Product data sheet

Specifications





Harmony, Modular 1-phase current control relay, 5 A, 2 CO, 0.15...15 A,, 24...240 V AC/DC

RM35JA32MW



Main

Range of product	Harmony Control Relays
Product or component type	Current control relay
Relay type	Current control relay
Relay name	RM35JA
Relay monitored parameters	Overcurrent or undercurrent detection
Time delay	Adjustable 120 s, 0 + 10 % on energisation Ti Adjustable 0.330 s, 0 + 10 % on crossing the threshold Tt
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	3.5 VA AC
Measurement range	0.151.5 A E1-M terminals 0.55 A E2-M terminals 1.515 A E3-M terminals 150 mA15 A current
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 DC-14 conforming to IEC 60947-5-1
Contacts type and composition	2 C/O

Complementary

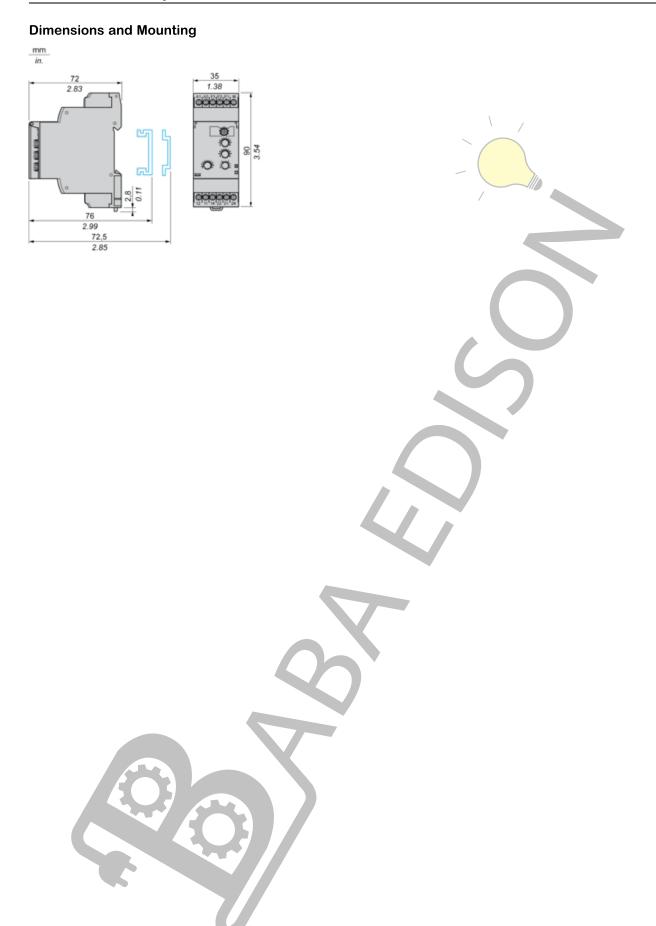
Reset time	1500 ms time delay
Maximum switching voltage	250 V AC/DC
[Us] rated supply voltage	24240 V AC/DC 50/60 Hz +/- 10 %
Supply voltage limits	20.4264 V AC/DC
Operating voltage tolerance	- 15 % + 10 % Un
Maximum power consumption in W	0.6 W DC
Control circuit frequency	4070 Hz +/- 10 %
Resistance across terminals	0.005 Ohm at E3-M terminals 0.015 Ohm at E2-M terminals 0.05 Ohm at E1-M terminals

Output contracts 2 C/C Commission display current Maximum measuring cycle 3 on measurement cycle as true may value Physotropis 5 9 % of threshold setting Delay at power up 0.3 s Measurement accuracy +1- 0 % of the full scale value Repeat accuracy +2- 0.6 % for long and measurement circuit +2- 0.6 % for long and measurement circuit +2- 0.6 % for long and measurement circuit Polarity No DC Threshold setting 10, 100 % Marking CE EMA GRASHED CE EMA GRASHED CE EMA GRASHED CE TABLE SETTION and 2000 V DC Extreme supply and relay qualut conforming to EC 00054.5 Insulation resistance > 500 Mohm at 2000 V DC Extreme supply and relay qualut conforming to EC 00054.5 Insulation voltage > 500 Mohm at 2000 V DC Extreme supply and relay qualut conforming to EC 00054.1 (Ui) rated insulation voltage 250 V conforming to EC 00054.1 (Ui) rated insulation voltage 250 V conforming to EC 00054.1 (Ui) rated insulation voltage 250 V conforming to EC 00054.1 (Ui) rated insulation voltage 250 V conforming to EC 00054.1 (Uii) rated insulation voltage 250 V co		
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Hysteresis S 50 % of threshold setting	Nominal output current	5 A
Delay at power up 0.3 a	Maximum measuring cycle	30 ms measurement cycle as true rms value
Measurement accuracy	Hysteresis	550 % of threshold setting
Repeat accuracy +/- 0.5 % for insul and measurement circuit +/- 2 % for time dalay Measurement error 0.05 % for over the whole range with voltage variation 1 by volt over the whole range with voltage variation 1 by volt over the whole range with voltage variation 1 by volt over the whole range with voltage variation 1 by volt over the whole range with voltage variation 1 by volt over the whole range with voltage variation 1 by volt over the whole range with voltage variation 1 by volt over the whole range with voltage variation 1 by volt over the whole range with voltage variation 1 by volt over the whole range variation 1 by volt over the v	Delay at power up	0.3 s
Measurement error 0.05 %PC with temperature variation 10 yes for each whole range with voltage variation 10 yes for each whole range with voltage variation 10 yes for each whole range with voltage variation 10 yes for each whole range with voltage variation 10 yes for each whole range with voltage variation 10 yes for each with voltage variation resistance 10 yes for each with voltage variation value variation resistance 10 yes for each with voltage variation value variation value variation value variation voltage value variation value valu	Measurement accuracy	+/- 10 % of the full scale value
1 by voil over the whole range with voltage variation No DC Threshold setting 10100 % Marking CE: EMC 89/30/EEC CE: 73/23/EEC Overvoltage category Ill conforming to IEC 60/68/4-1 Insulation resistance > 600 MChm at 500 V DC between supply and relay output conforming to IEC 60/68/4-1 > 1 MOhm at 500 V DC between measurement and relay output conforming to IEC 60/68/4-1 > 1 MOhm at 500 V DC between supply and nessure-tent conforming to IEC 60/68/4-1 > 1 MOhm at 500 V DC between supply and relative transforming to IEC 60/68/4-1 > 1 MOhm at 500 V DC between supply and relative transforming to IEC 60/68/4-1 > 1 MOhm at 500 V DC between supply and relative transforming to IEC 60/68/4-1 > 1 MOhm at 500 V DC between supply and relative transforming to IEC 60/68/4-1 (UI) rated insulation voltage 250 V conforming to IEC 60/68/4-1 Any position Any position without dearling Connections - terminals Scrow terminals 1 x 0.2.1 x 1 x 1 mpr (AV/92 30 - AV/02 11) solid without cable and Scrow terminals 2 x 0.5 5.2 x 2 5 mpr (AV/02 40 - AV/02 12) solid without cable and Scrow terminals 1 x 0.2.1 x 1 5 mpr (AV/02 40 - AV/02 12) solid without cable and Scrow terminals 1 x 0.2.1 x 1 5 mpr (AV/02 40 - AV/02 12) solid without cable and Scrow terminals 1 x 0.2.1 x 1 5 mpr (AV/02 40 - AV/02 12) solid without cable and Scrow terminals 1 x 0.2.1 x 1 5 mpr (AV/02 40 - AV/02 12) solid without cable and Scrow terminals 1 x 0.2.1 x 1 5 mpr (AV/02 40 - AV/02 12) solid without cable and Scrow terminals 1 x 0.2.1 x 1 5 mpr (AV/02 40 - AV/02 12) solid without cable and Scrow terminals 1 x 0.2 x 1 x 5 mpr (AV/02 40 - AV/02 12) solid without cable and Scrow terminals 1 x 0.2 x 1 x 5 mpr (AV/02 40 - AV/02 12) solid without cable and Scrow terminals 2 x 0.2 x 1 5 mpr (AV/02 40 - AV/02 12) solid without cable and Scrow terminals 2 x 0.2 x 1 5 mpr (AV/02 40 - AV/02 12) solid without cable and Scrow terminals 2 x 0.2 x 1 5 mpr (AV/02 40 - AV/02 12) solid without cable and Scrow terminals 2 x 0.2 x 1 5 mpr (AV/02 40 - AV/02 12) solid without	Repeat accuracy	
Threshold setting 10100 % Marking CE:EMC 89/358/EEC CE: 73/23/EEC Overvoltage category III conforming to IEC 60084-1 Insulation resistance	Measurement error	
Marking CE : EMC 88/336/EEC CE : 73/23/EEC Overvoltage category Ill conforming to IEC 60664-1 Insulation resistance > 500 MOhm at 500 V DC between supply and relay dubut conforming to IEC 60664-1 > Mohm at 500 V DC between measurement and relay output conforming to IEC 60664-1 > Mohm at 500 V DC between supply and measurement and relay output conforming to IEC 60265-5 > 500 MOhm at 500 V DC between measurement and relay output conforming to IEC 60265-5 > 1 MOhm at 500 V DC between measurement and relay output conforming to IEC 60265-5 > 1 MOhm at 500 V DC between measurement and relay output conforming to IEC 60265-5 > 1 MOhm at 500 V DC between measurement and relay output conforming to IEC 60265-5 > 1 MOhm at 500 V DC between measurement and relay output conforming to IEC 60265-5 > 1 MOhm at 500 V DC between measurement and relay output conforming to IEC 60265-5 > 1 MOhm at 500 V DC between measurement and relay output conforming to IEC 60265-5 > 1 MOhm at 500 V DC between measurement and relay output conforming to IEC 60265-1 Connections - terminals - 1 Mohm at 500 V DC between supply and measurement conforming to IEC 60265-1 Connections - terminals - 1 Mohm at 500 V DC between supply and measurement conforming to IEC 60265-1 Connections - terminals - 1 Mohm at 500 V DC between supply and measurement conforming to IEC 60265-1 Connections - terminals - 1 Mohm at 500 V DC between supply and measurement conforming to IEC 60265-1 Connections - terminals - 1 Mohm at 500 V DC between supply and measurement conforming to IEC 60265-1 Connections - terminals - 1 Mohm at 500 V DC between supply and measurement conforming to IEC 60265-1 Connections - terminals - 1 Mohm at 500 V DC between supply and measurement conforming to IEC 60265-1 Conformation - 1 Mohm at 500 V DC between supply and measurement conforming to IEC 60265-1 Conformation - 1 Mohm at 500 V DC between supply and measurement conforming to IEC 60265-1 Conformation - 1 Mohm at 500 V DC between conforming to IEC 60265-1 Conformation - 1 Mohm at 5	Polarity	No DC
Overvoltage category Ill conforming to IEC 60684-1 Insulation resistance > 500 MOhm at 500 V DC between supply and relay cultiput conforming to IEC 60684-1 > 1 MOhm at 500 V DC between measurement and felay output conforming to IEC 60684-1 > 500 MOhm at 500 V DC between supply and relay output conforming to IEC 60684-1 > 500 MOhm at 500 V DC between supply and relay output conforming to IEC 60684-1 > 500 MOhm at 500 V DC between supply and relay output conforming to IEC 60088-1 > 1 MOhm at 500 V DC between supply and measurement conforming to IEC 60088-1 > 1 MOhm at 500 V DC between supply and measurement conforming to IEC 600864-1 [Ui] rated insulation voltage Operating position Any position without derating Connections - terminals Screw terminals, 1 x 0.5, 1 x 4 mm² (AWG 20, AWG 11) solid without cable end Screw terminals, 2 x 0.5 mm² (AWG 20, AWG 11) solid without cable end Screw terminals, 2 x 0.5 mm² (AWG 24, AWG 12) flexible with cable end Screw terminals, 2 x 0.2, 2 x 1 5 mm² (AWG 24, AWG 12) flexible with cable end Screw terminals, 2 x 0.2 mm² (AWG 24, AWG 12) flexible with cable end Screw terminals, 2 x 0.2 mm² (AWG 24, AWG 12) flexible with cable end Screw terminals, 2 x 0.2 mm² (AWG 24, AWG 12) flexible with cable end Screw terminals, 2 x 0.2 mm² (AWG 24, AWG 16) flexible with cable end Screw terminals, 2 x 0.2 mm² (AWG 24, AWG 16) flexible with cable end Screw terminals, 2 x 0.2 mm² (AWG 24, AWG 16) flexible with cable end Screw terminals, 2 x 0.2 mm² (AWG 24, AWG 16) flexible with cable end Screw terminals, 2 x 0.2 mm² (AWG 24, AWG 16) flexible with cable end Screw terminals, 2 x 0.2 mm² (AWG 24, AWG 16) flexible with cable end Screw terminals, 2 x 0.2 mm² (AWG 24, AWG 16) flexible with cable end Screw terminals, 2 x 0.2 mm² (AWG 24, AWG 16) flexible with cable end Screw terminals, 2 x 0.2 mm² (AWG 24, AWG 16) flexible with cable end Screw terminals, 2 x 0.2 mm² (AWG 24, AWG 16) flexible with cable end Screw terminals, 2 x 0.2 mm² (AWG 24, AWG 16) flexible with cable end Screw terminals, 2	Threshold setting	10100 %
Insulation resistance	Marking	
\$ 500 MORm at 500 V DC between measurement and relay output conforming to IEC 60854-1	Overvoltage category	III conforming to IEC 60664-1
Operating position Any position without derating Connections - terminals Screw terminals, 1 x 0.51 x 4 mm² (AWG 20AWG 11) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm² (AWG 20AWG 14) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm² (AWG 20AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 18) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 18) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 18) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 18) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 18) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 18) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 18) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 18) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 18) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 18) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 18) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 18) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 18) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 18) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 18) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 18) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 18) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 18) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 18) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 18)	Insulation resistance	 > 500 MOhm at 500 V DC between measurement and relay output conforming to IEC 60664-1 > 1 MOhm at 500 V DC between supply and measurement conforming to IEC 60255-5 > 500 MOhm at 500 V DC between supply and relay output conforming to IEC 60664-1 > 500 MOhm at 500 V DC between measurement and relay output conforming to IEC 60255-5
Connections - terminals Screw terminals, 1 x 0.51 x 4 mm² (AWG 20AWG 11) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm² (AWG 20AWG 14) solid without cable end Screw terminals, 1 x 0.51 x 4 mm² (AWG 20AWG 14) else/ble with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 12) flex/ble with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 16) flex/ble with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 16) flex/ble with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 16) flex/ble with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 16) flex/ble with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 16) flex/ble with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 16) flex/ble with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 16) flex/ble with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 16) flex/ble with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 16) flex/ble with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 16) flex/ble with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 16) flex/ble with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 16) flex/ble with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 16) flex/ble with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 16) flex/ble with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 16) flex/ble with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 16) flex/ble with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 16) flex/ble with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 16) flex/ble with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 16) flex/ble with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 16) flex/ble with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 20AWG 16) flex/ble with cable end Screw terminals, 2 x 0.22	[Ui] rated insulation voltage	250 V conforming to IEC 60664-1
Screw terminals, 2 x 0.5 2 x 2.5 mim² (AWG 20AWG 14) solid without cabble end Screw terminals, 1 x 0.2 1 x 2.5 mm² (AWG 24AWG 16) flexible with cabble end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cabble end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cabble end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cabble end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cabble end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cabble end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cabble end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cabble end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cabble end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cabble end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cabble end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cabble end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cabble end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cabble end Screw terminals, 2 x 0.2 2 x 1.5 mm² (AWG 24AWG 16) flexible with cabble end screw flexible end Screw flexible with cabble end flexible with cabble violence of the flexible with cabble violence flexible with cabble violence flexible with cabble	Operating position	Any position without derating
Housing material Local signalling LED (green) for power ON LED (yellow) for relay ON Mounting support 35 mm symmetrical DIN rall conforming to EN/IEC 60715 Electrical durability 100000 cycles Mechanical durability 30000000 cycles Operating rate <= 360 operations/hour full load Safety reliability data MTTEd = 296.8 years B10d = 270000 Contacts material Cadmium free Width 35 mm Net weight 0,18 kg Environment Immunity to microbreaks 50 ms Electromagnetic compatibility Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-2 Standards EN/IEC 60255-6 Product certifications GL UL GOST C-Tick	Connections - terminals	Screw terminals, $2 \times 0.52 \times 2.5 \text{ mm}^2$ (AWG 20AWG 14) solid without cable end Screw terminals, $1 \times 0.21 \times 2.5 \text{ mm}^2$ (AWG 24AWG 12) flexible with cable end
Local signalling LED (green) for power ON LED (yellow) for relay ON Mounting support 35 mm symmetrical DIN rail conforming to EN/IEC 60715 Electrical durability 100000 cycles Mechanical durability 30000000 eycles Operating rate <= 360 operations/hour full load Safety reliability data MTTFd = 296.8 years B10d = 270000 Contacts material Cadmium free Width 35 mm Net weight O,13 kg Environment Immunity to microbreaks 50 ms Electromagnetic compatibility Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-2 Standards EN/IEC 60255-6 Product certifications GL UL GOST C-Tick	Tightening torque	0.61 N.m conforming to IEC 60947-1
LED (yellow) for relay ON Mounting support 35 mm symmetrical DIN rall conforming to EN/IEC 60715 Electrical durability 100000 cycles Mechanical durability 30000000 cycles Operating rate <= 360 operations/hour full load Safety reliability data MTFd = 296.8 years B10d = 270000 Contacts material Cadmium free Width 35 mm Net weight 0.13 kg Environment Immunity to microbreaks 50 ms Electromagnetic compatibility Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-2 Standards EN/IEC 60255-6 Product certifications GL UL GOST C-Trick	Housing material	Self-extinguishing plastic
Electrical durability 100000 cycles Mechanical durability 30000000 cycles Operating rate <= 360 operations/hour full load Safety reliability data MTTFd = 296.8 years B10d = 270000 Contacts material Cadmium free Width 35 mm Net weight 0.13 kg Environment Immunity to microbreaks Electromagnetic compatibility Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-2 Standards EN/IEC 60255-6 Product certifications GL UL GOST C-Tick	Local signalling	
Mechanical durability 3000000 cycles Operating rate <= 360 operations/hour full load Safety reliability data MTTFd = 296.8 years B10d = 270000 Contacts material Cadmium free Width 35 mm Net weight 0.13 kg Environment Immunity to microbreaks 50 ms Electromagnetic compatibility Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-2 Standards EN/IEC 60255-6 Product certifications GL UL GOST C-Tick	Mounting support	35 mm symmetrical DIN rail conforming to EN/IEC 60715
Operating rate <= 360 operations/hour full load Safety reliability data MTTFd = 296.8 years B10d = 270000 Contacts material Cadmium free Width 35 mm Net weight 0.13 kg Environment Immunity to microbreaks 50 ms Electromagnetic compatibility Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-2 Standards EN/IEC 60255-6 Product certifications GL UL GOST C-Tick	Electrical durability	100000 cycles
Safety reliability data MTTFd = 296.8 years B10d = 270000 Contacts material Cadmium free Width 35 mm Net weight Environment Immunity to microbreaks Electromagnetic compatibility Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-2 Standards EN/IEC 60255-6 Product certifications GL UL GOST C-Tick	Mechanical durability	30000000 cycles
Contacts material Cadmium free Width 35 mm Net weight 0,13 kg Environment Immunity to microbreaks 50 ms Electromagnetic compatibility Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Immunity for industrial environments conforming to NF EN/IEC 61000-6-2 Standards EN/IEC 60255-6 Product certifications GL UL GOST C-Tick	Operating rate	<= 360 operations/hour full load
Width 35 mm Net weight 0.13 kg Environment Immunity to microbreaks 50 ms Electromagnetic compatibility Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-2 Standards EN/IEC 60255-6 Product certifications GL UL GOST C-Tick	Safety reliability data	
Environment Immunity to microbreaks Electromagnetic compatibility Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Immunity for industrial environments conforming to NF EN/IEC 61000-6-2 Standards EN/IEC 60255-6 Product certifications GL UL GOST C-Tick	Contacts material	Cadmium free
Environment Immunity to microbreaks 50 ms Electromagnetic compatibility Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Immunity for industrial environments conforming to NF EN/IEC 61000-6-2 Standards EN/IEC 60255-6 Product certifications GL UL GOST C-Tick	Width	35 mm
Immunity to microbreaks 50 ms	Net weight	0.13 kg
Electromagnetic compatibility Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-2 Immunity for industrial environments conforming to NF EN/IEC 61000-6-2 EN/IEC 60255-6 Product certifications GL UL GOST C-Tick	Environment	
Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Immunity for industrial environments conforming to NF EN/IEC 61000-6-2 Standards EN/IEC 60255-6 Product certifications GL UL GOST C-Tick	Immunity to microbreaks	50 ms
Product certifications GL UL GOST C-Tick	Electromagnetic compatibility	Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3
UL GOST C-Tick	Standards	EN/IEC 60255-6
	Product certifications	UL GOST C-Tick

Ambient air temperature for storage	-4070 °C
Ambient air temperature for operation	-2050 °C
Relative humidity	95 % at 55 °C conforming to IEC 60068-2-30
Vibration resistance	0.35 mm (f= 557.6 Hz) conforming to IEC 60068-2-6 1 gn (f= 57.6150 Hz) conforming to 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 test voltage	2 kV, 1 min AC 50 Hz conforming to IEC 60255-5 2 kV, 1 min AC 50 Hz conforming to IEC 60664-1
Non-dissipating shock wave	4 kV conforming to IEC 60255-5 4 kV conforming to IEC 60664-1 4 kV conforming to IEC 61000-4-5
Packing Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	130.0 g
Package 1 Height	4.705 cm
Package 1 width	7.738 cm
Package 1 Length	9.44 cm
Unit Type of Package 2	S03
Number of Units in Package 2	48
Package 2 Weight	7.58 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Offer Sustainability	
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yés
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
Contractual warranty	
Warranty	18 months

Dimensions Drawings

Current Control Relays



Product data sheet

RM35JA32MW

Connections and Schema

Current Control Relays

Wiring Diagram

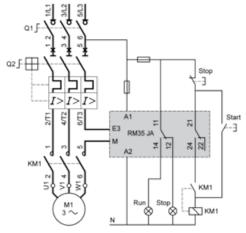




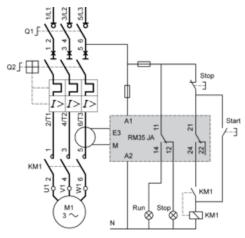
Application Schemes

Example: Detection of Jamming on a Crusher (Overcurrent Function)

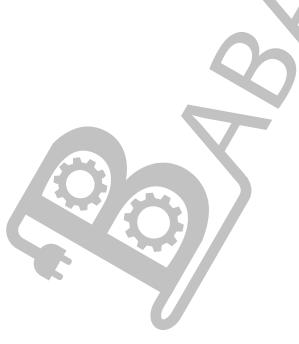
Current measured ≤ 15 A



Current measured > 15 A







Product data sheet

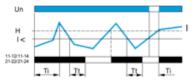
RM35JA32MW

Technical Description

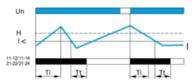
Function Diagrams

Undercurrent Detection

Without memory ("No Memory" mode)

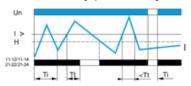


With memory ("Memory" mode)

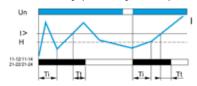


Overcurrent Detection

Without memory ("No Memory" mode)



With memory ("Memory" mode)



Legend

Ti Starting inhibition time delay

Tt Time delay after crossing of threshold

Un Supply voltage

I Monitored current

H Hysteresis

I> Overcurrent threshold

I< Undercurrent threshold

11-12/11-14, 21-22/21-24 Output relay connections

Relay status: black color = energized.

NOTE: In "Memory" mode, the relay opens when crossing of the threshold is detected and then stays in that position. The power supply voltage must be switched off to reset the product.

