KWR1–100M/H Series　Residual Current Circuit Breaker

Standard	IEC/EN 61008-1
Rated conditional short-circuit current(kA)	6,10
Rated current(A),In	16/25/40/63/80/100
Number of poles	2P(1P+N),4P(3P+N)
Rated sensitivity currents(mA),I∆n	10,30,100,300,500 (10mA max 25A)
Rated making and breaking capacity	500A or 10 × In
Rated impulse withstand voltage Uimp(kV)	4
Rated voltage(V)	2pole AC 240
	4pole AC 415
Ambient temperature (℃)	-25~+40,Max.95%humidity
Environment temperature(℃)	-40℃~+60℃
Rated residual current making & breaking capacity, I∆m	500A for In=16,25,40A 630A for In=63A 800A for In=80A 1000A for In=100A
Type of trip	Electro-magnetic release
Terminal capacity	Cables up to 35mm^2
Protection degree	IP20
Installation	35mm DIN rail
Residual current operating characteristic	AC/A/AC+S/A+S
Certification	DVE CE CB

KWR1-100H-2P

KWR1-100H-4P

KWR1–100M Series Residual Current Circuit Breaker

	Rated current(A)	IΔn	Type AC	Type A	Type AC+S + S	Type A+S + S	Packing unit
KWR1-100M-2P	16	10mA	KWR1-100M/2/16/10	KWR1-100M/2/16/10-A	-	-	6
	25		KWR1-100M/2/25/10	KWR1-100M/2/25/10-A	-	-	
	16	30mA	KWR1-100M/2/16/30	KWR1-100M/2/16/30-A	-	-	
	25		KWR1-100M/2/25/30	KWR1-100M/2/25/30-A	-	-	
	40		KWR1-100M/2/40/30	KWR1-100M/2/40/30-A	-	-	
	63		KWR1-100M/2/63/30	KWR1-100M/2/63/30-A	-	-	
	80		KWR1-100M/2/80/30	KWR1-100M/2/80/30-A	-	-	
	100		KWR1-100M/2/100/30	KWR1-100M/2/100/30-A	-	-	
	16	100mA	KWR1-100M/2/16/100	KWR1-100M/2/16/100-A	-	-	
	25		KWR1-100M/2/25/100	KWR1-100M/2/25/100-A	KWR1-100M/2/25/100-AC-S	KWR1-100M/2/25/100-A-S	
	40		KWR1-100M/2/40/100	KWR1-100M/2/40/100-A	KWR1-100M/2/40/100-AC-S	KWR1-100M/2/40/100-A-S	
	63		KWR1-100M/2/63/100	KWR1-100M/2/63/100-A	KWR1-100M/2/63/100-AC-S	KWR1-100M/2/63/100-A-S	
	80		KWR1-100M/2/80/100	KWR1-100M/2/80/100-A	KWR1-100M/2/80/100-AC-S	KWR1-100M/2/80/100-A-S	
	100		KWR1-100M/2/100/100	KWR1-100M/2/100/100-A	KWR1-100M/2/100/100-AC-S	KWR1-100M/2/100/100-A-S	
	16	300mA	KWR1-100M/2/16/300	KWR1-100M/2/16/300-A	-	-	
	25		KWR1-100M/2/25/300	KWR1-100M/2/25/300-A	KWR1-100M/2/25/300-AC-S	KWR1-100M/2/25/300-A-S	
	40		KWR1-100M/2/40/300	KWR1-100M/2/40/300-A	KWR1-100M/2/40/300-AC-S	KWR1-100M/2/40/300-A-S	
	63		KWR1-100M/2/63/300	KWR1-100M/2/63/300-A	KWR1-100M/2/63/300-AC-S	KWR1-100M/2/63/300-A-S	
	80		KWR1-100M/2/80/300	KWR1-100M/2/80/300-A	KWR1-100M/2/80/300-AC-S	KWR1-100M/2/80/300-A-S	
	100		KWR1-100M/2/100/300	KWR1-100M/2/100/300-A	KWR1-100M/2/100/300-AC-S	KWR1-100M/2/100/300-A-S	
	16	500mA	KWR1-100M/2/16/500	KWR1-100M/2/16/500-A	-	-	
	25		KWR1-100M/2/25/500	KWR1-100M/2/25/500-A	KWR1-100M/2/25/500-AC-S	KWR1-100M/2/25/500-A-S	
	40		KWR1-100M/2/40/500	KWR1-100M/2/40/500-A	KWR1-100M/2/40/500-AC-S	KWR1-100M/2/40/500-A-S	
	63		KWR1-100M/2/63/500	KWR1-100M/2/63/500-A	KWR1-100M/2/63/500-AC-S	KWR1-100M/2/63/500-A-S	
	80		KWR1-100M/2/80/500	KWR1-100M/2/80/500-A	KWR1-100M/2/80/500-AC-S	KWR1-100M/2/80/500-A-S	
	100		KWR1-100M/2/100/500	KWR1-100M/2/100/500-A	KWR1-100M/2/100/500-AC-S	KWR1-100M/2/100/500-A-S	

KWR1–100M Series Residual Current Circuit Breaker

	Rated current(A)	IΔn	Type AC	Type A	Type AC+S + S	Type A+S + S	Packing unit
KWR1-100M-4P	16	10mA	KWR1-100M/4/16/10	KWR1-100M/4/16/10-A	-	-	3
	25		KWR1-100M/4/25/10	KWR1-100M/4/25/10-A	-	-	
	16	30mA	KWR1-100M/4/16/30	KWR1-100M/4/16/30-A	-	-	
	25		KWR1-100M/4/25/30	KWR1-100M/4/25/30-A	-	-	
	40		KWR1-100M/4/40/30	KWR1-100M/4/40/30-A	-	-	
	63		KWR1-100M/4/63/30	KWR1-100M/4/63/30-A	-	-	
	80		KWR1-100M/4/80/30	KWR1-100M/4/80/30-A	-	-	
	100		KWR1-100M/4/100/30	KWR1-100M/4/100/30-A	-	-	
	16	100mA	KWR1-100M/4/16/100	KWR1-100M/4/16/100-A	-	-	
	25		KWR1-100M/4/25/100	KWR1-100M/4/25/100-A	KWR1-100M/4/25/100-AC-S	KWR1-100M/4/25/100-A-S	
	40		KWR1-100M/4/40/100	KWR1-100M/4/40/100-A	KWR1-100M/4/40/100-AC-S	KWR1-100M/4/40/100-A-S	
	63		KWR1-100M/4/63/100	KWR1-100M/4/63/100-A	KWR1-100M/4/63/100-AC-S	KWR1-100M/4/63/100-A-S	
	80		KWR1-100M/4/80/100	KWR1-100M/4/80/100-A	KWR1-100M/4/80/100-AC-S	KWR1-100M/4/80/100-A-S	
	100		KWR1-100M/4/100/100	KWR1-100M/4/100/100-A	KWR1-100M/4/100/100-AC-S	KWR1-100M/4/100/100-A-S	
	16	300mA	KWR1-100M/4/16/300	KWR1-100M/4/16/300-A	-	-	
	25		KWR1-100M/4/25/300	KWR1-100M/4/25/300-A	KWR1-100M/4/25/300-AC-S	KWR1-100M/4/25/300-A-S	
	40		KWR1-100M/4/40/300	KWR1-100M/4/40/300-A	KWR1-100M/4/40/300-AC-S	KWR1-100M/4/40/300-A-S	
	63		KWR1-100M/4/63/300	KWR1-100M/4/63/300-A	KWR1-100M/4/63/300-AC-S	KWR1-100M/4/63/300-A-S	
	80		KWR1-100M/4/80/300	KWR1-100M/4/80/300-A	KWR1-100M/4/80/300-AC-S	KWR1-100M/4/80/300-A-S	
	100		KWR1-100M/4/100/300	KWR1-100M/4/100/300-A	KWR1-100M/4/100/300-AC-S	KWR1-100M/4/100/300-A-S	
	16	500mA	KWR1-100M/4/16/500	KWR1-100M/4/16/500-A	-	-	
	25		KWR1-100M/4/25/500	KWR1-100M/4/25/500-A	KWR1-100M/4/25/500-AC-S	KWR1-100M/4/25/500-A-S	
	40		KWR1-100M/4/40/500	KWR1-100M/4/40/500-A	KWR1-100M/4/40/500-AC-S	KWR1-100M/4/40/500-A-S	
	63		KWR1-100M/4/63/500	KWR1-100M/4/63/500-A	KWR1-100M/4/63/500-AC-S	KWR1-100M/4/63/500-A-S	
	80		KWR1-100M/4/80/500	KWR1-100M/4/80/500-A	KWR1-100M/4/80/500-AC-S	KWR1-100M/4/80/500-A-S	
	100		KWR1-100M/4/100/500	KWR1-100M/4/100/500-A	KWR1-100M/4/100/500-AC-S	KWR1-100M/4/100/500-A-S	

KWR1–100H Series Residual Current Circuit Breaker

	Rated current(A)	$I_{\Delta n}$	Type AC	Type A	Type AC+S + S	Type A+S + S	Packing unit
KWR1-100H-2P	16	10mA	KWR1-100H/2/16/10	KWR1-100H/2/16/10-A	-	-	6
	25		KWR1-100H/2/25/10	KWR1-100H/2/25/10-A	-	-	
	16	30mA	KWR1-100H/2/16/30	KWR1-100H/2/16/30-A	-	-	
	25		KWR1-100H/2/25/30	KWR1-100H/2/25/30-A	-	-	
	40		KWR1-100H/2/40/30	KWR1-100H/2/40/30-A	-	-	
	63		KWR1-100H/2/63/30	KWR1-100H/2/63/30-A	-	-	
	80		KWR1-100H/2/80/30	KWR1-100H/2/80/30-A	-	-	
	100		KWR1-100H/2/100/30	KWR1-100H/2/100/30-A	-	-	
	16	100mA	KWR1-100H/2/16/100	KWR1-100H/2/16/100-A	-	-	
	25		KWR1-100H/2/25/100	KWR1-100H/2/25/100-A	KWR1-100H/2/25/100-AC-S	KWR1-100H/2/25/100-A-S	
	40		KWR1-100H/2/40/100	KWR1-100H/2/40/100-A	KWR1-100H/2/40/100-AC-S	KWR1-100H/2/40/100-A-S	
	63		KWR1-100H/2/63/100	KWR1-100H/2/63/100-A	KWR1-100H/2/63/100-AC-S	KWR1-100H/2/63/100-A-S	
	80		KWR1-100H/2/80/100	KWR1-100H/2/80/100-A	KWR1-100H/2/80/100-AC-S	KWR1-100H/2/80/100-A-S	
	100		KWR1-100H/2/100/100	KWR1-100H/2/100/100-A	KWR1-100H/2/100/100-AC-S	KWR1-100H/2/100/100-A-S	
	16	300mA	KWR1-100H/2/16/300	KWR1-100H/2/16/300-A	-	-	
	25		KWR1-100H/2/25/300	KWR1-100H/2/25/300-A	KWR1-100H/2/25/300-AC-S	KWR1-100H/2/25/300-A-S	
	40		KWR1-100H/2/40/300	KWR1-100H/2/40/300-A	KWR1-100H/2/40/300-AC-S	KWR1-100H/2/40/300-A-S	
	63		KWR1-100H/2/63/300	KWR1-100H/2/63/300-A	KWR1-100H/2/63/300-AC-S	KWR1-100H/2/63/300-A-S	
	80		KWR1-100H/2/80/300	KWR1-100H/2/80/300-A	KWR1-100H/2/80/300-AC-S	KWR1-100H/2/80/300-A-S	
	100		KWR1-100H/2/100/300	KWR1-100H/2/100/300-A	KWR1-100H/2/100/300-AC-S	KWR1-100H/2/100/300-A-S	
	16	500mA	KWR1-100H/2/16/500	KWR1-100H/2/16/500-A	-	-	
	25		KWR1-100H/2/25/500	KWR1-100H/2/25/500-A	KWR1-100H/2/25/500-AC-S	KWR1-100H/2/25/500-A-S	
	40		KWR1-100H/2/40/500	KWR1-100H/2/40/500-A	KWR1-100H/2/40/500-AC-S	KWR1-100H/2/40/500-A-S	
	63		KWR1-100H/2/63/500	KWR1-100H/2/63/500-A	KWR1-100H/2/63/500-AC-S	KWR1-100H/2/63/500-A-S	
	80		KWR1-100H/2/80/500	KWR1-100H/2/80/500-A	KWR1-100H/2/80/500-AC-S	KWR1-100H/2/80/500-A-S	
	100		KWR1-100H/2/100/500	KWR1-100H/2/100/500-A	KWR1-100H/2/100/500-AC-S	KWR1-100H/2/100/500-A-S	

KWR1–100H Series　Residual Current Circuit Breaker

	Rated current(A)	IΔn	Type AC	Type A	Type AC+S + S	Type A+S + S	Packing unit
KWR1-100H-4P	16	10mA	KWR1-100H/4/16/10	KWR1-100H/4/16/10-A	-	-	3
	25		KWR1-100H/4/25/10	KWR1-100H/4/25/10-A	-	-	
	16	30mA	KWR1-100H/4/16/30	KWR1-100H/4/16/30-A	-	-	
	25		KWR1-100H/4/25/30	KWR1-100H/4/25/30-A	-	-	
	40		KWR1-100H/4/40/30	KWR1-100H/4/40/30-A	-	-	
	63		KWR1-100H/4/63/30	KWR1-100H/4/63/30-A	-	-	
	80		KWR1-100H/4/80/30	KWR1-100H/4/80/30-A	-	-	
	100		KWR1-100H/4/100/30	KWR1-100H/4/100/30-A	-	-	
	16	100mA	KWR1-100H/4/16/100	KWR1-100H/4/16/100-A	-	-	
	25		KWR1-100H/4/25/100	KWR1-100H/4/25/100-A	KWR1-100H/4/25/100-AC-S	KWR1-100H/4/25/100-A-S	
	40		KWR1-100H/4/40/100	KWR1-100H/4/40/100-A	KWR1-100H/4/40/100-AC-S	KWR1-100H/4/40/100-A-S	
	63		KWR1-100H/4/63/100	KWR1-100H/4/63/100-A	KWR1-100H/4/63/100-AC-S	KWR1-100H/4/63/100-A-S	
	80		KWR1-100H/4/80/100	KWR1-100H/4/80/100-A	KWR1-100H/4/80/100-AC-S	KWR1-100H/4/80/100-A-S	
	100		KWR1-100H/4/100/100	KWR1-100H/4/100/100-A	KWR1-100H/4/100/100-AC-S	KWR1-100H/4/100/100-A-S	
	16	300mA	KWR1-100H/4/16/300	KWR1-100H/4/16/300-A	-	-	
	25		KWR1-100H/4/25/300	KWR1-100H/4/25/300-A	KWR1-100H/4/25/300-AC-S	KWR1-100H/4/25/300-A-S	
	40		KWR1-100H/4/40/300	KWR1-100H/4/40/300-A	KWR1-100H/4/40/300-AC-S	KWR1-100H/4/40/300-A-S	
	63		KWR1-100H/4/63/300	KWR1-100H/4/63/300-A	KWR1-100H/4/63/300-AC-S	KWR1-100H/4/63/300-A-S	
	80		KWR1-100H/4/80/300	KWR1-100H/4/80/300-A	KWR1-100H/4/80/300-AC-S	KWR1-100H/4/80/300-A-S	
	100		KWR1-100H/4/100/300	KWR1-100H/4/100/300-A	KWR1-100H/4/100/300-AC-S	KWR1-100H/4/100/300-A-S	
	16	500mA	KWR1-100H/4/16/500	KWR1-100H/4/16/500-A	-	-	
	25		KWR1-100H/4/25/500	KWR1-100H/4/25/500-A	KWR1-100H/4/25/500-AC-S	KWR1-100H/4/25/500-A-S	
	40		KWR1-100H/4/40/500	KWR1-100H/4/40/500-A	KWR1-100H/4/40/500-AC-S	KWR1-100H/4/40/500-A-S	
	63		KWR1-100H/4/63/500	KWR1-100H/4/63/500-A	KWR1-100H/4/63/500-AC-S	KWR1-100H/4/63/500-A-S	
	80		KWR1-100H/4/80/500	KWR1-100H/4/80/500-A	KWR1-100H/4/80/500-AC-S	KWR1-100H/4/80/500-A-S	
	100		KWR1-100H/4/100/500	KWR1-100H/4/100/500-A	KWR1-100H/4/100/500-AC-S	KWR1-100H/4/100/500-A-S	

Life

In	Operating cycles	
	On-load operating cycles	Off-load operating cycles
16,25,40,63,80,100	4000	6000

Breaking time of residual current

Max.breaking time						
Residual current operating characteristic	In(A)	I△n(A)	I△n	2 I△n	5 I△n	5-500A
A/AC	16/25/40/63/80/100	0.01,0.03,0.1,0.3,0.5	0.15s	0.08s	0.04s	0.04s
AC+S/A+S	25/40/63/80/100	0.1,0.3,0.5	0.13~0.5s	0.06~0.2s	0.05~0.15s	0.04~0.15s

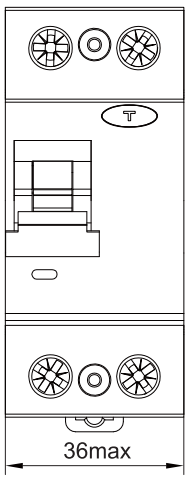
Wiring (The suitable conductors should be used for connection,see table below for relative parameters)

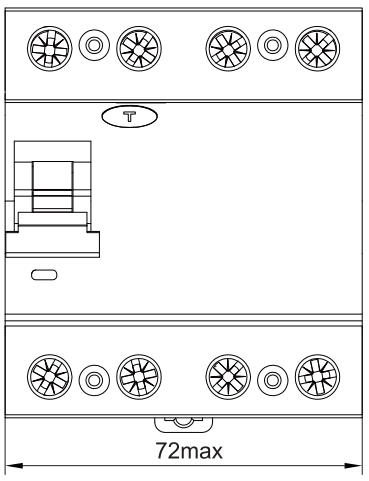
Rated current In (A)	Cross section area s(mm^2)	Tightening torque(N.m)
16	2.5	2.5
25	4	
40	10	
63	16	
80	25	
100	35	

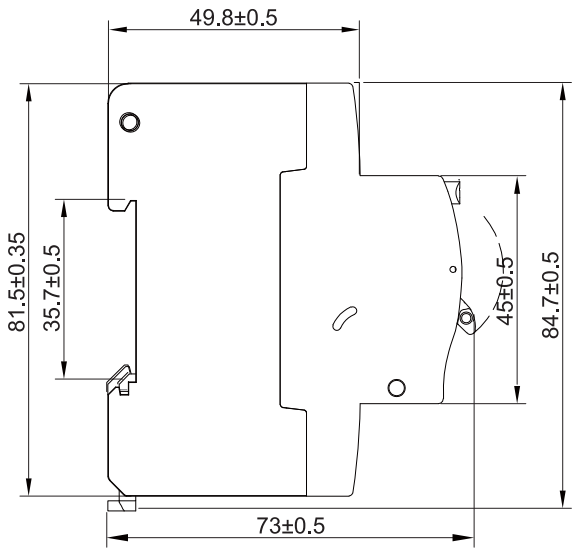
Features

When designing residual current devices, manufacturing technology and type of routine tests, the IEC/EN 61008-1 standards were considered.Important features are:
Up to date design
User-friendly connection of conductors and busbars
Resistance to current surges; unwanted tripping excluded
Simple and solid fixing to a 35 mm mounting rail in compliance with EN 60715
Additional colour display of main contacts position (red:contacts closed, green:contacts open)

Overall and mounting dimensions

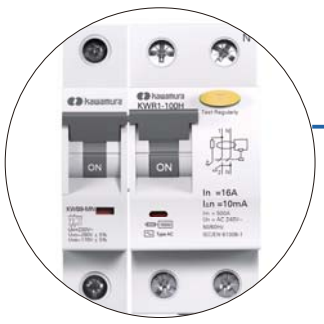




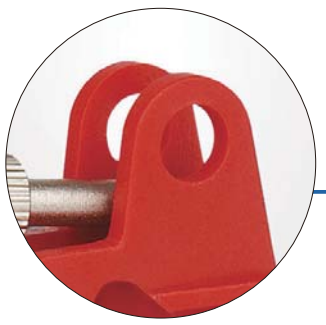


KWR1–100M/H Series Residual Current Circuit Breaker

Core Advantages



Fast Clip



Safety Lock

Anti-misinsertion

High Torque Terminal (5Nm)

Dual Top & Bottom Busbar Connections

Detailed Descriptions

1. Fast Clip
Simple and reliable modular design requiring no additional tools or accessories.

2. Enhanced Safety Lock
Integrated lock mechanism to prevent accidental operation and improve safety.

3. Flexible Busbar Configuration
Versatile design supports systems without a busbar, with a single busbar, or with dual busbars.

4. High Torque Terminal (5Nm)
Upgraded terminals allow for a maximum torque of 5Nm, ensuring superior connection integrity.

5. Anti-misinsertion
Unique terminal structure prevents incorrect wiring insertion.