

# E/WTES



## 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

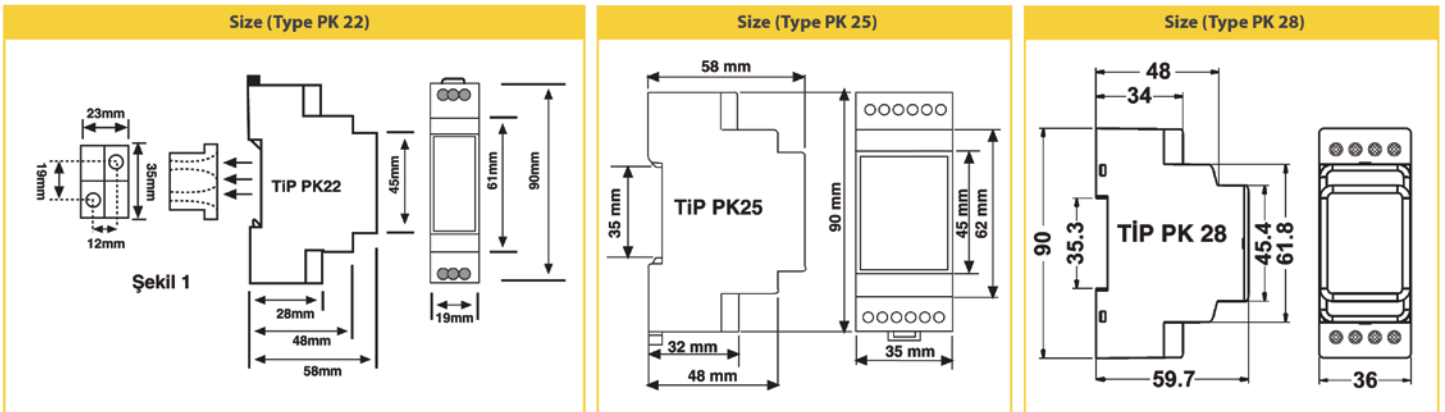
### Product Code

Product Code	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	•	•			20%					•			
MKC-01	•	•			20%					•			•
MKS-01	•	•			20%						•	•	
MKC-03	•	•	•		40%					•			•
MKC-03P	•	•	•	•	40%					•			•
MKS-03	•	•	•		40%						•	•	
MKC-04	•	•	•		40%		•			•			•
MKC-04-U69	•	•	•		10%		•			•			•
MKC-05	•	•	•			5-15%*		•	•	•			•
MKC-05P	•	•	•	•		5-15%*		•	•	•			•
MKC-06	•	•	•			5-15%*	•	•	•	•			•
MKC-06P	•	•	•	•		5-15%*	•	•	•	•			•
MKC-20	•	•	•			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
<b>ENCLOSURE</b>													
Dimensions	PK21	PK22			PK28			PK25	PK28				PK22
<b>MEASUREMENT</b>													
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
<b>SUPPLY</b>													
Operating Voltage	230 VAC						380 VAC	160-690 VAC*	230 VAC	220 VAC	400 VAC	380 VAC	230 VAC
Operating Frequency	50/60 Hz												
<b>OUTPUT</b>													
Output Contact	1CO,8A, 2000 VA (cosφ=1)	1NO,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
<b>AMBIENT CONDITIONS</b>													
Ambient Temperature ; Humidity	-5 / +55°C ; 90%												
Over Voltage Category	III												
<b>CONNECTIONS</b>													
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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