

E/NTES



MKC-MKS Series Phase Failure Relays

MKC - MKS series phase failure relays are designed to prevent over-heating and burning of 3 phase motors due to phase failure or unbalanced voltage (asymmetry) in industrial plants.

They are used in process industry, conveyor & transport systems, moving stairs & elevators and industrial machine lines.

- Protection against phase failure, incorrect phase sequence, asymmetry and over-heating
- DIN rail mounting
- 230 VAC or 400 VAC operating voltage
- Between 0.1-20 sec. off delay and on delay time adjustment (MKC-05/05P/06/06P)
- 0.2 sec. fixed off delay and on delay time (MKC-01/03/03P/04 and MKS-01/03)
- Adjustable or fixed asymmetry
- IP20 protection class
- 1 x 8A CO or NO contact output
1 x 5A CO contact output (MKC-20)
- 3 wires delta or 4 wires star connection



PRODUCT SELECTION TABLE

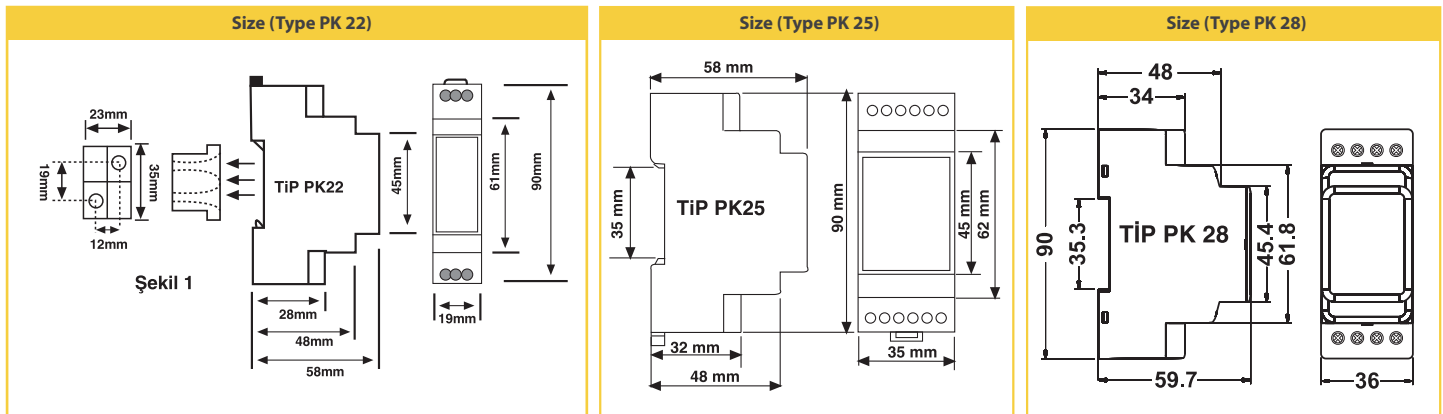
Product Code

Product Code	Product Name	Neutral Failure	Phase Failure	Phase Seq. Failure	PTC Protection	Fixed Asymmetry	Adjustable Asymmetry	Without Neutral	Adjustable ON Delay	Adjustable OFF Delay	1 C/O Contact	1 N/O Contact	DIN1 Rail Mounting	DIN2 Rail Mounting
MK-01	Phase Failure Relay	•	•			20%					•			
MKC-01	Phase Failure Relay	•	•			20%					•			•
MKS-01	Phase Failure Relay	•	•			20%						•	•	
MKC-03	Phase Failure Relay	•	•	•		40%					•			•
MKC-03P	Phase Failure Relay (with PTC3)	•	•	•	•	40%					•			•
MKS-03	Phase Failure Relay	•	•	•		40%						•	•	
MKC-04	Phase Failure Relay	•	•	•		40%		•			•			•
MKC-04-U69	Phase Failure Relay	•	•	•		10%		•			•			•
MKC-05	Phase Failure Relay	•	•	•			5-15%*		•	•	•	•		•
MKC-05P	Phase Failure Relay (with PTC3)	•	•	•	•		5-15%*		•	•	•	•		•
MKC-06	Phase Failure Relay	•	•	•			5-15%*	•	•	•	•	•		•
MKC-06P	Phase Failure Relay (with PTC3)	•	•	•	•		5-15%*	•	•	•	•	•		•
MKC-20	Phase Failure Relay	•	•	•			5-25%*			•	•		•	•

* Adjustable and can be switched off.

SPECIFICATIONS	MK-01	MKS-01	MKS-03	MKC-01	MKC-03	MKC-03P	MKC-04	MKC-04-U69	MKC-05	MKC-05P	MKC-06	MKC-06P	MKC-20
ENCLOSURE													
Dimensions	PK21	PK22		PK28			PK25	PK28				PK22	
MEASUREMENT													
Voltage Unbalance	20% fixed		40% fixed	20% fixed	40% fixed			10% fixed	5%-15% adjustable and can be switched off				5%-25% adjustable and can be switched off
SUPPLY													
Operating Voltage	230 VAC						380 VAC	160-690 VAC*	230 VAC	220 VAC	400 VAC	380 VAC	230 VAC
Operating Frequency	50/60 Hz												
OUTPUT													
Output Contact	1CO,8A, 2000 VA (cosφ=1)	1NO,8A,2000 VA (cosφ=1)		1CO,8A,2000 VA (cosφ=1)			1CO,8A,2000 VA (cosφ=1)						1CO 5A, 1250 VA (cosφ=1)
ON Delay				0,2 sec. fixed				0,1-20 sec. adjustable				0,1 sec. fixed	
OFF Delay				0,2 sec. fixed				0,1-20 sec. adjustable				0,1-20 sec. adjustable	
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		3 phase+neutral		3 phase		3 phase+neutral

* 160 - 600 VAC (UL Certificate)



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