

Voltage Monitoring Relays

GKRC - DGRC - MCC Series



GKRC-02FA



GKRC-20F



GKRC-01

GKRC series Voltage Monitoring Relays are designed to protect single or three-phase systems against voltage changes and phase sequence faults.

When the nominal voltage of any phase increases or decreases by 50%, the relay is switched to OFF without delay.

DGRC series voltage protection relay is designed to protect single or three-phase systems in cases of permanent voltage drops.



PRODUCT SELECTION TABLE

Product Code	Neutral Failure	3-Phase	Single Phase	Under Voltage	Over Voltage	Phase Failure	Phase Seq. Failure	Switch on Delay	Switch off Delay	Without Neutral	Auxiliary Supply	DIN1 Rail mounting	DIN2 Rail mounting	Pcs / Box
DGRC-01	●	●		■				●	●				●	16
GKRC-01	●	●			■			●	●				●	16
GKRC-02	●	●		■	■			●	●				●	16
GKRC-02F	●	●		■	■	●	●	●	●				●	16
GKRC-02FA		●		■	■	●	●	●	●	●	●		●	16
GKRC-03		●		■	■			●	●	●			●	16
GKRC-03F		●		■	■	●	●	●	●	●			●	16
GKRC-M2	●		●	■	■			●	●				●	16
MCC-1D	●		●	●		●		●				●		28
MCC-3D	●	●		●		●		●				●		28
GKRC-20F		●		○	○	●	●		●			●		10

● Adjustable.

■ Adjustable and can be switched off.

SPECIFICATIONS

	GKRC-02	GKRC-02F	GKRC-20F	GKRC-02FA	GKRC-03	GKRC-03F	GKRC-M2	GKRC-01	DGRC-01	MCC-1D	MCC-3D	
ENCLOSURE												
Dimensions	PK28		PK22	PK28				Pk22				
Weight	0,25kg/pcs		0,1kg/pcs	0,25kg/pcs				0,1kg/pcs				
MEASUREMENTS												
Voltage												
Under Voltage Setting Range	150-210 VAC*		(0,70-1,2)xUn	270-370 VAC*		150-210 VAC*						
Over Voltage Setting Range	240-300 VAC*		(0,8-1,30)xUn	410-510 VAC*		240-300 VAC*						
Instant Tripping Value	0,5xUn 1,5xUn		-	0,5xUn 1,5xUn		0,5xUn		168 VAC				
Instant Tripping Time	100ms.											
Hysteresis	3%											
SUPPLY												
Operating Voltage	230 VAC±10%		230 VAC, 400 VAC±30%	Auxiliary Supply 190-260 VAC	400VAC ±10%		230 VAC±10%					
Operating Frequency	50/60 Hz											
OUTPUT/SETTINGS												
Output Contact	1CO 8A 2000VA cosφ=1											
On Delay	0,1 -20 s.		-	0,1 -20 s.				5-15 m. (1-5 m.)				
Off Delay	0,1 -20 s.											
AMBIENT CONDITIONS												
Ambient Temperature/Humidity	-5 / +55°C ; 90%											
Over Voltage Category	III											
CONNECTIONS												
Mounting	Rail Mounting; Terminal with Screw											
Connection Types	3 phase, neutral			3 phase, without neutral		1 phase, neutral	3 phase neutral	1 phase neutral	3 phase neutral			
STANDARDS												
Standards	EC 60255-3, EC 60255-6, EC 60870-5, EC 60529											

*These features can be switched-off by user



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Connection Diagram

