

E/NTES



DGRC-GKRC-MCC Series Voltage Monitoring Relays

Voltage monitoring relays are designed to protect 1-phase or 3-phase systems from voltage changes. Our wide range of voltage monitoring relays provides to detect phase loss, incorrect phase sequence and to control under/over voltage with adjustable voltage limits.

They are used in protection of compressors, electrical motors, capacitors in compensation systems, air conditioning/ industrial cooling systems, telecom base stations and railway applications.

- Protection against under/over voltage
- DIN rail mounting
- 230 VAC or 400 VAC operating voltage
- Between 0.1-20 sec off delay and on delay time adjustment (5-15 min for MCC series)
- IP20 terminals and IP40 front panel protection class
- 1 x 8A CO or NO relay output



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.

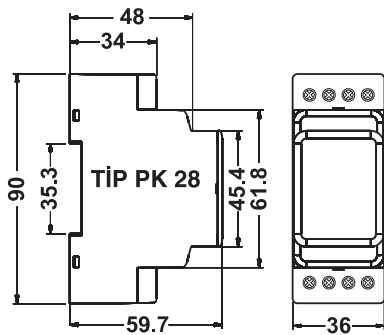
■ Adjustable and can be switched off.

SPECIFICATIONS

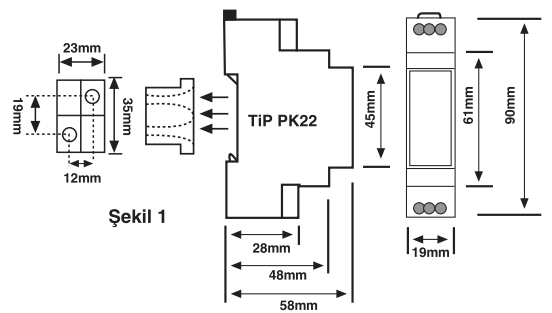
SPECIFICATIONS	GKRC-02	GKRC-02F	GKRC-20F	GKRC-02FA	GKRC-03	GKRC-03F	GKRC-M2	GKRC-01	DGRC-01	MCC-1D	MCC-3D
ENCLOSURE											
Dimensions	PK28		PK22				PK28				PK22
Weight	0,25kg/pcs		0,1kg/pcs				0,25kg/pcs				0,1kg/pcs
MEASUREMENTS											
Voltage											
Under Voltage Setting Range	150-210 VAC*		(0,70-1,2)xUn		270-370 VAC*		150-210 VAC*		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, Auxiliary Supply 400 VAC±30%	190-260 VAC	400VAC ±10%			230 VAC±10%			380 VAC±10%
Operating Frequency					50/60 Hz						
OUTPUT/SETTINGS											
Output Contact					1CO 8A 2000VA cosφ=1						1NO 8A 2000VA cosφ=1
On Delay	0,1 -20 sec.		-				0,1 -20 sec.				5-15 min. (1-5 min.)
Off Delay	0,1 -20 sec.		0,1-10 sec				0,1 -20 sec.				
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

Size (Type PK 28)



Size (Type PK 22)



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