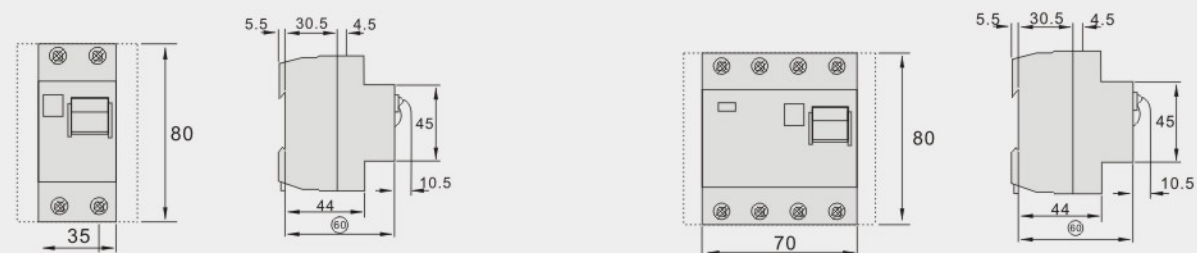
Technical data

SAA Approval NO.	130867
Standard	AS/NZS61008.1:2004
Poles	2P, 4P
Rated tripping current(mA):	30, 100, 300
Rated current	6,10,16,25,32, 40, 50, 63A
Residual current characteristics:	AC / A type
Rated voltage	230/400V
Frequency	50/60
Mode:	electro-magnetic type
Contact position indication	Yes
Energy limiting class:	3
Electrical Life:	>4000
Mechanical Life:	>20000
Connection terminal:	<ul style="list-style-type: none"> ■ Screw terminal ■ Pillar terminal with clamp
Connection capacity:	1~16mm
Installation:	<ul style="list-style-type: none"> ■ Symmetrical DIN rail 35mm ■ Panel mounting
Accessories:	<ul style="list-style-type: none"> ■ OF:Auxiliary contact ■ FB:Auxiliary alarm ■ QY:under/over volage protector ■ FL:Shunt release

Electrical diagram



Overall & installation dimensions



Cat. No.	Poles (P)	Rated Current (A)	Residual Current (mA)	Type	
				A type	AC type
A, AC Type 2P, 4P	2P	16	10	DLF7-1610A2	DLF7-1610AC2
			30	DLF7-1630A2	DLF7-1630AC2
			100	DLF7-16100A2	DLF7-16100AC2
		25	10	DLF7-2510A2	DLF7-2510AC2
			30	DLF7-2530A2	DLF7-2530AC2
			100	DLF7-25100A2	DLF7-25100AC2
		32	10	DLF7-3210A2	DLF7-3210AC2
			30	DLF7-3230A2	DLF7-3230AC2
			100	DLF7-32100A2	DLF7-32100AC2
		40	10	DLF7-4010A2	DLF7-4010AC2
			30	DLF7-4030A2	DLF7-4030AC2
			100	DLF7-40100A2	DLF7-40100AC2
	50	10	DLF7-5010A2	DLF7-5010AC2	
		30	DLF7-5030A2	DLF7-5030AC2	
		100	DLF7-50100A2	DLF7-50100AC2	
	63	10	DLF7-6310A2	DLF7-6310AC2	
		30	DLF7-6330A2	DLF7-6330AC2	
		100	DLF7-63100A2	DLF7-63100AC2	
	4P	16	10	DLF7-1610A4	DLF7-1610AC4
			30	DLF7-1630A4	DLF7-1630AC4
			100	DLF7-16100A4	DLF7-16100AC4
		25	10	DLF7-2510A4	DLF7-2510AC4
			30	DLF7-2530A4	DLF7-2530AC4
			100	DLF7-25100A4	DLF7-25100AC4
32		10	DLF7-3210A4	DLF7-3210AC4	
		30	DLF7-3230A4	DLF7-3230AC4	
		100	DLF7-32100A4	DLF7-32100AC4	
40		10	DLF7-4010A4	DLF7-4010AC4	
		30	DLF7-4030A4	DLF7-4030AC4	
		100	DLF7-40100A4	DLF7-40100AC4	
50	10	DLF7-5010A4	DLF7-5010AC4		
	30	DLF7-5030A4	DLF7-5030AC4		
	100	DLF7-50100A4	DLF7-50100AC4		
63	10	DLF7-6310A4	DLF7-6310AC4		
	30	DLF7-6330A4	DLF7-6330AC4		
	100	DLF7-63100A4	DLF7-63100AC4		

DR6-40



INNOVATION

RCBO

- Width = 18mm
- Breaking Capacity = 6000A
- Approval:

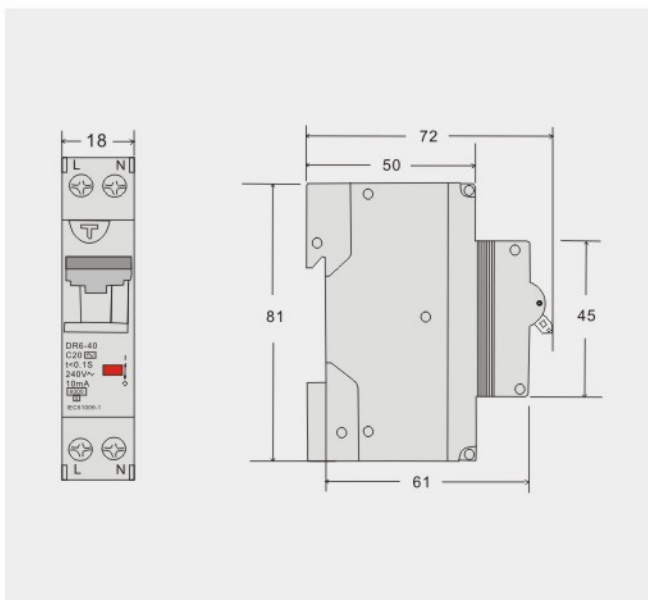
Technical data

ESV Approval NO.	130696
Standard	AS/NZS61009.1:2004
Magnetic tripping characteristics	B, C
Residual tripping characteristics	A, AC
Rated current(A)	6,10,16,25,32,40
Rated residual current	10mA, 30 mA, 100mA
Calibration temperature	30°C
Rated voltage 1P	240V
Frequency	50/60
Tripping Duration:	Instaneous<0.1s
Power supply	Top or bottom
Selectivity class	3
Short circuit capacity	6000&4500A
Isolation application (IEC 60947-2)	Yes
Insulation resistance (Mohm)	1,000
Insulation voltage (V)	500
Endurance (operations) electrical	>6,000
mechanical	>10,000
Protection degree outside	IP20
Self extinguishing degree (UL 94)	V2
Tropicalisation (IEC 60068-2)	+55°C/95% RH
Operating temperature	-5/+55°C
Storage temperature	-25/+70°C
Terminal capacity (top & bottom) min / max	1-16mm
Terminal torque (top / bottom)	3
Busbar systems	Yes
Accessories	No
Dimensions (mm)	72(H)81(L)18(W)
Weight (g)	105

Features & advantages

- The slimest 6kA RCBO in this world.the newest design compared with competitors.
- Genuine 6kA fault level declared after hundreds of seriously passed test. Suit both residential and commercial applications.
- Top and bottom line and load compatible newest design for ease of installation.
- Two pole safety feature allows switching of both Active and Neutral contacts. Active contacts always connect later and break earlier;
- Single module is ideal to save valuable switchboard space.

Overall & installation dimensions



Magnetic Tripping Characteristic	Breaking Capacity (A)	Rated Current (A)	Residual Current (mA)	Cat. No.	
				A type	AC type
B, C curve	6000	6	10	DR6-0610AN	DR6-0610ACN
			30	DR6-0630AN	DR6-0630ACN
			100	DR6-06100AN	DR6-06100ACN
		10	10	DR6-1010AN	DR6-1010ACN
			30	DR6-1030AN	DR6-1030ACN
			100	DR6-10100AN	DR6-10100ACN
		16	10	DR6-1610AN	DR6-1610ACN
			30	DR6-1630AN	DR6-1630ACN
			100	DR6-16100AN	DR6-16100ACN
		20	10	DR6-2010AN	DR6-2010ACN
			30	DR6-2030AN	DR6-2030ACN
			100	DR6-20100AN	DR6-20100ACN
	4500	6	10	DR6-0610AL	DR6-0610ACL
			30	DR6-0630AL	DR6-0630ACL
			100	DR6-06100AL	DR6-06100ACL
		10	10	DR6-1010AL	DR6-1010ACL
			30	DR6-1030AL	DR6-1030ACL
			100	DR6-10100AL	DR6-10100ACL
		16	10	DR6-1610AL	DR6-1610ACL
			30	DR6-1630AL	DR6-1630ACL
			100	DR6-16100AL	DR6-16100ACL
		20	10	DR6-2010AL	DR6-2010ACL
			30	DR6-2030AL	DR6-2030ACL
			100	DR6-20100AL	DR6-20100ACL
25	10	DR6-2510AL	DR6-2510ACL		
	30	DR6-2530AL	DR6-2530ACL		
	100	DR6-25100AL	DR6-25100ACL		
32	10	DR6-3210AL	DR6-3210ACL		
	30	DR6-3230AL	DR6-3230ACL		
	100	DR6-32100AL	DR6-32100ACL		
40	10	DR6-4010AL	DR6-4010ACL		
	30	DR6-4030AL	DR6-4030ACL		
	100	DR6-40100AL	DR6-40100ACL		

Single Pole (1P+N) RCBO 6KA&4.5KA

DL7NL-40



DL's newly released 6kA RCBO is based on 10 years committed R&D. The whole series cover 3kA, 4.5kA and this latest 6kA RCBO.

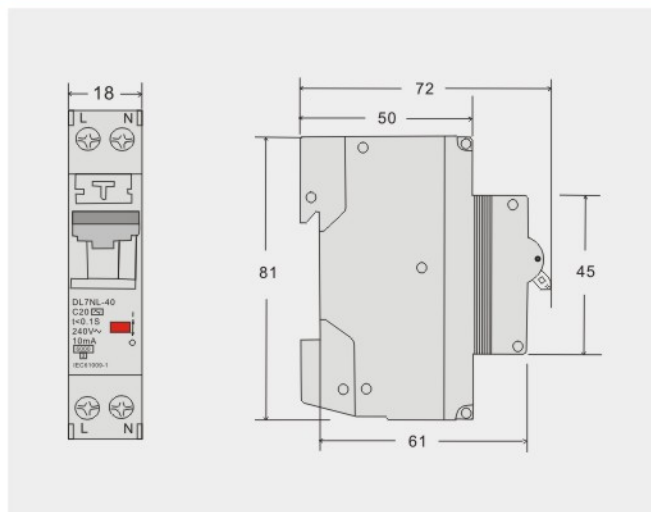
Technical data

SAA Approval NO.	120946
Standard	AS/NZS61009.1:2004
Magnetic tripping characteristics	B, C
Residual tripping characteristics	A, AC
Rated current(A)	6,10,16,25,32,40
Rated residual current	10mA,30 mA,100mA
Calibration temperature	30°C
Rated voltage 1P	240V
Frequency	50/60
Tripping Duration:	Instaneous<0.1s
Power supply	Top or bottom
Selectivity class	3
Short circuit capacity	6000&4500A
Isolation application (IEC 60947-2)	Yes
Insulation resistance (Mohm)	1,000
Insulation voltage (V)	500
Endurance (operations) electrical	>6,000
mechanical	>10,000
Protection degree outside	IP20
Self extinguishing degree (UL 94)	V2
Tropicalisation (IEC 60068-2)	+55°C/95% RH
Operating temperature	-5/+55°C
Storage temperature	-25/+70°C
Terminal capacity (top & bottom) min/max	1-16mm
Terminal torque(top / bottom)	3
Busbar systems	Yes
Accessories	No
Dimensions (mm)	72(H)81(L)18(W)
Weight (g)	105

Features & advantages

- 1.Top and bottom line and load compatiblenewest design for ease of installation.
- 2.Two pole safety feature allows switching of both Active and Neutral contacts. Active contacts always connect later and break earlier;
- 3.Single module is ideal to save valuable switchboard space.

Overall & installation dimensions



Single Pole (1P+N) RCBO 6KA&4.5KA

Magnetic Tripping Characteristic	Breaking Capacity (A)	Rated Current (A)	Residual Current (mA)	Cat. No.	
				A type	AC type
B, C curve	6000	6	10	DL7NL-0610AN	DL7NL-0610ACN
			30	DL7NL-0630AN	DL7NL-0630ACN
			100	DL7NL-06100AN	DL7NL-06100ACN
		10	10	DL7NL-1010AN	DL7NL-1010ACN
			30	DL7NL-1030AN	DL7NL-1030ACN
			100	DL7NL-10100AN	DL7NL-10100ACN
		16	10	DL7NL-1610AN	DL7NL-1610ACN
			30	DL7NL-1630AN	DL7NL-1630ACN
			100	DL7NL-16100AN	DL7NL-16100ACN
		20	10	DL7NL-2010AN	DL7NL-2010ACN
			30	DL7NL-2030AN	DL7NL-2030ACN
			100	DL7NL-20100AN	DL7NL-20100ACN
	4500	6	10	DL7NL-0610AL	DL7NL-0610ACL
			30	DL7NL-0630AL	DL7NL-0630ACL
			100	DL7NL-06100AL	DL7NL-06100ACL
		10	10	DL7NL-1010AL	DL7NL-1010ACL
			30	DL7NL-1030AL	DL7NL-1030ACL
			100	DL7NL-10100AL	DL7NL-10100ACL
		16	10	DL7NL-1610AL	DL7NL-1610ACL
			30	DL7NL-1630AL	DL7NL-1630ACL
			100	DL7NL-16100AL	DL7NL-16100ACL
		20	10	DL7NL-2010AL	DL7NL-2010ACL
			30	DL7NL-2030AL	DL7NL-2030ACL
			100	DL7NL-20100AL	DL7NL-20100ACL
25	10	DL7NL-2510AL	DL7NL-2510ACL		
	30	DL7NL-2530AL	DL7NL-2530ACL		
	100	DL7NL-25100AL	DL7NL-25100ACL		
32	10	DL7NL-3210AL	DL7NL-3210ACL		
	30	DL7NL-3230AL	DL7NL-3230ACL		
	100	DL7NL-32100AL	DL7NL-32100ACL		
40	10	DL7NL-4010AL	DL7NL-4010ACL		
	30	DL7NL-4030AL	DL7NL-4030ACL		
	100	DL7NL-40100AL	DL7NL-40100ACL		

Single Pole (1P+N) RCBO 3KA



Single Pole (1P+N) RCBO 3KA

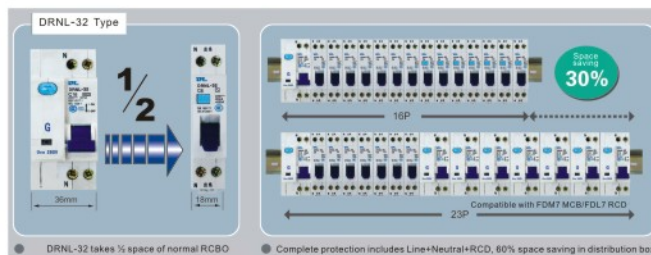
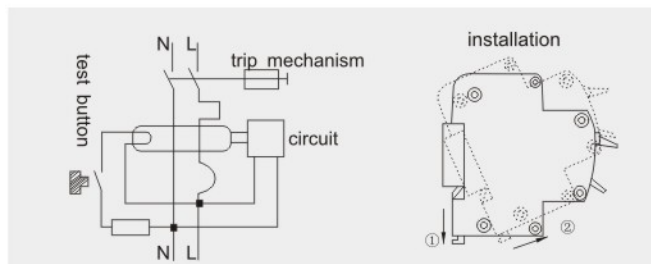
DRNL-32



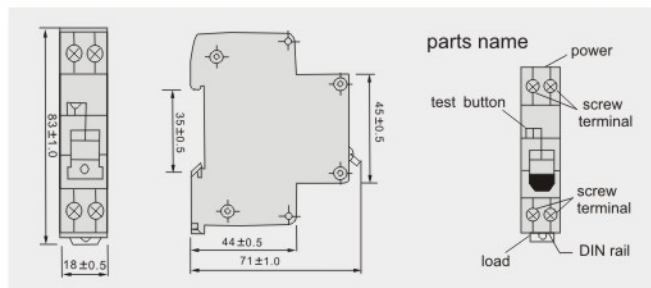
Technical data

SAA Approval NO.	122389
Standard	AS/NZS61009.1:2004
Magnetic tripping characteristics	B,C
Residual tripping characteristics	AC
Rated current	6, 10, 16, 20, 25, 32
Rated residual current	30mA, 100mA
Calibration temperature	30°C
Rated voltage 1P	240V
Frequency	50/60
Tripping Duration:	Instantaneous < 0.1s
Power supply	Line & Load
Selectivity class	3
Short circuit capacity	3000A
Isolation application (IEC 60947-2)	Yes
Insulation resistance (Mohm)	1,000
Insulation voltage (V)	500
Endurance (operations) electrical	>6,000
mechanical	>10,000
Protection degree outside	IP20
Self extinguishing degree (UL 94)	V2
Tropicalisation (IEC 60068-2)	+55°C/95% RH
Operating temperature	-5/+55°C
Storage temperature	-25/+70°C
Terminal capacity (top & bottom) min/max	1-16mm
Terminal torque (top / bottom)	3
Busbar systems	No
Accessories	No
Dimensions (mm)	71(H)81(L)18(W)
Weight (g)	85

Electrical diagram & installation



Overall & installation dimensions



Magnetic Tripping Characteristic	Breaking Capacity (A)	Rated Current (A)	Residual Current (mA)	Cat. No.	
				A type	AC type
C curve	3000	6	30	DRNL-0630AD	DRNL-0630ACD
			100	DRNL-06100AD	DRNL-06100ACD
		10	30	DRNL-1030AD	DRNL-1030ACD
			100	DRNL-10100AD	DRNL-10100ACD
		16	30	DRNL-1630AD	DRNL-1630ACD
			100	DRNL-16100AD	DRNL-16100ACD
		20	30	DRNL-2030AD	DRNL-2030ACD
			100	DRNL-20100AD	DRNL-20100ACD
		25	30	DRNL-2530AD	DRNL-2530ACD
			100	DRNL-25100AD	DRNL-25100ACD
		32	30	DRNL-3230AD	DRNL-3230ACD
			100	DRNL-32100AD	DRNL-32100ACD

FDR16-40



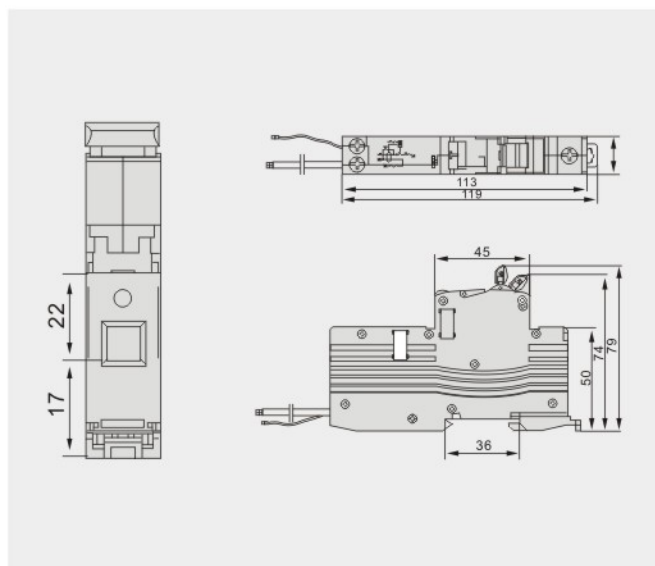
Technical data

SAA Approval NO.	140979
Standard	AS/NZS61009.1:2001
Magnetic tripping characteristics	B, C
Residual tripping characteristics	AC
Rated current(A)	6,10,16,20,25,32,40
Rated residual current(mA)	30, 100,300
Calibration temperature	30°C
Rated voltage 1P	240V
Frequency	50/60
Maximum service voltage	264
Tripping duration:	Instaneous<0.1s
Power supply	Line & Load
Selectivity class	3
Residual making and breaking capacity	2000A
Short circuit capacity	6000A, 10000A
Isolation application (IEC 60947-2)	Yes
Insulation resistance (Mohm)	1,000
Insulation voltage (V)	500
Endurance (operations) electrical	>5,000
mechanical	>10,000
Protection degree outside	IP20
Self extinguishing degree (UL 94)	V2
Tropicalisation (IEC 60068-2)	+55°C/95% RH
Operating temperature	-5/+55°C
Storage temperature	-25/+70°C
Terminal capacity (top & bottom) min / max	1-16mm
Terminal torque (top / bottom)	3
Busbar systems	Yes
Accessories	No
Dimensions (mm)	72(H)107(L)18(W)
Weight (g)	125

Construction and feature

- Provides protection against earth fault / leakage current and function of isolation
- Provides protection against over-voltage
- Applicable to terminal and pin/fork type busbar connection
- Contact position indication
- Fire resistant plastic parts endures abnormal heating and strong impact
- Automatically disconnect the circuit when earth fault / leakage current occurs and exceeds the rated sensitivity.
- Independent of power supply and line voltage and free from external interference, voltage fluctuation.

Overall & installation dimensions



Magnetic Tripping Characteristic	Breaking Capacity (A)	Rated Current (A)	Residual Current (mA)	Cat. No.		
				A type	AC type	
B, C curve	6000	6	10	FDR16-0610AN	FDR16-0610ACN	
			30	FDR16-0630AN	FDR16-0630ACN	
			100	FDR16-06100AN	FDR16-06100ACN	
		10	10	FDR16-1010AN	FDR16-1010ACN	
			30	FDR16-1030AN	FDR16-1030ACN	
			100	FDR16-10100AN	FDR16-10100ACN	
		16	10	FDR16-1610AN	FDR16-1610ACN	
			30	FDR16-1630AN	FDR16-1630ACN	
			100	FDR16-16100AN	FDR16-16100ACN	
		20	10	FDR16-2010AN	FDR16-2010ACN	
			30	FDR16-2030AN	FDR16-2030ACN	
			100	FDR16-20100AN	FDR16-20100ACN	
	25	10	FDR16-2510AN	FDR16-2510ACN		
		30	FDR16-2530AN	FDR16-2530ACN		
		100	FDR16-25100AN	FDR16-25100ACN		
	32	10	FDR16-3210AN	FDR16-3210ACN		
		30	FDR16-3230AN	FDR16-3230ACN		
		100	FDR16-32100AN	FDR16-32100ACN		
	40	10	FDR16-4010AN	FDR16-4010ACN		
		30	FDR16-40330AN	FDR16-40330ACN		
		100	FDR16-40100AN	FDR16-40100ACN		
	10000	6000	6	30	FDR16-0630AH	FDR16-0630ACH
			10	30	FDR16-1030AH	FDR16-1030ACH
			16	30	FDR16-1630AH	FDR16-1630ACH
20			30	FDR16-2030AH	FDR16-2030ACH	
25			30	FDR16-2530AH	FDR16-2530ACH	
32			30	FDR16-3230AH	FDR16-3230ACH	
40			30	FDR16-4030AH	FDR16-4030ACH	

RCBO (MCB+RCD) 10KA



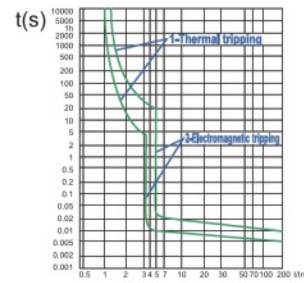
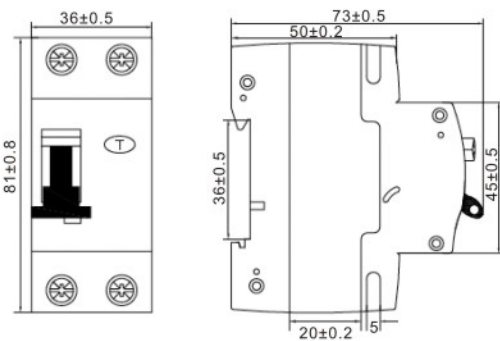
RCBO (MCB+RCD) 6KA

DR7-40N

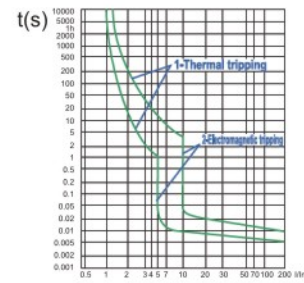


Technical data

- SAA Approval NO.: 140978
- Standard: AS/NZS61009.1:2001
- Breaking capacity: 10KA
- Rated current: 3, 6, 10, 16, 20, 25, 32, 40A
- Operating I Δ n: 10, 30, 100, 300mA
- Characteristic: B, C
- Rated residual current operated making & breaking capacity: 500A
- Rated residual non-operated current: 0.5 I Δ n
- Poles: 1P+N
- Rated voltage: 230V
- Ambient temperature: -25+45°C. Max 95% humidity
- Residual current off-time: \leq 0.1 sec
- Protection degree: IP20
- Installation: DIN rail 35mm



B type



C type

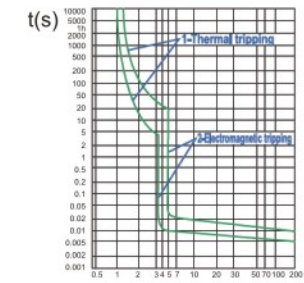
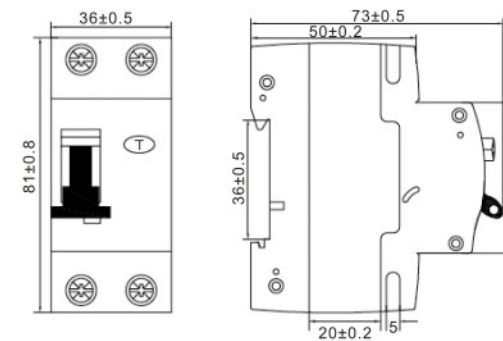
Magnetic Tripping Characteristic	Breaking Capacity (A)	Rated Current (A)	Residual Current (mA)	Cat. No.		
				A Type	AC Type	
B, C curve	10000	6	10	DR7-0610AN	DR7-0610ACN	
			30	DR7-0630AN	DR7-0630ACN	
			100	DR7-06100AN	DR7-06100ACN	
			10	10	DR7-1010AN	DR7-1010ACN
				30	DR7-1030AN	DR7-1030ACN
				100	DR7-10100AN	DR7-10100ACN
		16	10	DR7-1610AN	DR7-1610ACN	
			30	DR7-1630AN	DR7-1630ACN	
			100	DR7-16100AN	DR7-16100ACN	
		20	10	DR7-2010AN	DR7-2010ACN	
			30	DR7-2030AN	DR7-2030ACN	
			100	DR7-20100AN	DR7-20100ACN	
		25	10	DR7-2510AN	DR7-2510ACN	
			30	DR7-2530AN	DR7-2530ACN	
			100	DR7-25100AN	DR7-25100ACN	
		32	10	DR7-3210AN	DR7-3210ACN	
			30	DR7-3230AN	DR7-3230ACN	
			100	DR7-32100AN	DR7-32100ACN	
		40	10	DR7-4010AN	DR7-4010ACN	
			30	DR7-40330AN	DR7-40330ACN	
			100	DR7-40100AN	DR7-40100ACN	

DL6-40N

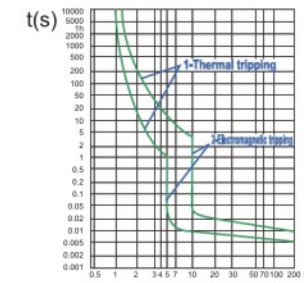


Technical data

- SAA Approval NO.: 142429
- Standard: AS/NZS61009.1:2001
- Breaking capacity: 6KA
- Rated current: 3, 6, 10, 16, 20, 25, 32, 40A
- Operating I Δ n: 10, 30, 100, 300mA
- Characteristic: B, C
- Rated residual current operated making & breaking capacity: 500A
- Rated residual non-operated current: 0.5 I Δ n
- Poles: 1P+N
- Rated voltage: 230V
- Ambient temperature: -25+45°C. Max 95% humidity
- Residual current off-time: \leq 0.1 sec
- Protection degree: IP20
- Installation: DIN rail 35mm



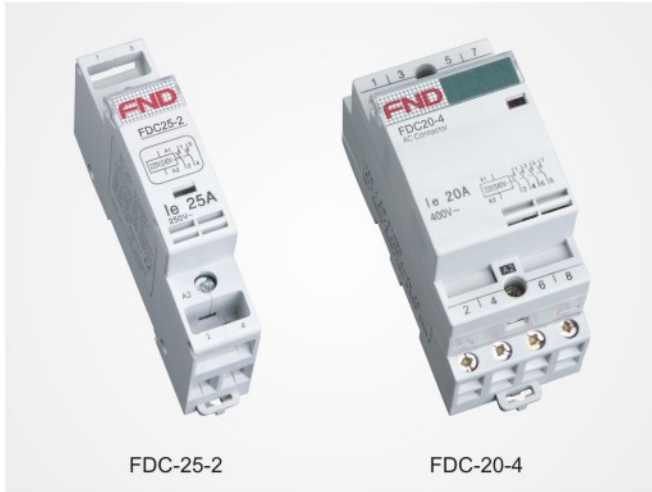
B type



C type

Magnetic Tripping Characteristic	Breaking Capacity (A)	Rated Current (A)	Residual Current (mA)	Cat. No.		
				A Type	AC Type	
B, C curve	6000	6	30	DL6-0630AN	DL6-0630ACN	
			100	DL6-06100AN	DL6-06100ACN	
			300	DL6-06300AN	DL6-06300ACN	
			10	30	DL6-1030AN	DL6-1030ACN
				100	DL6-10100AN	DL6-10100ACN
				300	DL6-10300AN	DL6-10300ACN
		16	30	DL6-1630AN	DL6-1630ACN	
			100	DL6-16100AN	DL6-16100ACN	
			300	DL6-16300AN	DL6-16300ACN	
		20	30	DL6-2030AN	DL6-2030ACN	
			100	DL6-20100AN	DL6-20100ACN	
			300	DL6-20300AN	DL6-20300ACN	
		25	30	DL6-2530AN	DL6-2530ACN	
			100	DL6-25100AN	DL6-25100ACN	
			300	DL6-25300AN	DL6-25300ACN	
		32	30	DL6-3230AN	DL6-3230ACN	
			100	DL6-32100AN	DL6-32100ACN	
			300	DL6-32300AN	DL6-32300ACN	
		40	30	DL6-4030AN	DL6-4030ACN	
			100	DL6-403100AN	DL6-403100ACN	
			300	DL6-40300AN	DL6-40300ACN	

FDC16



Modular Contactor

Poles	Rated Current	Contact	Order Code
2P	10A	1NO+1NC	FDC16-2-1011
	10A	2NO	FDC16-2-1020
	16A	1NO+1NC	FDC16-2-1611
	16A	2NO	FDC16-2-1620
	20A	1NO+1NC	FDC16-2-2011
	20A	2NO	FDC16-2-2020
	25A	1NO+1NC	FDC16-2-2511
	25A	2NO	FDC16-2-2520
4P	10A	2NO+2NC	FDC16-4-1022
	10A	3NO+1NC	FDC16-4-1031
	10A	4NO	FDC16-4-1040
	10A	4NC	FDC16-4-1004
	16A	2NO+2NC	FDC16-4-1622
	16A	3NO+1NC	FDC16-4-1631
	16A	4NO	FDC16-4-1640
	16A	4NC	FDC16-4-1604
	20A	2NO+2NC	FDC16-4-2022
	20A	3NO+1NC	FDC16-4-2031
	20A	4NO	FDC16-4-2040
	20A	4NC	FDC16-4-2004
	25A	2NO+2NC	FDC16-4-2522
	25A	3NO+1NC	FDC16-4-2531
	25A	4NO	FDC16-4-2540
	25A	4NC	FDC16-4-2504

Construction and Feature

- Compact and modular design
- Electro-magnetic mechanism free of noise
- Contact position indication
- Big contact capacity and long endurance

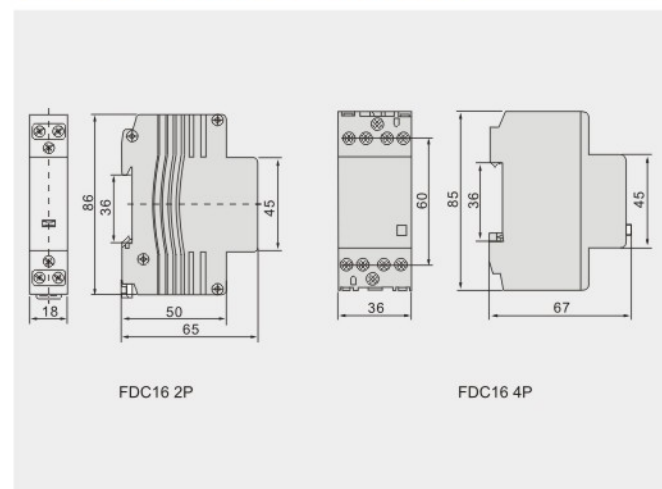
Application

FDC16 modular contactor is applicable to alternative circuit with rated voltage up to 400V, rated current up to 24A and rated frequency 50/60Hz. The product is used for remote switching and controlling of power circuit.

Technical Data

- Power circuit
- Rated current: 10,16,20,25A
- Rated voltage:
 - 24V/230V 2pole
 - 24V/230V 4pole
- Rated frequency: 50/60Hz
- Remote control circuit(coil)
- Rated voltage:230V:-15~+6%
- Detailed specifications:
- Rated frequency: 50/60Hz
- Mechanical endurance: 100,000 cycles
- Electrical endurance: 30,000 cycles
- Ambient temperature: -5°C~+60°C
- Connection terminal: pillar terminal with clamp
- Installation:
 - On symmetrical din rail
 - Panel mounting

Overall & installation dimensions



FDT16-D/M



Technical Data

- Rated voltage: 230V~
- Rated frequency: 50Hz
- Consumption: 1VA
- Contact capacity: 16A 250V AC(COS φ=1)
- Electrical endurance: 10⁵ cycles
- Mechanical endurance: 10⁷ cycles
- Ambient temperature: -20°C~+50°C
- Connection terminal: pillar terminal with clamp
- Installation:
 - On symmetrical DIN rail
 - Panel mounting

FDT16-D timer switch

- Type:electronic time delay
- Time setting range: 20 minutes
- Min.setting interval: 5 minutes
- Slide switch: manual / automatic
- Controlled lighting load:
 - Incandescent lamp: 2300W
 - Halogen lamp: 2300W
 - Fluorescent lamp load with electronic ballast: 800W
- Switching: immediae reset

FDT16-M timer switch

- Type: electromechanical type with time delay
- Time setting range: 7 minutes
- Min.setting interval: 30 seconds
- Toggle switch: manual / automatic
- Controlled lighting load:
 - Incandescent lamp: 2300W
 - Halogen lamp: 2300W
- Fluorescent lamp:
 - Uncompensated 2300w
 - Compensated in series: 2300w
 - Compensated in parallel: 1300w
- Switching: reset after 30s

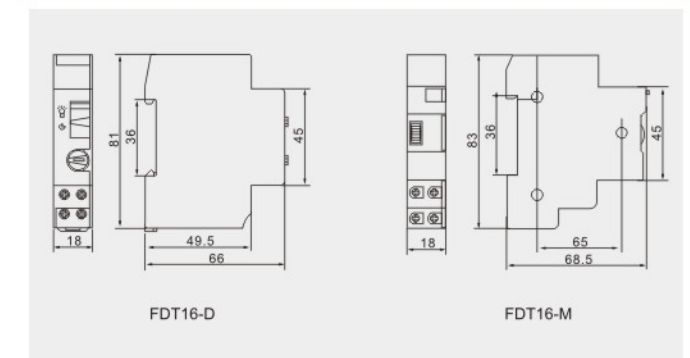
Construction and Feature

- Suitable to control wide range lightings include incandescent lamp, halogen lamp and fluorescent lamp
- Simple time setting
- With time delay
- Extremely compact and modular size

Application

The time switch, applicable to circuit with rated voltage 230V AC and rated current 16A, “ opens” after a predetermined time from actuation.

Overall & installation dimensions



FDT16-161N/Y



FDT16-161N/Y

Technical Data

- Rated voltage: 230V AC
- Rated frequency: 50/60Hz
- Consumption: 2.5VA
- Contact: 1 NO
- Contact capacity:
 - 16A/250V AC(COS φ =1)
 - 4A/250V AC(COS φ =0.6)
- Electrical endurance: 10 cycles
- Mechanical endurance: 10 cycles
- 24 hours or 7 days program
- 96 segments
- Min. programmable interval: 15 minutes
- Ambient temperature: -10°C~+50°C
- Connection terminal: pillar terminal with clamp
- Connection capacity: rigid conductor 6mm²
- Installation:
 - On symmetrical DIN rail
 - Panel mounting

Construction and Feature

- Available with or without power reserve
- 24 hour dial with 15 min segments
- 7 days dial with 2 hours segments
- Permanent ON/OFF switch
- Switching status indication

Application

Switches “ ON” and “ OFF” automatically following a pre-determined program. The product is suitable in use for domestic, commercial and industrial installations.

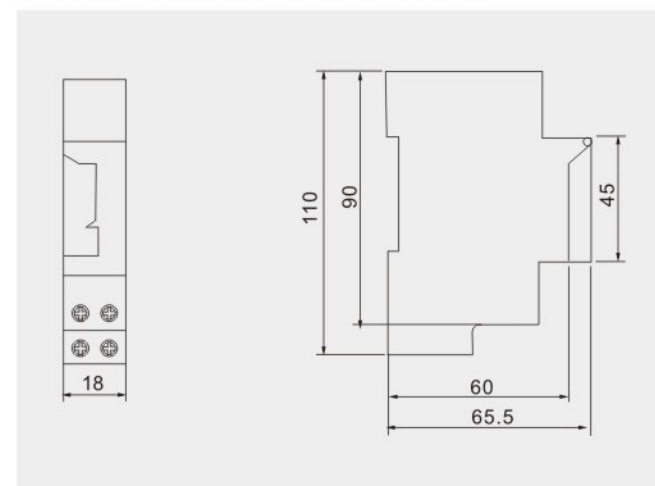
FDT16-161N Synchronous timer switch

- Drive: synchronous motor
- Frequency: 50/60Hz

FDT16-161Y Quartz timer switch with power reserve

- Drive: quartz-controlled motor
- Frequency: 50/60Hz
- Accuracy: with in ±1s per day at 20°C
- Reserve: 70 hours

Overall & installation dimensions



FDT16-16D



FDT16-16D

Technical Data

- Type: electronic with LCD display
- Rated voltage: 230V AC
- Rated frequency: 50/60Hz
- Contact: 1 NO+1 NC
- Consumption: maximum 4VA
- Contact capacity:
 - 16A/250V AC(COS φ =1)
 - 2.5A/250V AC(COS φ =0.6)
- Electrical endurance: 10⁶ cycles
- Mechanical endurance: 10⁷ cycles
- Time basis: quartz
- 24 hours + week program
- Working precision: ≤2 sec/day (25°C)
- Min. programmable interval: 1 minutes
- Power reserve: min.15 days
- Ambient temperature: -10~40°C
- Humidity: 35-85% RH
- Connection terminal: pillar terminal with clamp
- Connection capacity: rigid conductor 6mm²
- Installation:
 - On symmetrical DIN rail
 - Panel mounting

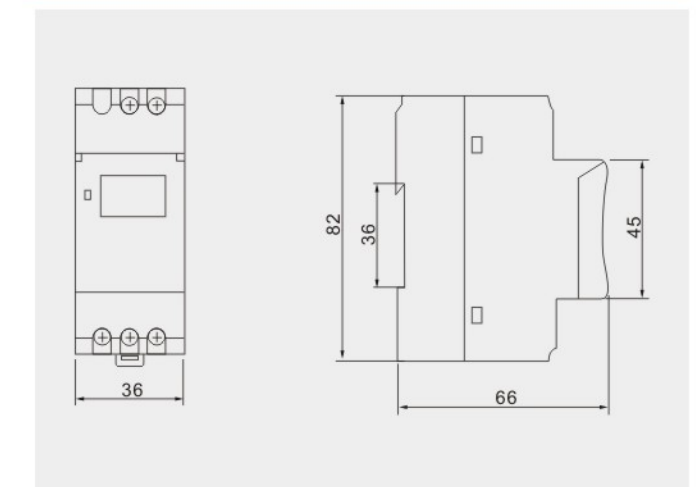
Construction and Feature

- Compact modular size
- LCD Display
- Equipped with back-up battery
- Permanent switch ON/OFF

Application

The product is applicable to circuit with rated current 16A, rated voltage 250V and rated frequency 50/60Hz. It provides independent electrical control to switch on-off the circuit at programmed times and days of the week.

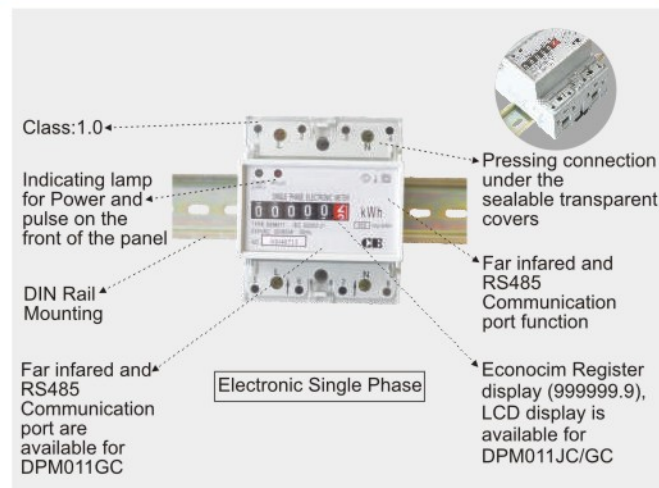
Overall & installation dimensions



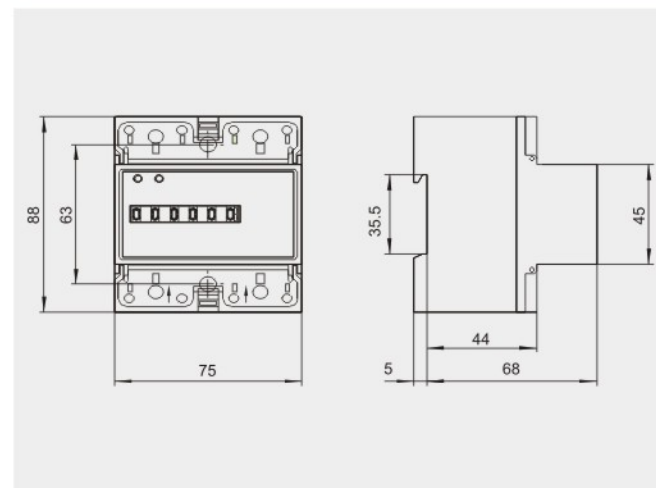
FDPM011



Feature



Dimensions



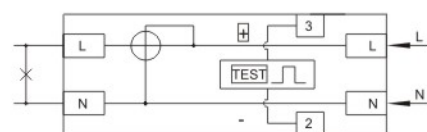
Technical Data

Model	Rated Voltage (V)	Basic Current (A)	Max. Current (A)	Display Range	Case Qty. (Pcs)
FDPM011AG	127	5	30	999999.9 Register	64
	230	10	50		
FDPM011JC	127	5	30	999999.9 LCD	64
	230	10	50		
FDPM011GC	127	5	30	999999.9 LCD	64
	230	10	50		

Note: Please mention the voltage and current when ordering, Special specifications upon request.

Wiring diagram

Terminal	Note
1	Inlet phase line
4	Inlet neutral line
3	Outgoing phase line
6	Outgoing neutral line (Inlet from top, outlet from bottom)
20 and 21	Port of pulse output passive



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