## **DATASHEET - Z-R230/16-20**



Installation relay, 230 V AC, 2NO, 16A

Part no. Z-R230/16-20 Catalog No. ICS-R16A230B200

EL-Nummer (Norway)

4100202



Similar to illustration

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

Design vernication as per icc/civ 01433			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	16
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	1.6
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         V         196 - 250           Type of control voltage 1         AC           Control voltage 2         V         0 - 0           Type of control voltage 2         AC           Frequency control voltage 2         AC           Frequency control voltage 2         AC           Rated current         A         16           Supply voltage         V         240 - 240           Voltage type of supply voltage         AC           Max. incandescent lamp load         W         720           Max. load fluorescent lamp (Duo circuit)         VA         541           Max. load fluorescent lamp (parallel compensated)         VA         271			
Fige of control voltage 1 Frequency control voltage 1 Frequency control voltage 2 Frequency control voltage 3 Frequency control voltage 3 Frequency control voltage 4 Freq	Number of contacts as change-over contact		0
Frequency control voltage 1  Control voltage 2  V  0 - 0  Type of control voltage 2  AC  Frequency control voltage 2  Hz  0 - 0  Rated current  A  16  Supply voltage  V  240 - 240  Voltage type of supply voltage  VA  Xax. load fluorescent lamp (Duo circuit)  VA  VA  VA  VA  VA  VA  VA  VA  VA  V	Control voltage 1	V	196 - 250
Control voltage 2  Vy 0 - 0  Type of control voltage 2  AC  Frequency control voltage 2  Hz 0 - 0  Rated current  A 16  Supply voltage Vy 240 - 240  Voltage type of supply voltage Voltage type of supply voltage Voltage type of supply voltage Vy 240 - 240  Voltage type of supply voltage Vy 270  Max. load fluorescent lamp (Duo circuit)  Vy 303  Max. load fluorescent lamp (parallel compensated)  Vy 271	Type of control voltage 1		AC
Type of control voltage 2  Hz 0 - 0  Rated current  A 16  Supply voltage  Voltage type of supply voltage  Wax. incandescent lamp load  Wax. load fluorescent lamp (Duo circuit)  Wax. load fluorescent lamp (parallel compensated)  A C  Wax. load fluorescent lamp (parallel compensated)  Wax. load fluorescent lamp (parallel compensated)	Frequency control voltage 1	Hz	50 - 60
Frequency control voltage 2  Rated current  A 16  Supply voltage  V 240 - 240  Ac  Max. incandescent lamp load  W 720  Max. load fluorescent lamp (Duo circuit)  Max. load fluorescent lamp (parallel compensated)  VA 271	Control voltage 2	V	0 - 0
Rated current  A 16 Supply voltage  V 240 - 240  Voltage type of supply voltage  AC  Max. incandescent lamp load  W 720  Max. load fluorescent lamp (Duo circuit)  VA 541  Max. load fluorescent lamp (parallel compensated)  VA 271	Type of control voltage 2		AC
Supply voltage  V 240 - 240  Voltage type of supply voltage  AC  Max. incandescent lamp load  W 720  Max. load fluorescent lamp (Duo circuit)  VA 303  Max. load fluorescent lamp (parallel compensated)  VA 271	Frequency control voltage 2	Hz	0 - 0
Voltage type of supply voltage  Max. incandescent lamp load  W 720  Max. load fluorescent lamp  VA 303  Max. load fluorescent lamp (Duo circuit)  VA 541  Max. load fluorescent lamp (parallel compensated)  VA 271	Rated current	Α	16
Max. Ioad fluorescent lamp (Duo circuit)  Wax. load fluorescent lamp (Duo circuit)  Wax. load fluorescent lamp (parallel compensated)  Wax. load fluorescent lamp (parallel compensated)  Wax. load fluorescent lamp (parallel compensated)	Supply voltage	V	240 - 240
Max. load fluorescent lamp  VA 303  Max. load fluorescent lamp (Duo circuit)  VA 541  Max. load fluorescent lamp (parallel compensated)  VA 271	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	W	720
Max. load fluorescent lamp (parallel compensated)  VA 271	Max. load fluorescent lamp	VA	303
The state of the s	Max. load fluorescent lamp (Duo circuit)	VA	541
Max. switching current (cos phi = 0.6)	Max. load fluorescent lamp (parallel compensated)	VA	271
	Max. switching current (cos phi = 0.6)	Α	5