## **DATASHEET - Z-RK12/3S10**



Installation relay, 12VAC/50Hz, 3N/O+1N/C, 20A, 2HP

Part no. Z-RK12/3S10 Catalog No. 265243



Similar to illustration

## Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	20
Heat dissipation per pole, current-dependent	$P_{\text{vid}}$	W	2
Equipment heat dissipation, current-dependent	$P_{\text{vid}}$	W	10.4
Operating ambient temperature min.		°C	-20
Operating ambient temperature max.		°C	45

## **Technical data ETIM 7.0**

Devices for distribution board-/surface mounting (EG000062) / Installation relay (EC001652)

Electric engineering, automation, process control engineering / Electrical installation, device / Modular serial built-in device for electrical circuit distributors / Installation relay for distribution board (ecl@ss10.0.1-27-14-23-09 [AFZ821014])

Mounting method  Width in number of modular spacings  Built-in depth  Number of contacts as normally open contact  Number of contacts as normally closed contact  Number of contacts as normally closed contact  Number of contacts as change-over contact  Control voltage 1  Type of control voltage 1  Type of control voltage 1  Type of control voltage 1  Control voltage 2  Type of control voltage 3  Type of control voltage 4  T			
Width in number of modular spacings         2           Built-in depth         mm         60           Number of contacts as normally closed contact         3         3           Number of contacts as normally closed contact         1         1           Number of contacts as change-over contact         0         0           Control voltage 1         V         12 - 12           Type of control voltage 1         Hz         50 - 50           Control voltage 2         V         0 - 0           Control voltage 2         K/DC         AC/DC           Trequency control voltage 2         Hz         0 - 0           Rated current         A         2           Supply voltage         V         20 - 250           Voltage type of supply voltage         V         20 - 250           Voltage type of supply voltage         V         20 - 250           Voltage type of supply voltage         V         20 - 250           Voltage type of supply voltage         V         20 - 250           Max. incandescent lamp load         V         0           Max. incandescent lamp load         VA         0           Max. load fluorescent lamp (puo circuit)         VA         0           Max. incandescent lamp (p	Function		Mechanical
Built-in depth         mm         60           Number of contacts as normally closed contact         5         3           Number of contacts as normally closed contact         1         1           Number of contacts as change-over contact         0         12-12           Control voltage 1         V         12-12           Type of control voltage 1         Hz         50-50           Control voltage 2         V         0-0           Type of control voltage 2         Hz         AC/DC           Trequency control voltage 2         Hz         0-0           Rated current         A         20           Supply voltage         Y         250-250           Voltage type of supply voltage         Y         250-250           Voltage type of supply voltage         Y         0           Max. incandescent lamp load         Y         0           Max. load fluorescent lamp (Duo circuit)         YA         0           Max. load fluorescent lamp (Duo circuit)         YA         0           Max. load fluorescent lamp (Duo circuit)         YA         0	Mounting method		DIN rail
Number of contacts as normally open contact         3           Number of contacts as normally closed contact         1           Number of contacts as change-over contact         0           Control voltage 1         V         12 - 12           Type of control voltage 1         Hz         50 - 50           Control voltage 2         V         0 - 0           Type of control voltage 2         Hz         0 - 0           Frequency control voltage 2         Hz         0 - 0           Frequency control voltage 2         Hz         0 - 0           Frequency control voltage 2         Hz         0 - 0           Rated current         A         20           Voltage type of supply voltage         V         250 - 250           Voltage type of supply voltage         W         0           Max. load fluorescent lamp load         W         0           Max. load fluorescent lamp (Duo circuit)         VA         0           Max. load fluorescent lamp (Duo circuit)         VA         0           Max. load fluorescent lamp (parallel compensated)         VA         0	Width in number of modular spacings		2
Number of contacts as normally closed contact         1           Number of contacts as change-over contact         0           Control voltage 1         V         12 - 12           Type of control voltage 1         Hz         50 - 50           Control voltage 2         V         0 - 0           Type of control voltage 2         Hz         0 - 0           Frequency control voltage 2         Hz         0 - 0           Frequency control voltage 2         Hz         0 - 0           Rated current         A         20           Rated current         A         20           Supply voltage         V         250 - 250           Voltage type of supply voltage         W         0           Max. incandescent lamp load         W         0           Max. load fluorescent lamp (Duo circuit)         VA         0           Max. load fluorescent lamp (Duo circuit)         VA         0           Max. load fluorescent lamp (parallel compensated)         VA         0	Built-in depth	mm	60
Number of contacts as change-over contact  Control voltage 1  Type of control voltage 1  Frequency control voltage 1  Control voltage 2  Type of control voltage 3  Type of control voltage 4  Type of control voltage 5  Type of control voltage 5  Type of control voltage 6  Type of control voltage 7  Type of control vol	Number of contacts as normally open contact		3
Control voltage 1         V         12 - 12           Type of control voltage 1         HZ         50 - 50           Control voltage 2         V         0 - 0           Type of control voltage 2         W         AC/DC           Frequency control voltage 2         HZ         0 - 0           Frequency control voltage 2         HZ         0 - 0           Rated current         A         20           Supply voltage         V         250 - 250           Voltage type of supply voltage         AC           Max. incandescent lamp load         W         0           Max. load fluorescent lamp (Duo circuit)         VA         0           Max. load fluorescent lamp (parallel compensated)         VA         0	Number of contacts as normally closed contact		1
Type of control voltage 1 Frequency control voltage 1 Frequency control voltage 2 V 0 - 0 Type of control voltage 2 Frequency control voltage 2 Rated current A 20 Supply voltage V 250 - 250 Voltage type of supply voltage V V COLTAGE  AC  Max. incandescent lamp load W 0 Max. load fluorescent lamp (Duo circuit) VA 0 Max. load fluorescent lamp (parallel compensated) VA 0  Max. load fluorescent lamp (parallel compensated) VA 0	Number of contacts as change-over contact		0
Frequency control voltage 1         Hz         50 - 50           Control voltage 2         V         0 - 0           Type of control voltage 2         AC/DC           Frequency control voltage 2         Hz         0 - 0           Rated current         A         20           Supply voltage         V         250 - 250           Voltage type of supply voltage         W         AC           Max. incandescent lamp load         W         0           Max. load fluorescent lamp (Duo circuit)         VA         0           Max. load fluorescent lamp (parallel compensated)         VA         0	Control voltage 1	V	12 - 12
Control voltage 2  Type of control voltage 2  Frequency control voltage 2  Hz 0-0  Rated current  A 20  Supply voltage  Vy 250-250  Voltage type of supply voltage  Voltage type of supply voltage  Wox. incandescent lamp load  Max. load fluorescent lamp (Duo circuit)  Max. load fluorescent lamp (parallel compensated)  Vy 0  University of type of supply voltage  Vy 0  Voltage type of supply voltage  Vy 0  O Control voltage (V) 0  University of type of supply voltage  Voltage t	Type of control voltage 1		AC
Type of control voltage 2 Frequency control voltage 2 Rated current A D Supply voltage V V Sto - 250 Voltage type of supply voltage V V V V V V V V V V V V V V V V V V V	Frequency control voltage 1	Hz	50 - 50
Frequency control voltage 2         Hz         0 - 0           Rated current         A         20           Supply voltage         V         250 - 250           Voltage type of supply voltage         AC           Max. incandescent lamp load         W         0           Max. load fluorescent lamp         VA         0           Max. load fluorescent lamp (Duo circuit)         VA         0           Max. load fluorescent lamp (parallel compensated)         VA         0	Control voltage 2	V	0 - 0
Rated current A 20 Supply voltage V 250 - 250 Voltage type of supply voltage AC Max. incandescent lamp load W 0 Max. load fluorescent lamp (Duo circuit) VA 0 Max. load fluorescent lamp (parallel compensated) VA 0	Type of control voltage 2		AC/DC
Supply voltage  Voltage type of supply voltage  Max. incandescent lamp load  Max. load fluorescent lamp (Duo circuit)  Max. load fluorescent lamp (parallel compensated)  Vabate  Vaba	Frequency control voltage 2	Hz	0 - 0
Voltage type of supply voltage  AC  Max. incandescent lamp load  W  0  Max. load fluorescent lamp (Duo circuit)  VA  0  Max. load fluorescent lamp (parallel compensated)  VA  0	Rated current	А	20
Max. load fluorescent lamp (Duo circuit)  Max. load fluorescent lamp (parallel compensated)  W  0  WA  0  Max. load fluorescent lamp (parallel compensated)  VA  0	Supply voltage	V	250 - 250
Max. load fluorescent lamp (Duo circuit)  Max. load fluorescent lamp (Duo circuit)  VA  0  Max. load fluorescent lamp (parallel compensated)  VA  0	Voltage type of supply voltage		AC
Max. load fluorescent lamp (Duo circuit)  VA  0  Max. load fluorescent lamp (parallel compensated)  VA  0	Max. incandescent lamp load	W	0
Max. load fluorescent lamp (parallel compensated)  VA 0	Max. load fluorescent lamp	VA	0
	Max. load fluorescent lamp (Duo circuit)	VA	0
Max. switching current (cos phi = 0.6)	Max. load fluorescent lamp (parallel compensated)	VA	0
	Max. switching current (cos phi = 0.6)	Α	0