Product data sheet
Characteristics

RM22UB34
voltage control relay, Harmony Control Relays, 8A, 2CO, 80...300V AC DC, 110...240V AC DC



Main

Range of product	Harmony Control Relays
Relay type	Voltage control relay
Product or component type	Voltage control relay
Relay name	RM22UA
Relay monitored parameters	Overvoltage and undervoltage detection
Control type	With test button
Contacts type and composition	2 C/O
Network number of phases	1 phase
Supply circuit type	AC/DC

Complementary

[Us] rated supply voltage	110...240 V AC/DC 50/60 Hz, non self-powered
Supply voltage limits	60…280 V AC
Power consumption in VA	5 VA AC
Measurement range	80...300 V AC/DC
Maximum measuring cycle	250 Ms measurement cycle as true rms value
Hysteresis	5 % fixed of threshold setting
Repeat accuracy	+/- 0.5 % for input and measurement circuit +/- 2 % for time delay
Measurement error	< 1 % over the whole range with voltage variation
Time delay type	Adjustable 0.1...30 s, +/- 10 % of the full scale value Tt- time delay upon fault
Setting accuracy of time delay	10 %
Reset time	1500 Ms at maximum voltage
Response time	<= 500 ms
Run-up delay at power-up	600 Ms
Output contacts	2 C/O
Nominal output current	8 A
Maximum switching voltage	250 V AC
Switching capacity in VA	2000 VA
Minimum switching current	10 MA at 5 V DC
Maximum switching current	8 A AC
Electrical durability	100000 Cycles
Mechanical durability	10000000 Cycles
Contacts material	Cadmium free
Maximum power consumption in W	2 W DC

Environment

Electromagnetic compatibility	Immunity for residential, commercial and light-industrial environments conforming to IEC 61000-6- Immunity for industrial environments conforming to IEC 61000-6-2 Emission standard for residential, commercial and light-industrial environments conforming to IEC Emission standard for industrial environments conforming to IEC 61000-6-4 Electrostatic discharge - test level: 6 kV level 3 (contact discharge) conforming to IEC 61000-4-2 Electrostatic discharge - test level: 8 kV level 3 (air discharge) conforming to IEC 61000-4-2
Standards	IEC 60255-1
Product certifications	CCC[RETURN]CE[RETURN]CSA[RETURN]EAC[RETURN]UL[RETURN]GL[RETURN]RCM
Ambient air temperature for storage	-40…70 °C -40…70 °C
Ambient air temperature for operation	-20…50 °C at 60 Hz -20…60 °C at 50 Hz
Relative humidity	93…97 % at 25…55 °C conforming to IEC 60068-2-30
Vibration resistance	0.075 mm (f= 10…58.1 Hz) not in operation conforming to IEC 60068-2-6 1 gn (f= 10…58.1 Hz) not in operation conforming to IEC 60068-2-6 0.035 mm (f= 58.1…150 Hz) in operation conforming to IEC 60068-2-6 0.5 gn (f= 58.1…150 Hz) in operation conforming to IEC 60068-2-6
Shock resistance	15 gn (duration = 11 ms) for not in operation conforming to IEC 60068-2-27 5 gn (duration = 11 ms) for in operation conforming to IEC 60068-2-27
IP degree of protection	IP20 (terminals) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529 IP50 (front panel) conforming to IEC 60529
Pollution degree	3 conforming to IEC 60664-1
Overvoltage category	III conforming to IEC 60664-1
Dielectric test voltage	2.5 KV, 1 min AC 50 Hz conforming to IEC 60255-27
Insulation resistance	> 100 MOhm at 500 V DC
Connections - terminals	Screw terminals, 2 x 0.5...2 x 2.5 mm² (20 AWG...14 AWG) solid without cable end Screw terminals, 2 x 0.2...2 x 1.5 mm² (24 AWG...16 AWG) flexible with cable end Screw terminals, 1 x 0.5...1 x 3.3 mm² (20 AWG...12 AWG) solid without cable end Screw terminals, 1 x 0.2...1 x 2.5 mm² (24 AWG...14 AWG) flexible with cable end
Tightening torque	0.6…1 N.M conforming to IEC 60947-1
Housing material	Polycarbonate
Mounting support	35 mm DIN rail conforming to IEC 60715
Safety reliability data	MTTFd = 433.7 years B10d = 400000
Height	90 Mm 88.9 Mm
Width	22.5 Mm 22.9 Mm
Depth	73 Mm 73.7 Mm
Net weight	0.09 Kg 0.09 Kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.6 Cm
Package 1 Width	8.2 Cm
Package 1 Length	9.5 Cm
Package 1 Weight	104.0 G
Unit Type of Package 2	S02
Number of Units in Package 2	40
Package 2 Height	15 Cm
Package 2 Width	30 Cm
Package 2 Length	40 Cm
Package 2 Weight	4.58 Kg
Unit Type of Package 3	P06
Number of Units in Package 3	640
Package 3 Height	80.0 Cm

Package 3 Width	80.0 Cm
Package 3 Length	60.0 Cm
Package 3 Weight	86.18 Kg

Offer Sustainability

Recyclability potential, in %	18
Total lifecycle Carbon footprint	43 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	2.131896962905749
Carbon footprint of the manufacturing phase [A1 to A3]	2 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.0720345820988459
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0006668882063154412
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	40.75904111642341
Carbon footprint of the use phase [B2, B3, B4, B6]	41 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.24781338557734375
Carbon footprint of the end-of-life phase [C1 to C4]	0.2 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	43
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	5e3fdf99-611b-4d07-ad17-6eba84ab488b
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised