## **DATASHEET - Z-R24/16-20**



Installation relay, 24 V AC, 2NO, 16A

Part no. Catalog No.

Z-R24/16-20 ICS-R16A024B200

4100204



**EL-Nummer** (Norway)

Similar to illustration

## **Design verification as per IEC/EN 61439**

Technical data for design verification			
Rated operational current for specified heat dissipation	l <sub>n</sub>	А	16
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	1.4
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## **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])

Function		Mechanical
Mounting method		DIN rail
Width in number of modular spacings		1
Built-in depth	mm	60
Number of contacts as normally open contact		2
Number of contacts as normally closed contact		0

Control voltage 1   Image: Control voltage 2   Image: Control voltage				
Frequency control voltage 1     A       Frequency control voltage 1     Frequency control voltage 2     V     0       Control voltage 2     V     0     0       Frequency control voltage 2     I     X     X       Frequency control voltage 2     I     X     X       Stated current     I     X     X     X       Supply voltage     X     X     X     X       Voltage 1     X     X     X     X       Value 1     X     X     X     X       Value 2     X     X     X     X     X       Voltage type of supply voltage     X     <	Number of contacts as change-over contact			0
Frequency control voltage 1   Image: Control voltage 2   V   0 - 0     Supp of control voltage 2   Image: Control voltage 2   Control voltage 2   Image: Control voltage 2     Frequency control voltage 2   Image: Control voltage 2   Image: Control voltage 2   Image: Control voltage 2     Frequency control voltage 2   Image: Control voltage 2   Image: Control voltage 2   Image: Control voltage 2     Frequency control voltage 2   Image: Control voltage 2   Image: Control voltage 2   Image: Control voltage 2     Frequency control voltage 2   Image: Control voltage 2   Image: Control voltage 2   Image: Control voltage 2     Frequency control voltage 2   Image: Control voltage 2   Image: Control voltage 2   Image: Control voltage 2     Supply voltage   Image: Control voltage 2   Image: Control voltage 2   Image: Control voltage 2     Voltage type of supply voltage   Image: Control voltage 2   Image: Control voltage 2   Image: Control voltage 2     Vat. Incand fluorescent lamp load   Image: Control voltage 2   Image: Control voltage 2   Image: Control voltage 2     Vat. Incand fluorescent lamp (parallel compensated)   Image: Control voltage 2   Image: Control voltage 2   Image: Control voltage 2     Vat. Image: Control voltage 2 <td< td=""><td>Control voltage 1</td><td>١</td><td>V</td><td>21 - 26</td></td<>	Control voltage 1	١	V	21 - 26
Control voltage 2   V   0     Fype of control voltage 2   AC     Frequency control voltage 2   Hz   0     Grequency control voltage 2   A   10     Supply voltage 2   A   10     Supply voltage 2   A   10     Supply voltage 2   A   10     Voltage type of supply voltage   V   240     Voltage type of supply voltage   V   20     Vax. incandescent lamp load   V   20     Max. load fluorescent lamp (Duo circuit)   VA   303     Max. load fluorescent lamp (parallel compensated)   VA   21	Type of control voltage 1			AC
For each or indication     Action       Frequency control voltage 2     Frequency control voltage 2     0       Frequency control voltage 2     Frequency control voltage 2     0       Rated current     Frequency control voltage 2     0       Supply voltage     Frequency control voltage 2     16       Supply voltage     V     240-240       Voltage type of supply voltage     V     240-240       Max. incandescent lamp load     V     70       Max. load fluorescent lamp (Duo circuit)     VA     303       Max. load fluorescent lamp (parallel compensated)     VA     240	Frequency control voltage 1	H	Hz	50 - 60
Frequency control voltage 2Hz0Rated currentA6Supply voltageV240-240/oltage type of supply voltageVACMax. incandescent lamp loadVA20Max. load fluorescent lamp (Duo circuit)VAVAMax. load fluorescent lamp (parallel compensated)VAYAMax. load fluorescent lamp (parallel compensated)YAYAMax. load fluorescent lamp (parallel compensated)YAYA	Control voltage 2	١	V	0 - 0
Rated current A 16   Supply voltage V 240 - 240   Voltage type of supply voltage V A   Max. incandescent lamp load V 720   Max. load fluorescent lamp (Duo circuit) VA 303   Max. load fluorescent lamp (parallel compensated) VA 240	Type of control voltage 2			AC
Supply voltage V 240 - 240   /oltage type of supply voltage AC   Max. incandescent lamp load W 20   Max. load fluorescent lamp (Duo circuit) VA 303   Max. load fluorescent lamp (parallel compensated) VA 541	Frequency control voltage 2	H	Hz	0 - 0
Act   Valtage type of supply voltage AC   Max. incandescent lamp load WW   Valtage type of supply voltage VM   Valtage type of supply voltage VM <td>Rated current</td> <td>ŀ</td> <td>A</td> <td>16</td>	Rated current	ŀ	A	16
Max. incandescent lamp load W 720   Max. load fluorescent lamp (Duo circuit) VA 303   Max. load fluorescent lamp (parallel compensated) VA 541	Supply voltage	١	V	240 - 240
Max. load fluorescent lamp (Duo circuit) VA 303   Max. load fluorescent lamp (parallel compensated) VA 541	Voltage type of supply voltage			AC
Max. load fluorescent lamp (Duo circuit) VA 541   Max. load fluorescent lamp (parallel compensated) VA 271	Max. incandescent lamp load	١	W	720
Max. load fluorescent lamp (parallel compensated) VA 271	Max. load fluorescent lamp	١	VA	303
	Max. load fluorescent lamp (Duo circuit)	١	VA	541
Now puttering current (and phi $-0.6$ )	Max. load fluorescent lamp (parallel compensated)	١	VA	271
viax. switching current (cos pin = 0.0)	Max. switching current (cos phi = 0.6)	ŀ	A	5