Reversing starter, 6.6 A, Sensor input 2, 230/277 V AC, AS-Interface  $^{\circledR}$ , S-7.4 for 31 modules, HAN Q4/2, with manual override switch



Part no. RAM05-W202A31-412RS1 199101

| id Link Reversing starter  |
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| normal internally and externally ventilated 4 pole, th<br>is with 1500 rpm at 50 Hz or 1800 min at 60 Hz |
| nnect<br>evice and via AS-Interface<br>nnect mobile (App)  |
| SET<br>I<br>M12 sockets (max. 150 mA) for quick stop and<br>on   |
| h mechanical brake<br>overload protection  |
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| C-3)   |
| C-3)   |
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| S-7.4 for 31 modules   |
|  |
| etwork (TN-S network)<br>ystems are not permitted.   |
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| Mounting position   | Vertical   |
|---|--|
| Shock resistance  | 15 g, Mechanical, According to IEC/EN 60068-2-27, 11 ms, Half-sinusoidal shock ms, 1000 shocks per shaft   |
| Vibration   | Resistance: 10 - 150 Hz, Oscillation frequency Resistance: 6 Hz, Amplitude 0.15 mm Resistance: 57 Hz, Amplitude transition frequency on acceleration Resistance: According to IEC/EN 60068-2-6 |
| Altitude  | Above 1000 m with 1 % performance reduction per 100 m<br>Max. 2000 m<br>Max. 1000 m  |
| Ambient operating temperature - min                                       | -10 °C   |
| Ambient operating temperature - max                                       | 55 °C  |
| Ambient storage temperature - min   | -40 °C   |
| Ambient storage temperature - max   | 70 °C  |
| Climatic proofing   | < 95 %, no condensation<br>In accordance with IEC/EN 50178   |
| Current limitation  | Adjustable, motor, main circuit 0.3 - 6.6 A, motor, main circuit   |
| Input current   | 6.6 A (at 150 % Overload)  |
| Mains switch-on frequency   | Maximum of one time every 60 seconds   |
| Mains voltage tolerance   | 380 - 480 V (-15 %/+10 %, at 50/60 Hz)   |
| Off-delay   | 20 - 35 ms   |
| On-delay  | 20 - 35 ms   |
| Output frequency  | 50/60 Hz   |
| Overload cycle  | AC-53a<br>63 Hz  |
| Rated frequency - max Rated frequency - min                               | 47 Hz  |
| Rated operational current (Ie)  | 6.6 A  |
| Rated operational current (le) at 150% overload                           | 6.6 A  |
| Rated operational current (le) at AC-3, 380 V, 400 V, 415 V               | 6.6 A  |
| Rated operational power at 380/400 V, 50 Hz - max                         | 3 kW   |
| Rated operational power at 380/400 V, 50 Hz - min                         | 0.09 kW  |
| Rated operational power at AC-3, 220/230 V, 50 Hz                         | 0 kW   |
| Rated operational power at AC-3, 380/400 V, 50 Hz                         | 3 kW   |
| Rated operational voltage   | 400 V AC, 3-phase<br>480 V AC, 3-phase   |
| Supply frequency  | 50/60 Hz, fLN, Main circuit  |
| Assigned motor power at 460/480 V, 60 Hz, 3-phase                         | 3 HP   |
| Braking current   | $\leq$ 0.6 A (max. 6 A for 120 ms), Actuator for external motor brake  |
| Braking voltage   | 230/277 V AC -15 % / +10 %, Actuator for external motor brake  |
| Rated conditional short-circuit current (Iq)                              | 10 kA  |
| Rated conditional short-circuit current (Iq), type 2, 380 V, 400 V, 415 V | 0 A  |
| Short-circuit protection (external output circuits)                       | Type 1 coordination via the power bus' feeder unit, Main circuit   |
| Rated control supply voltage (Us) at AC, 50 Hz - min                      | 0 V  |
| Rated control supply voltage (Us) at AC, 50 Hz - max                      | 0 V  |
| Rated control supply voltage (Us) at AC, 60 Hz - min                      | 0 V  |
| Rated control supply voltage (Us) at AC, 60 Hz - max                      | 0 V  |
| Rated control supply voltage (Us) at DC - min                             | 0 V  |
| Rated control supply voltage (Us) at DC - max                             | 0 V  |
| Rated control voltage (Uc)  | 24 V DC (-15 %/+20 %, external via AS-Interface® plug)<br>230/277 V AC (external brake 50/60 Hz)   |

| Connection   | Connections pluggable in power section   |
|--|--|
| Interfaces   | Specification: S-7.4 (AS-Interface®)  Max. total power consumption from AS-Interface® power supply unit (30 V): 190  mA  Number of slave addresses: 31 (AS-Interface®) |
|  |  |
| Number of auxiliary contacts (normally closed contacts)                          | 0  |
| Number of auxiliary contacts (normally open contacts)                            | 0  |
|  |  |
| Cable length   | 10 m, Radio interference level, maximum motor cable length   |
|  |  |
| 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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.   |
| 10.9.2 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 8.0**

Low-voltage industrial components (EG000017) / Motor starter/Motor starter combination (EC001037)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Load breakout, motor breakout / Motor starter combination (ecl@ss10.0.1-27-37-09-05 [AJZ718013])

| [A02710010])   |    |                   |
|--|----|-------------------|
| Type of motor starter  |    | Reversing starter |
| With short-circuit release                                   |    | Yes               |
| Rated control supply voltage Us at AC 50HZ                   | V  | 0 - 0             |
| Rated control supply voltage Us at AC 60HZ                   | V  | 0 - 0             |
| Rated control supply voltage Us at DC                        | V  | 0 - 0             |
| Voltage type for actuating                                   |    | DC                |
| Rated operation power at AC-3, 230 V, 3-phase                | kW | 0                 |
| Rated operation power at AC-3, 400 V                         | kW | 3                 |
| Rated power, 460 V, 60 Hz, 3-phase                           | kW | 2.238             |
| Rated power, 575 V, 60 Hz, 3-phase                           | kW | 0                 |
| Rated operation current le                                   | А  | 6.6               |
| Rated operation current at AC-3, 400 V                       | А  | 6.6               |
| Overload release current setting                             | А  | 0.3 - 6.6         |
| Rated conditional short-circuit current, type 1, 480 Y/277 V | А  | 10,000            |
| Rated conditional short-circuit current, type 1, 600 Y/347 V | А  | 0                 |
| Rated conditional short-circuit current, type 2, 230 V       | Α  | 0                 |
| Rated conditional short-circuit current, type 2, 400 V       | А  | 0                 |

| Number of auxillary contacts as normally gene contact         0           Ambient temperature, upper operating limit         "C         55           Temperature compensated overload protection         "C         15           Repeat of electrical connection of main circuit         C         15           Type of electrical connection of main circuit         Plug-in connection           Will transformer         Plug-in connection           Number of circuits and positions         C         Plug-in connection           Will transformer         No         No           Number of ministry styles         No         No           Countriation class according to IEC 0887-4-3         No         No           Countriation rights         Ve         No           Supporting protect of PROFIBEUS   |  |    |                    |
|--|--|----|--------------------|
| Ambient temperature, upper operating limit  Temperature compensated overload protection  Relatese class  Type of electrical connection of main circuit  Type of electrical connection for auxiliary- and control current circuit  Rall mounting possible  Nall mounting possib |  |    | 0                  |
| Temperatura compensated overload protection         Yes           Reloase class         CLASS 10 A           Type of electrical connection of main circuit         Plug-in-connection           Yype of electrical connection of main circuit         Plug-in-connection           Rall mounting possible         No           With transformer         No           Number of command pessions         2           Suitable for emergency stap         0           Coordination class according to EC 0997-4-3         0           Number of Indication class according to EC 0997-4-3         0           Number of Indication class according to EC 0997-4-3         0           With fuse         0           External reset possible         9           With fuse         1985           Degree of protector INEMA         12           Supporting protector for TCPIP         0           Degree of protector for TCPIP         No           Supporting protector for FXTREBUS         No           Supporting protector for MTERBUS         No           Supporting protect for Motubus         No           Supporting protect for Motubus         No           Supporting protect for Data Highway         No           Supporting protect for Data Highway         No </td <td>Number of auxiliary contacts as normally closed contact</td> <td></td> <td>0</td>  | Number of auxiliary contacts as normally closed contact                  |    | 0                  |
| Release class         CLASS 10 A           Type of electrical connection for auxiliary- and control current circuit         Plug-in connection           Type of electrical connection for auxiliary- and control current circuit         Ho           With transformer         No           Number of command positions         10           Statishing for energinery stop         No           Conditation class according to EC 8847-4-3         10           Number of indicator lights         10           External reset possible         9           With flue         No           Degree of protection (IP)         12           Upper of protection (IP)         12           Degree of protection (IP)         12           Supporting protector FC FCAP         No           Supporting protector for FCAPP         No           Supporting protector for EXPIFEUS         No           Supporting protector for NTERBUS         No           Supporting protector for EXPIFEUS         No           Supporting protector for Data-Highway         No           Supporting protector for Data-Highway         No           Supporting protector for Data-Highway         No           Supporting protector for PDE FCBA         No           Supporting protector for PDE FCBA   | Ambient temperature, upper operating limit                               | °C | 55                 |
| Type of electrical connection of main circuit         Plug-in connection           Type of electrical connection for auxiliary- and control current circuit         Plug-in connection           Rail mounting possible         No           Number of command positions         2           Suitable for emergency stop         No           Coordination class according to IEE 0897-4-3         No           Number of indicator lights         0           Extranal reast possible         Yes           With full         196           Degree of protection (IPP)         196           Degree of protection (IPP)         196           Supporting protocol for FROFIBUS         No           Supporting protocol for FROFIBUS         No           Supporting protocol for INTERBUS         No           Supporting protocol for INTERBUS         No           Supporting protocol for Modbus         Yes           Supporting protocol for BALL-Highway         No           Supporting protocol for Dest-Highway         No           Supporting protocol for Dest-Highway         No           Supporting protocol for BOHNET IO         No           Supporting protocol for PROFINET GBA         No           Supporting protocol for FROFINET GBA         No           Supporting proto  | Temperature compensated overload protection                              |    | Yes                |
| Type of electrical connection for auxiliary- and control current circuit         Plugin connection           Rall mounting possible         No           With transformer         10           Number of command positions         2           Subtable for emergency stop         No           Coordination class according to IC 60947-43         2           Number of indicator lights         8           External reset possible         9           With that S         10           Degree of protection (IP)         10           Degree of protection (IPA)         12           Supporting protector for PROFIBUS         No           Supporting protector for PROFIBUS         No           Supporting protector for ANA         12           Supporting protector for ENDREUS         No           Supporting protector for Madus         No           Supporting protector for Madus         No           Supporting protector for Madus         No           Supporting protector for SUBLIAN         No           Supporting protector for FROFINET (IA         No           Su   | Release class  |    | CLASS 10 A         |
| Rall mounting possible         No           With standsformer         No           Number of command positions         2           Standshel for mergency stop         No           Coordination class according to IEC 60847-43         Class 1           Number of indicator lights         0           External reser possible         No           With these         No           Degree of protection IIPP         P85           Degree of protection IVEMIA         12           Supporting protocol for TCPIPP         No           Supporting protocol for TCPIP         No           Supporting protocol for PROFIBUS         No           Supporting protocol for RADRISUS         No           Supporting protocol for Modbus         No           Supporting protocol for Modbus         No           Supporting protocol for BORFINET         No           Supporting protocol for BORFINET IO         No           Supporting protocol for BORFINET IO         No           Supporting protocol for PROFINET IO         No           Supporting protocol for PROFINET IO         No           Supporting protocol for Foundation Fieldbus         No           Supporting protocol for Foundation Fieldbus         No           Supporting protocol   | Type of electrical connection of main circuit                            |    | Plug-in connection |
| With transformer         Many         Ro           Number of command positions         2         2           Suitable for emergency stop         No         No           Conditination class according to IEC 6944-43         (2)         Class 1           Number of indicator lights         5         2         4           External reset possible         4         7         8           With fuse         1         16         18           Degree of protection (IPC         1         19         12           Supporting protocol for FCP/IP         8         1         12           Supporting protocol for CAA         8         1         10           Supporting protocol for FORFIBUS         8         1         10           Supporting protocol for Moditus         9         1         10           Supporting protocol for Moditus         9         1         10           Supporting protocol for DeciceNt         9         1         10           Supporting protocol for Subst-Highway         9         1         10           Supporting protocol for Subst-Highway         1         1         10           Supporting protocol for PROFINET IO         1         1         10 <t< td=""><td>Type of electrical connection for auxiliary- and control current circuit</td><td></td><td>Plug-in connection</td></t<>  | Type of electrical connection for auxiliary- and control current circuit |    | Plug-in connection |
| Number of command positions         2           Suitable for emergency stop         6           Coordination class according to IEC 60947-4.3         6           Number of indicator lights         9           External reset possible         76           With fuse         10           Dogree of protection (IP)         165           Degree of protection (NEMA)         16           Supporting protect for PROFIBUS         No           Supporting protect for FCAPIP         No           Supporting protect for NETERBUS         No           Supporting protect for Modbus         10           Supporting protect for Modbus         10           Supporting protect for DavicaNat         10           Supporting protect for PROFINET CB         10           Supporting protect for FROFINET CB         10           Supporting protect for PROF   | Rail mounting possible   |    | No                 |
| Suitable for emergency stop         Image: Coordination class according to IEC 809474-3         Image: Coordination class according to IEC 809   | With transformer   |    | No                 |
| Coordination class according to IEC 68947-4-3         Class 1           Number of indicator lights         9           External raset possible         788           With fuse         198           Degree of protection IIP         1985           Supporting protector for IPPR         12           Supporting protector for PROFIBUS         No           Supporting protect for ACAN         9           Supporting protect for AAN         9           Supporting protect for MREBUS         No           Supporting protect for AAN         9           Supporting protect for Mathes         9           Supporting protect for MADUS         9           Supporting protect for Data-Highway         8           Supporting protect for Data-Highway         9           Supporting protect for Everication         9           Supporting protect for Data-Highway         9           Supporting protector for PROFINET (0         9           Supporting protector for PROFINET (0         9           Supporting protector for PROFINET (0         9           Supporting protector for FROFINET (0         9           Supporting protector for FROFINET (0         9           Supporting protector for FROFINET (0         9           Supporting   | Number of command positions  |    | 2                  |
| Number of indicator lights         Kase           External reset possible         Yes           With fuse         No           Degree of protection (IP)         IPS           Degree of protection (NEMA)         IPS           Supporting protector for TCP/IP         No           Supporting protector for TCP/IP         No           Supporting protector for INTERBUS         No           Supporting protector for INTERBUS         No           Supporting protector for INTERBUS         No           Supporting protector for Medius         No           Supporting protector for Medius         No           Supporting protector for Data-Highway         No           Supporting protector for Deta-Highway         No           Supporting protector for POSICONET         No           Supporting protector for PROFINET IO         No           Supporting protector for PROFINET CBA         No           Supporting protector for Foundation Fieldbus         No           Supporting protector for EtterNetVerly         No           Supporting protector for EtterNetVer  | Suitable for emergency stop  |    | No                 |
| External reset possible         Yes           With fuse         No           Degree of protection (IP)         P65           Degree of protection (IEMA)         Yes           Supporting protocol for TCP/IP         No           Supporting protocol for FROFIBUS         No           Supporting protocol for CAN         No           Supporting protocol for ASI         No           Supporting protocol for Mothus         No           Supporting protocol for Data-Highway         No           Supporting protocol for Data-Highway         No           Supporting protocol for PROFINET IO         No           Supporting protocol for PROFINET IO         No           Supporting protocol for PROFINET IO         No           Supporting protocol for PROFINET EDA         No           Supporting protocol for PROFINET EDA         No           Supporting protocol for PROFINET BUS         No           Supporting protocol for FROFINET BUS         No           Supporting protocol for FROFINET BUS         No           Supporting protocol for FROFINET BUS         No  | Coordination class according to IEC 60947-4-3                            |    | Class 1            |
| With fuse         No           Degree of protection (IP)         1P85           Degree of protection (INMA)         12           Supporting protect for TCP/IP         No           Supporting protect of TCPRIBUS         No           Supporting protect of CAN         No           Supporting protect for INTERBUS         No           Supporting protect for INTERBUS         No           Supporting protect for Modus         No           Supporting protect for Data-Highway         No           Supporting protect for Data-Highway         No           Supporting protect for SUCONET         No           Supporting protect for SUCONET         No           Supporting protect for FROFINET IO         No           Supporting protect for FROFINET ECA         No           Supporting protect for FROFINET ECA         No           Supporting protect for FROFINET WITH IN IN IN INTERPRETATION IN   | Number of indicator lights   |    | 0                  |
| Degree of protection (IP)           P65           Degree of protection (NEMA)           2           Supporting protocol for TCP/IP           No           Supporting protocol for TCP/IP           No           Supporting protocol for PCP/IPSUS           No           Supporting protocol for ENDEUS           No           Supporting protocol for INTERBUS           No           Supporting protocol for Modbus           No           Supporting protocol for Data-Highway           No           Supporting protocol for DeviceNet           No           Supporting protocol for SUCONET           No           Supporting protocol for PROFINET IO           No           Supporting protocol for PROFINET GA           No           Supporting protocol for PROFINET GBA           No           Supporting protocol for PROFINET GBA           No           Supporting protocol for EtherNet/IP           No           Supporting protocol for DeviceNet Safety           No           Supporting protocol for DeviceNet Safety           No           Supporting protocol for PROFisafe           No  | External reset possible  |    | Yes                |
| Degree of protection (NEMA)         12           Supporting protocol for TCP/IP         No           Supporting protocol for PROFIBUS         No           Supporting protocol for CAN         No           Supporting protocol for CAN         No           Supporting protocol for ASI         Yes           Supporting protocol for Modbus         No           Supporting protocol for Desirablishway         No           Supporting protocol for Desirablishway         No           Supporting protocol for SUCONET         No           Supporting protocol for PROFINET IO         No           Supporting protocol for PROFINET IO         No           Supporting protocol for PROFINET CBA         No           Supporting protocol for PROFINET GBA         No           Supporting protocol for Etherlex/IP         No           Supporting protocol for Etherlex/IP         No           Supporting protocol for DeviceNet Safety         No           Supporting protocol for PROFI  | With fuse  |    | No                 |
| Supporting protocol for PROFIBUS         No           Supporting protocol for CAN         No           Supporting protocol for CAN         No           Supporting protocol for ASI         No           Supporting protocol for ASI         Yo           Supporting protocol for Data-Highway         No           Supporting protocol for Data-Highway         No           Supporting protocol for Data-Highway         No           Supporting protocol for DaviceNet         No           Supporting protocol for SUCONET         No           Supporting protocol for PROFINET IO         No           Supporting protocol for PROFINET GBA         No           Supporting protocol for PROFINET GBA         No           Supporting protocol for Foundation Fieldbus         No           Supporting protocol for Foundation Fieldbus         No           Supporting protocol for Foundation Fieldbus         No           Supporting protocol for DeviceNet Safety at Work         No           Supporting protocol for DeviceNet Safety at Work         No           Supporting protocol for PROFISafe         No  | Degree of protection (IP)  |    | IP65               |
| Supporting protocol for PROFIBUS         No           Supporting protocol for CAN         Mo           Supporting protocol for INTERBUS         No           Supporting protocol for ASI         Yes           Supporting protocol for Modbus         No           Supporting protocol for Modbus         No           Supporting protocol for Data-Highway         No           Supporting protocol for Data-Highway         No           Supporting protocol for SUCONET         No           Supporting protocol for PROFINET IO         No           Supporting protocol for PROFINET EBA         No           Supporting protocol for PROFINET CBA         No           Supporting protocol for SERCOS         No           Supporting protocol for FROFINET CBA         No           Supporting protocol for EtherNet/IP         No           Supporting protocol for EtherNet/IP         No           Supporting protocol for DeviceNet Safety at Work         No           Supporting protocol for DeviceNet Safety at Work         No           Supporting protocol for FROFISE         No           Supporting protocol for FROFISE         No           Supporting protocol for Safety BUS A         No           Supporting protocol for FROFISE         No           Supporting protocol  | Degree of protection (NEMA)  |    | 12                 |
| Supporting protocol for CAN         No           Supporting protocol for INTERBUS         No           Supporting protocol for ASI         Yes           Supporting protocol for Modbus         No           Supporting protocol for Data-Highway         No           Supporting protocol for SUCONET         No           Supporting protocol for SUCONET         No           Supporting protocol for PROFINET IO         No           Supporting protocol for PROFINET EDA         No           Supporting protocol for SERCOS         No           Supporting protocol for SERCOS         No           Supporting protocol for FAN-Hierack Salety at Work         No           Supporting protocol for FAN-Herace Salety at Work         No           Supporting protocol for PROFISE         No           Supporting protocol for PROFISE         No           Supporting protocol for Protocol for Pak-Herace Salety at Work         No           Supporting protocol for PROFISE         No           Supporting protocol for SaletyBUS P         No           Supporting  | Supporting protocol for TCP/IP   |    | No                 |
| Supporting protocol for INTERBUS Supporting protocol for ASI Supporting protocol for Modbus Supporting protocol for Data-Highway Supporting protocol for Data-Highway Supporting protocol for DeviceNet Supporting protocol for SUCONET Supporting protocol for PROFINET IO Supporting protocol for PROFINET IO Supporting protocol for PROFINET IO Supporting protocol for PROFINET CBA Supporting protocol for PROFINET CBA Supporting protocol for SERCOS Supporting protocol  | Supporting protocol for PROFIBUS   |    | No                 |
| Supporting protocol for ASI         Yes           Supporting protocol for Modbus         No           Supporting protocol for Deta-Highway         No           Supporting protocol for DeviceNet         No           Supporting protocol for SUCONET         No           Supporting protocol for LON         No           Supporting protocol for PROFINET IO         No           Supporting protocol for PROFINET CBA         No           Supporting protocol for Fundation Fieldbus         No           Supporting protocol for EtherNet/IP         No           Supporting protocol for Pundation Fieldbus         No           Supporting protocol for DeviceNet Safety at Work         No           Supporting protocol for PROFIsafe         No           Supporting protocol for INTERBUS-Safety         No           Supporting protocol for SafetyBUS p         No           Supporting protocol for SafetyBUS p         No           Supporting protocol for SafetyBUS p         No           Supporting protocol for other bus systems         No           Supporting protocol for other bus systems   | Supporting protocol for CAN  |    | No                 |
| Supporting protocol for Data-Highway Supporting protocol for Data-Highway Supporting protocol for DeviceNet Supporting protocol for SUCONET Supporting protocol for SUCONET Supporting protocol for SUCONET Supporting protocol for PROFINET IO Supporting protocol for PROFINET CBA Supporting protocol for PROFINET CBA Supporting protocol for SERCOS Supporting protocol for PROFINET Safety at Work Supporting protocol for DeviceNet Safety at Work Supporting protocol for INTERBUS-Safety Supporting protocol for PROFISafe Supporting protocol for PROFISafe Supporting protocol for SafetyBUS P Supporting protocol for  | Supporting protocol for INTERBUS   |    | No                 |
| Supporting protocol for Data-Highway  Supporting protocol for DeviceNet  Supporting protocol for SUCONET  Supporting protocol for SUCONET  Supporting protocol for LON  Supporting protocol for PROFINET IO  Supporting protocol for PROFINET CBA  Supporting protocol for SERCOS  Supporting protocol for Fundation Fieldbus  Supporting protocol for Fundation Fieldbus  Supporting protocol for Fundation Fieldbus  Supporting protocol for DeviceNet Safety  Supporting protocol for DeviceNet Safety  Supporting protocol for DeviceNet Safety  Supporting protocol for PROFISefe  Supporting protocol for SafetyBUS P  Supporting protocol for Other bus systems  Width  Height  Height   | Supporting protocol for ASI  |    | Yes                |
| Supporting protocol for DeviceNet  Supporting protocol for SUCONET  Supporting protocol for LON  Supporting protocol for PROFINET IO  Supporting protocol for PROFINET CBA  Supporting protocol for FROFINET CBA  Supporting protocol for Foundation Fieldbus  Supporting protocol for EtherNet/IP  Supporting protocol for AS-Interface Safety at Work  Supporting protocol for DeviceNet Safety  Supporting protocol for INTERBUS-Safety  Supporting protocol for SafetyBUS P  Supporting protocol for Other bus systems  Width  Height  Mn  Supporting Protocol for Other bus Systems  Mn  Supporting Protocol for Other bus Syst | Supporting protocol for Modbus   |    | No                 |
| Supporting protocol for SUCONET  Supporting protocol for LON  Supporting protocol for PROFINET IO  Supporting protocol for PROFINET CBA  Supporting protocol for SERCOS  Supporting protocol for Foundation Fieldbus  Supporting protocol for EtherNet/IP  Supporting protocol for AS-Interface Safety at Work  Supporting protocol for DeviceNet Safety  Supporting protocol for INTERBUS-Safety  Supporting protocol for SafetyBUS p  Supporting protocol for SafetyBUS p  Supporting protocol for Other bus systems  Width  Height  No  No  No  No  No  No  No  No  No  N   | Supporting protocol for Data-Highway                                     |    | No                 |
| Supporting protocol for PROFINET IO Supporting protocol for PROFINET CBA Supporting protocol for PROFINET CBA Supporting protocol for SERCOS Supporting protocol for Foundation Fieldbus Supporting protocol for Foundation Fieldbus Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety Supporting protocol for DeviceNet Safety Supporting protocol for INTERBUS-Safety Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for Oder bus systems Width Height   | Supporting protocol for DeviceNet  |    | No                 |
| Supporting protocol for PROFINET CBA Supporting protocol for PROFINET CBA Supporting protocol for SERCOS Supporting protocol for Foundation Fieldbus Supporting protocol for Foundation Fieldbus Supporting protocol for EtherNet/IP Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety at Work Supporting protocol for DeviceNet Safety Supporting protocol for INTERBUS-Safety Supporting protocol for PROFIsafe Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for other bus systems Width Height  No  No  No  No  No  No  No  No  No  N   | Supporting protocol for SUCONET  |    | No                 |
| Supporting protocol for PROFINET CBA  Supporting protocol for SERCOS  Supporting protocol for Foundation Fieldbus  Supporting protocol for EtherNet/IP  Supporting protocol for EtherNet/IP  Supporting protocol for DeviceNet Safety at Work  Supporting protocol for DeviceNet Safety at Work  Supporting protocol for INTERBUS-Safety  Supporting protocol for PROFIsafe  Supporting protocol for SafetyBUS p  Supporting protocol for SafetyBUS p  Supporting protocol for Other bus systems  Width  Height  No  No  No  No  No  No  No  No  No  N   | Supporting protocol for LON  |    | No                 |
| Supporting protocol for SERCOS Supporting protocol for Foundation Fieldbus Supporting protocol for EtherNet/IP Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety Supporting protocol for DeviceNet Safety Supporting protocol for INTERBUS-Safety Supporting protocol for PROFIsafe Supporting protocol for SafetyBUS p Supporting protocol for other bus systems Width Height  No  No  No  No  No  No  No  No  No  Supporting protocol for Other bus systems No  | Supporting protocol for PROFINET IO                                      |    | No                 |
| Supporting protocol for Foundation Fieldbus Supporting protocol for EtherNet/IP Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety Supporting protocol for DeviceNet Safety Supporting protocol for INTERBUS-Safety Supporting protocol for PROFIsafe Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for other bus systems Width Midth  | Supporting protocol for PROFINET CBA                                     |    | No                 |
| Supporting protocol for EtherNet/IP Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety Supporting protocol for DeviceNet Safety Supporting protocol for INTERBUS-Safety No Supporting protocol for PROFIsafe Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for other bus systems No Width mm 220 Height  | Supporting protocol for SERCOS   |    | No                 |
| Supporting protocol for AS-Interface Safety at Work  Supporting protocol for DeviceNet Safety  Supporting protocol for INTERBUS-Safety  No Supporting protocol for PROFIsafe  Supporting protocol for SafetyBUS p  Supporting protocol for other bus systems  Width  mm  200  Height   | Supporting protocol for Foundation Fieldbus                              |    | No                 |
| Supporting protocol for DeviceNet Safety Supporting protocol for INTERBUS-Safety No Supporting protocol for PROFIsafe No Supporting protocol for SafetyBUS p No Supporting protocol for other bus systems No Width mm 220 Height No  | Supporting protocol for EtherNet/IP                                      |    | No                 |
| Supporting protocol for INTERBUS-Safety  Supporting protocol for PROFIsafe  Supporting protocol for SafetyBUS p  Supporting protocol for SafetyBUS p  No  Supporting protocol for other bus systems  No  Width  mm  220  Height  mm  270   | Supporting protocol for AS-Interface Safety at Work                      |    | No                 |
| Supporting protocol for PROFIsafe Supporting protocol for SafetyBUS p No Supporting protocol for other bus systems No Width mm 220 Height The systems mm 270   | Supporting protocol for DeviceNet Safety                                 |    | No                 |
| Supporting protocol for SafetyBUS p Supporting protocol for other bus systems No Width mm 220 Height 270   | Supporting protocol for INTERBUS-Safety                                  |    | No                 |
| Supporting protocol for other bus systems  Width  mm  220  Height  mm  270   | Supporting protocol for PROFIsafe  |    | No                 |
| Width mm 220 Height 270  | Supporting protocol for SafetyBUS p                                      |    | No                 |
| Height mm 270  | Supporting protocol for other bus systems                                |    | No                 |
|  | Width  | mm | 220                |
| Depth mm 120   | Height   | mm | 270                |
|  | Depth  | mm | 120                |