Product data sheet
Characteristics

RM35BA10
pump control relay, Harmony Control Relays, 5A, 1CO, 208...480V AC



Main

Range of product	Harmony Control Relays
Relay type	Pump control relays
Product or component type	Pump control relay
Product specific application	For 3-phase and single-phase pump
Relay name	RM35BA
Relay monitored parameters	Overcurrent and undercurrent control Phase sequence on 3-phase supply Phase failure on 3-phase supply
Time delay type	Adjustable 1...60 s, +/- 10 % Ti- inhibition time delay upon startup Adjustable 0.1...10 s, +/- 10 % Tt- time delay upon fault
Switching capacity in VA	1250 VA
Minimum switching current	10 MA at 5 V DC
Maximum switching current	5 A AC/DC
Maximum power consumption in VA	5 VA AC
Measurement range	1...10 A 208...480 V AC
Utilisation category	AC-12 conforming to IEC 60947-5-1 AC-13 conforming to IEC 60947-5-1 AC-14 conforming to IEC 60947-5-1 AC-15 conforming to IEC 60947-5-1 DC-12 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1

Complementary

Reset time	2000 Ms
Maximum switching voltage	250 V AC/DC
[Us] rated supply voltage	208...480 V AC 50/60 Hz, non self-powered 230 V AC 50/60 Hz, non self-powered
Supply voltage limits	183…528 V AC
Control circuit voltage limits	- 15 % + 10 % Un
Resistance across terminals	0.01 Ohm at E1-L2 terminals
Width	35 Mm
Output contacts	1 C/O
Nominal output current	5 A
Maximum measuring cycle	140 Ms as true rms value
Run-up delay at power-up	0.5 S
Hysteresis	5 % of threshold
Measurement accuracy	+/- 10 % of the full scale value
Repeat accuracy	+/- 1 % for input and measurement circuit +/- 1 % for time delay

Measurement error	1 % by volt over the whole range +/- 0.05 %/°C
Response time	< 300 ms (in the event of a fault)
Input current	11 A permanent at 25 °C E1-L2 terminals 50 A non repetitive < 1 s at 25 °C E1-L2 terminals
Marking	CE : EMC 89/336/EEC CE : 73/23/EEC
Overvoltage category	III conforming to IEC 60664-1
Insulation resistance	> 500 MOhm at 500 V DC between supply and relay output conforming to 60255-5 > 500 MOhm at 500 V DC between measurement and relay output conforming to 60664-1 > 1 MOhm at 500 V DC between supply and measurement conforming to 60255-5 > 500 MOhm at 500 V DC between supply and relay output conforming to 60664-1 > 500 MOhm at 500 V DC between measurement and relay output conforming to 60255-5 > 1 MOhm at 500 V DC between supply and measurement conforming to 60664-1
[Ui] rated insulation voltage	400 V conforming to IEC 60664-1
Supply frequency	50/60 Hz +/- 10 %
Operating position	Any position
Connections - terminals	Screw terminals, 1 x 0.5...1 x 4 mm² (20 AWG...11 AWG) solid without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm² (20 AWG...14 AWG) solid without cable end Screw terminals, 1 x 0.2...1 x 2.5 mm² (24 AWG...12 AWG) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm² (24 AWG...16 AWG) flexible with cable end
Tightening torque	0.6…1 N.M conforming to IEC 60947-1
Housing material	Polycarbonate
Status LED	1 LED green for power ON 1 LED yellow for fault 1 LED yellow for relay ON
Mounting support	35 mm symmetrical DIN rail conforming to IEC 60715
Electrical durability	100000 Cycles
Mechanical durability	30000000 Cycles
Operating rate	<= 360 operations/hour full load
Control type	Without test button

Environment

Immunity to microbreaks	500 Ms
Electromagnetic compatibility	Emission standard for industrial environments conforming to IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to IEC Immunity for industrial environments conforming to NF EN/IEC 61000-6-2
Standards	IEC 60255-6
Product certifications	C-Tick[RETURN]CSA[RETURN]GOST[RETURN]UL[RETURN]GL
Ambient air temperature for storage	-40…70 °C
Ambient air temperature for operation	-20…50 °C
Relative humidity	95 % at 55 °C conforming to IEC 60068-2-30
Vibration resistance	0.35 mm (f= 5…57.6 Hz) conforming to IEC 60068-2-6/IEC 60255-21-1 1 gn (f= 57.6…150 Hz) conforming to IEC 60068-2-6/IEC 60255-21-1
Shock resistance	15 gn for 11 ms conforming to IEC 60255-21-1
IP degree of protection	IP20 (terminals) conforming to IEC 60529 IP30 (casing) conforming to IEC 60529
Pollution degree	3 conforming to IEC 60664-1
Dielectric strength	2 KV AC 50 Hz (shock wave 4 kV)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.0 Cm
Package 1 Width	4.6 Cm
Package 1 Length	9.7 Cm
Package 1 Weight	123.0 G
Unit Type of Package 2	S03
Number of Units in Package 2	48
Package 2 Height	30.0 Cm
Package 2 Width	30.0 Cm

Package 2 Length	40.0 Cm
Package 2 Weight	6.526 Kg

Offer Sustainability

Recyclability potential, in %	8
Total lifecycle Carbon footprint	102 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	8.282465095986037
Carbon footprint of the manufacturing phase [A1 to A3]	8 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.016084271378708548
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.03990970767888307
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	93.82239999999997
Carbon footprint of the use phase [B2, B3, B4, B6]	94 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.23091121291448516
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	102
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