VTEKE®

SAMPLE EDITION

Protection Relays — Sample edition

Category catalog · 2026 — built from the product data VTEKE maintain for the website, to show how the catalog downloads. The official catalog will replace it.

8	1	2026
Products	Category	Edition



Category catalog · 2026

Protection Relays

8 products · Earth Leakage Relay · Voltage Control Relays · Phase Failure and Sequence Relays · Current Protection Relays

Earth Leakage Relay



REPRESENTATIVE IMAGE

ELR–V3

ELR-V3 Earth leakage relay

The VTEKE ELR-V3 is an earth leakage relay designed to monitor RMS earth leakage current and provide protection against earth leakage faults. Used together with a Core Balance Current Transformer (CBCT), it continuously monitors leakage current and operates the relay output when the configured leakage current threshold and delay conditions are reached.

KEY FEATURES

- RMS earth leakage current monitoring
- Multiple selectable leakage current thresholds
- Adjustable trip delay time
- LED leakage level indication
- On-device Reset and Test functions
- Remote reset function
- CBCT open-circuit detection
- CBCT short-circuit detection
- DIN rail mounting

SPECIFICATIONS

ELECTRICAL CHARACTERISTICS	
Operating Voltage (Un)	220 V AC ±15%
Operating Power	<4 VA
Leakage Current Threshold	30 mA – 30 A
Accuracy	±10%
Delay Time	0 – 9 s
Contact Configuration	1NO + 1NC (SPDT)
Switching Time	10 ms
OUTPUT CHARACTERISTICS	
Contact Rating	10 A / 28 V DC
Contact Rating	7 A / 250 V AC
Contact Rating	10 A / 125 V AC
Contact Rating	12 A / 120 V AC
MECHANICAL CHARACTERISTICS	
Connection Type	Plug-in
Maximum Wire Size	1.5 mm²
Mounting	DIN Rail
Weight	<120 g
Protection Class	IP20

ENVIRONMENTAL CHARACTERISTICS	
Operating Temperature	-20°C to +55°C
Working Altitude	<2000 m

Voltage Control Relays



REPRESENTATIVE IMAGE

VCR-11

Single-Phase Voltage Control Relay

The VTEKE VCR-11 is a voltage control relay designed to protect electrical systems and equipment against abnormal voltage conditions in single-phase applications. It monitors the supply voltage and provides protection against overvoltage, undervoltage, and insufficient supply voltage.

KEY FEATURES

- Overvoltage and undervoltage monitoring
- Insufficient supply voltage detection
- Adjustable overvoltage and undervoltage thresholds
- Adjustable delay time
- Adjustable reset time
- LED status and fault indication
- DIN rail mounting

SPECIFICATIONS

ADJUSTABLE SETTINGS	
Overvoltage U>	230–300 V AC (L-N)
Undervoltage U<	150–210 V AC (L-N)
Delay Time DT	0.5–20 s
Reset Time RT	0.5–20 s
ELECTRICAL CHARACTERISTICS	
Operating Voltage (Un)	220 V AC (L-N)
Operating Frequency	50/60 Hz
Operating Power	<4 VA
Overvoltage U>	230–300 V AC (L-N)
Undervoltage U<	150–210 V AC (L-N)
Delay Time DT	0.5–20 s
Reset Time RT	0.5–20 s
Contact Configuration	1NO + 1NC (SPDT)
OUTPUT CHARACTERISTICS	
Contact Rating	10 A / 28 V DC
Contact Rating	7 A / 250 V AC
Contact Rating	10 A / 125 V AC
Contact Rating	12 A / 120 V AC
MECHANICAL CHARACTERISTICS	
Maximum Wire Size	1.5 mm²
Mounting	DIN Rail
Protection Class	IP20



REPRESENTATIVE IMAGE

VCR-02F

Three-Phase Voltage and Phase Sequence Control Relay with Neutral (3P+N)

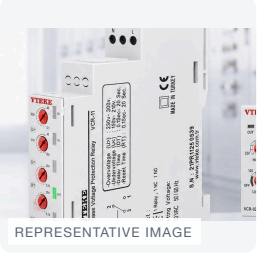
The VTEKE VCR-02F is a voltage control relay designed to protect electrical systems and equipment against abnormal voltage and phase conditions in three-phase applications. It monitors the supply voltage and provides protection against overvoltage, undervoltage, insufficient supply voltage, phase failure, phase sequence error, and neutral absence.

KEY FEATURES

- Overvoltage and undervoltage monitoring
- Phase sequence error protection
- Phase failure protection
- Neutral absence detection
- Insufficient supply voltage detection
- Adjustable overvoltage and undervoltage thresholds
- Adjustable delay time
- Adjustable reset time
- LED status and fault indication
- DIN rail mounting

SPECIFICATIONS

ADJUSTABLE SETTINGS	
Overvoltage U>	230–300 V AC (L-N)
Undervoltage U<	140–210 V AC (L-N)
Delay Time DT	0.1–20 s
Reset Time RT	0.1–20 s
ELECTRICAL CHARACTERISTICS	
Operating Voltage (Un)	3 × 380 V AC (L-L) + N
Operating Frequency	50/60 Hz
Operating Power	<4 VA
Overvoltage U>	230–300 V AC (L-N)
Undervoltage U<	140–210 V AC (L-N)
Contact Configuration	1NO + 1NC (SPDT)
OUTPUT CHARACTERISTICS	
Contact Rating	10 A / 28 V DC
Contact Rating	7 A / 250 V AC
Contact Rating	10 A / 125 V AC
Contact Rating	12 A / 120 V AC
MECHANICAL CHARACTERISTICS	
Maximum Wire Size	1.5 mm²
Mounting	DIN Rail
Protection Class	IP20



REPRESENTATIVE IMAGE

VCR-03F

Three-Phase Voltage and Phase Sequence Control Relay without Neutral (3P)

The VTEKE VCR-03F is a voltage control relay designed to protect electrical systems and equipment against abnormal voltage and phase conditions in three-phase applications. It monitors the supply voltage and provides protection against overvoltage, undervoltage, insufficient supply voltage, phase failure, phase sequence error, and neutral absence.

KEY FEATURES

- Overvoltage and undervoltage monitoring
- Phase sequence error protection
- Phase failure protection
- Neutral absence detection
- Insufficient supply voltage detection
- Adjustable overvoltage and undervoltage thresholds
- Adjustable delay time
- Adjustable reset time
- LED status and fault indication
- DIN rail mounting

SPECIFICATIONS

ADJUSTABLE SETTINGS	
Overvoltage U>	400–510 V AC (L-L)
Undervoltage U<	260–370 V AC (L-L)
Delay Time DT	0.1–20 s
Reset Time RT	0.1–20 s
ELECTRICAL CHARACTERISTICS	
Operating Voltage (Un)	3 × 380 V AC (L-L)
Operating Frequency	50/60 Hz
Operating Power	<4 VA
Overvoltage U>	400–510 V AC (L-L)
Undervoltage U<	260–370 V AC (L-L)
Contact Configuration	1NO + 1NC (SPDT)
OUTPUT CHARACTERISTICS	
Contact Rating	10 A / 28 V DC
Contact Rating	7 A / 250 V AC
Contact Rating	10 A / 125 V AC
Contact Rating	12 A / 120 V AC
MECHANICAL CHARACTERISTICS	
Maximum Wire Size	1.5 mm²
Mounting	DIN Rail
Protection Class	IP20



REPRESENTATIVE IMAGE

VCR-02

Three-Phase Voltage Control Relay

The VTEKE VCR-02 is a voltage control relay designed to protect electrical systems and equipment against abnormal voltage conditions in three-phase applications. It monitors the supply voltage and provides protection against overvoltage, undervoltage, insufficient supply voltage, phase failure, and neutral absence.

KEY FEATURES

- Overvoltage and undervoltage monitoring
- Phase failure protection
- Neutral absence detection
- Insufficient supply voltage detection
- Adjustable overvoltage and undervoltage thresholds
- Adjustable delay time
- Adjustable reset time
- LED status and fault indication
- DIN rail mounting

SPECIFICATIONS

ADJUSTABLE SETTINGS	
Overvoltage U>	230–300 V AC (L-N)
Undervoltage U<	140–210 V AC (L-N)
Delay Time DT	0.1–20 s
Reset Time RT	0.1–20 s
ELECTRICAL CHARACTERISTICS	
Operating Voltage (Un)	3 × 380 V AC (L-L) + N
Operating Frequency	50/60 Hz
Operating Power	<4 VA

Overvoltage U>	230–300 V AC (L-N)
Undervoltage U<	140–210 V AC (L-N)
Contact Configuration	1NO + 1NC (SPDT)
OUTPUT CHARACTERISTICS	
Contact Rating	10 A / 28 V DC
Contact Rating	7 A / 250 V AC
Contact Rating	10 A / 125 V AC
Contact Rating	12 A / 120 V AC
MECHANICAL CHARACTERISTICS	
Maximum Wire Size	1.5 mm²
Mounting	DIN Rail
Protection Class	IP20

Phase Failure and Sequence Relays


REPRESENTATIVE IMAGE

PPR-05F

Three-Phase Failure and Sequence Protection Relay with Neutral (3P+N)

The VTEKE PPR-05F is a phase failure relay designed to protect three-phase electrical systems and equipment against abnormal phase and voltage conditions. It monitors the three-phase supply and provides protection against phase failure, phase sequence error, voltage asymmetry, overvoltage, undervoltage, insufficient supply voltage, and neutral absence.

KEY FEATURES

- Phase failure monitoring
- Phase sequence error protection
- Adjustable voltage asymmetry protection
- Overvoltage and undervoltage protection
- Insufficient supply voltage detection
- Neutral absence detection
- Adjustable delay time
- Adjustable reset time
- LED status and fault indication
- DIN rail mounting

SPECIFICATIONS

ADJUSTABLE SETTINGS	
Asymmetry	5–25%
Delay Time DT	0.1–20 s
Reset Time RT	0.1–20 s
ELECTRICAL CHARACTERISTICS	
Operating Voltage (Un)	3 × 380 V AC (L-L) + N
Operating Frequency	50/60 Hz
Operating Power	<4 VA
Asymmetry	5–25%
Overvoltage U>	300 V AC (L-N)
Undervoltage U<	140 V AC (L-N)
Delay Time DT	0.1–20 s
Reset Time RT	0.1–20 s
Contact Configuration	1NO + 1NC (SPDT)
OUTPUT CHARACTERISTICS	

Contact Rating	10 A / 28 V DC
Contact Rating	7 A / 250 V AC
Contact Rating	10 A / 125 V AC
Contact Rating	12 A / 120 V AC
MECHANICAL CHARACTERISTICS	
Maximum Wire Size	1.5 mm²
Mounting	DIN Rail
Protection Class	IP20



REPRESENTATIVE IMAGE

PPR-06F

Three-Phase Failure and Sequence Protection Relay without Neutral (3P)

The VTEKE PPR-06F is a phase failure relay designed to protect three-phase electrical systems and equipment against abnormal phase and voltage conditions. It monitors the three-phase supply and provides protection against phase failure, phase sequence error, voltage asymmetry, overvoltage, undervoltage, and insufficient supply voltage.

KEY FEATURES

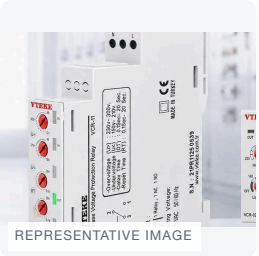
- Phase failure monitoring
- Phase sequence error protection
- Adjustable voltage asymmetry protection
- Overvoltage and undervoltage protection
- Insufficient supply voltage detection
- Adjustable delay time
- Adjustable reset time
- LED status and fault indication
- DIN rail mounting

SPECIFICATIONS

ADJUSTABLE SETTINGS	
Asymmetry	5–25%
Delay Time DT	0.1–20 s
Reset Time RT	0.1–20 s
ELECTRICAL CHARACTERISTICS	
Operating Voltage (Un)	3 × 380 V AC (L-L)
Operating Frequency	50/60 Hz
Operating Power	<4 VA
Asymmetry	5–25%
Overvoltage U>	500 V AC (L-L)
Undervoltage U<	240 V AC (L-L)
Delay Time DT	0.1–20 s
Reset Time RT	0.1–20 s
Contact Configuration	1NO + 1NC (SPDT)
OUTPUT CHARACTERISTICS	
Contact Rating	10 A / 28 V DC
Contact Rating	7 A / 250 V AC
Contact Rating	10 A / 125 V AC
Contact Rating	12 A / 120 V AC
MECHANICAL CHARACTERISTICS	
Maximum Wire Size	1.5 mm²
Mounting	DIN Rail

Protection Class	IP20

Current Protection Relays



REPRESENTATIVE IMAGE

DOR

Digital Overload Relay

The VTEKE DOR Series is a digital overload relay designed to monitor three-phase motor current and provide protection against overcurrent/overload and current asymmetry. The series is available in different current ranges to support various motor and load requirements.

KEY FEATURES

- Three-phase current monitoring
- Overcurrent / overload protection
- Current asymmetry monitoring
- Adjustable trip delay time
- Digital current display
- LED status indication
- Relay output for contactor control
- DIN rail mounting

SPECIFICATIONS

ELECTRICAL CHARACTERISTICS	
Operating Voltage	150–260 V AC
Operating Frequency	50/60 Hz
Operating Power	<6 VA
DOR-25 Current Range	0.1–25 A AC
DOR-50 Current Range	15–50 A AC
DOR-100 Current Range	40–100 A AC
DOR-200 Current Range	90–200 A AC
DOR-400 Current Range	290–400 A AC
Asymmetry	50% fixed
Waiting Time (t)	0.1–20 s
Contact Configuration	1NO + 1NC
Contact Rating	5 A / 250 V AC
DISPLAY & INDICATION	
Display	3 Displays
LED Indication	5 LEDs
MECHANICAL & ENVIRONMENTAL CHARACTERISTICS	
Operating Temperature	-20°C to +55°C
Protection Class	IP20
Connection Type	Terminal Connection
Maximum Cable Size	2.5 mm²
Mounting	DIN Rail Mounting
Weight	<250 g
Working Altitude	<2000 m