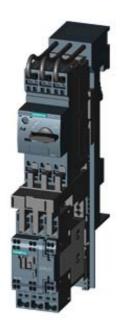
## SIEMENS

## Product data sheet

## 3RA2120-4EH27-0AP0



LOAD FEEDER FUSELESS DIRECT START, AC 400V, SZ. S0, 27...32A, AC 230V SPRING-LOADED CONNECTION FOR BUSBAR SYSTEMS 60MM TYPE OF COORD. 2,IQ = 150KA (ALSO ACHIEVES TYPE OF COORD.1) 1NO+1NC (CONTACTOR)

| General technical data:  |    |                             |  |
|--|----|-----------------------------|--|
| Product brand name   |    | SIRIUS                      |  |
| product designation  |    | non-fused load feeders 3RA2 |  |
| Design of the product  |    | direct starter              |  |
| Size of the load feeder  |    | S0                          |  |
| Protection class IP / on the front   |    | IP20                        |  |
| Degree of pollution  |    | 3                           |  |
| Insulation voltage / rated value   | V  | 690                         |  |
| Installation altitude / at a height over sea level / maximum                                     | m  | 2,000                       |  |
| Ambient temperature  |    |                             |  |
| during transport   | °C | -55 80                      |  |
| during storage   | °C | -55 80                      |  |
| during operating   | °C | -20 60                      |  |
| Impulse voltage resistance / rated value   | kV | 6                           |  |
| Active power loss / per conductor / typical  | W  | 4.3                         |  |
| Item designation   |    |                             |  |
| <ul> <li>according to DIN 40719 extendable after IEC 204-2 / according<br/>to IEC 750</li> </ul> |    | Q                           |  |
| according to DIN EN 61346-2  |    | Q                           |  |
| Type of assignement  |    | 2                           |  |

| • + yielaiI10,00,000Marufacturer article numberII• d the circuit-breakers included in the scope of supplyII• d the included in the scope of supplyIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII  | Mechanical operating cycles as operating time / of the contactor            |     |               |
|---|---|-----|---------------|
| • of the circuit/breakers included in the scope of supplyImage: Stratus 27-2AP00• of the circuit/breakers included in the scope of supply9K12027-2AP00• of the bubbar adopter included in the scope of supply9K12027-2AP00• of the bubbar adopter included in the scope of supply9K12027-2AP00• Design of the switching contact9K12027-2AP00• Design of the switching contact9K12027-2AP00• Adjustable response current9K12027-2AP00• of the current-dependent overfoad releaseA• of the current-dependent overfoad releaseA• of the current-dependent overfoad releaseA• of the switching contactNe• AS interface protocolNe• PROFIBUS DP protocolNe• PROFIBUS DP protocolNe• PROFIBUS DP protocolNe• Reform in current circuit1• All circuit• Start of the adupter in current circuit3• And to contacts / for main contacts3• Operating current•• at AC-2/ rat 400 V/ rated valueA• at AC-2/ rated valueA   | • typical   |     | 10,000,000    |
| <ul> <li>- of the contactor included in the scope of supply</li> <li>- of the link module included in the scope of supply</li> <li>- of the bubbar adapter included in the scope of supply</li> <li>- of the bubbar adapter included in the scope of supply</li> <li>- of the bubbar adapter included in the scope of supply</li> <li>- of the bubbar adapter included in the scope of supply</li> <li>- of the bubbar adapter included in the scope of supply</li> <li>- of the bubbar adapter included in the scope of supply</li> <li>- of the current-dependent overload release</li> <li>- of the current dependent overload release</li> <li>- of th</li></ul>  | Manufacturer article number   |     |               |
| • of the link module included in the scope of supply3RA2921-2AA00• of the bushar adapter included in the scope of supplyBUS12251-SNT11Design of the switching contactrechanicalType of the motor protectionAImmedialAdjustable response currentA2732• of the current-dependent overload releaseA2732Product function bus-communicationNoProtocol / will be supportedNo• AS interface protocolNo• PROFIBUS DP protocolNo• PROFIBUS DP protocolNo• PROFIBUS DP protocolNo• PROFIBUS OF protocolNo• PROFIBUS DP protocolNo• Protocol / will be supportedNo• PROFIBUS OF protocolNo• PROFIBUS OF protocolNo• Protocol / will be supportedNo• PROFIBUS OF protocolNo• Protocol / will be supportedNo• PROFIBUS OF protocolNo• Protocol / will be supportedNo• Supported / will be supportedNo• Support / will be suppor  | <ul> <li>of the circuit-breakers included in the scope of supply</li> </ul> |     | 3RV2021-4EA20 |
| of the busbar adapter included in the scope of supplyBUS1261-SNT11Design of the switching contactmechanicalType of the motor protectionIbimetalAdjustable response currentIIof the current-dependent overload releaseA2732CommunicationIProduct function / bus-communicationINoProduct function / bus-communicationNoProduct function / bus-communicationProduct function / bus-communicationNoNoProduct function / bus-communicationProduct function module for communicationNoNumber of poles / for main current circuitNumber of NC contacts / for main current circuitNumber of NC contacts / for main current circuitINumber of NC contacts / for main contactsIOperating vortage / at AC-3 / rated value / maximumVeit AC-1 / at 400 V / rated valueAi at AC-2 / at 400 V / rated valueAi at AC-2 / at 400 V / rated valueAi at AC-2 / at 400 V / rated valueWi at AC-2 / at 400 V / rated valueWi at AC-2 / at 400 V / rated valueWi at AC-2 / at 400 V / rated valueWi at AC-2 / at 400 V / rated valueWi at AC-2 / at 400 V / rated valueWi at AC-2 / at 400 V / rated valueWi at AC-2 / at 400 V / rated valueW<  | <ul> <li>of the contactor included in the scope of supply</li> </ul>        |     | 3RT2027-2AP00 |
| Design of the switching contactmechanicalType of the motor protectionbimetalAdjustable response currentA27 32communication:NoProduct function / bus-communicationNoProduct function / bus-communicationNoProduct function / bus-communicationNoProtocol / will be supportedNo- AS interface protocolNoPROFIBUS DP protocolNoProduct stression / function module for communicationNoProduct stression / function module for communicationNoMain circuit:NoNumber of NC contacts / for main contacts0Number of NC contacts / for main contacts3Operating currentV• at AC-1 / at 400 V / rated valueA• at AC-2 / at 400 V / rated valueA• at AC-2 / at 400 V / rated valueA• at AC-2 / at 400 V / rated valueW• at AC-2 / at 400 V / rated valueW• at AC-2 / at 400 V / rated valueW• at AC-2 / at 400 V / rated valueW• at AC-2 / at 400 V / rated valueW• at AC-2 / at 400 V / rated valueW• at AC-2 / at 400 V / rated valueW• at AC-2 / at 400 V / rated valueW• at AC-2 / at 400 V / rated valueW• at AC-2 / at 400 V / rated valueW• at AC-2 / at 400 V / rated valueW• at AC-2 / at 400 V / rated valueW• at AC-2 / at 400 V / rated valueW• at AC-2 / at 400 V / rated valueW<   | <ul> <li>of the link module included in the scope of supply</li> </ul>      |     | 3RA2921-2AA00 |
| Type of the motor protectionImage: addition of the current dependent overload releaseImage: addition of the current dependent overload releaseImage: addition of the current dependent overload releaseProduct function / bus-communicationA27 32Product function / bus-communicationNoProtocol / will be supportedNo• AS interface protocolNo• PROFIBUS DP protocolNo• PROFIBUS DP protocolNo• PROFIBUS DP protocolNo• Product extension / function module for communicationNoMain circuit:3Number of poles / for main current circuit3Number of NC contacts / for main contacts0Operating voltage / at AC-3 / rated value / maximumV690690Operating current   | <ul> <li>of the busbar adapter included in the scope of supply</li> </ul>   |     | 8US1251-5NT11 |
| Adjustable response current     A     27 32       Communication:     No       Product function / bus-communication     No       Protocol / will be supported     No       • AS interface protocol     No       • PROFIBUS DP protocol     No       • PROFIDUE T protocol     No       • PROFIDUE T protocol     No       • Product extension / function module for communication     No       Main circuit:     No       Number of poles / for main current circuit     3       Number of NC contacts / for main contacts     0       Number of NC contacts / for main contacts     3       Operating voltage / at AC-3 / rated value / maximum     V       • at AC-1 / at 400 V / rated value     A       • at AC-2 / at 400 V / rated value     A       • at AC-2 / at 400 V / rated value     A       • at AC-2 / at 400 V / rated value     A       • at AC-2 / at 400 V / rated value     A       • at AC-2 / at 400 V / rated value     A       • at AC-2 / at 400 V / rated value     A       • at AC-2 / at 400 V / rated value     A       • at AC-2 / at 400 V / rated value     W       • at AC-2 / at 400 V / rated value     M       • at AC-2 / at 400 V / rated value     M       • at AC-2 / at 400 V / rated value     M       • at AC-2   | Design of the switching contact   |     | mechanical    |
| A       27 32         Communication       No         Product function / bus-communication       No         Protocol / will be supported       No         - AS interface protocol       No         - PROFINET protocol       No         - PROFINET protocol       No         Product extension / function module for communication       No         Mumber of poles / for main current circuit       No         Number of NC contacts / for main contacts       0         Number of NC contacts / for main contacts       3         Operating voltage / at AC-3 / rated value / maximum       V       690         Operating current       4       32         - at AC-1 / at 400 V / rated value       A       32         - at AC-1 / at 400 V / rated value       A       32         - at AC-1 / at 400 V / rated value       A       32         - at AC-1 / at 400 V / rated value       A       32         - at AC-1 / at 400 V / rated value       A       32         - at AC-1 / at 400 V / rated value       A       32         - at AC-1 / at 400 V / rated value       A       32         - at AC-1 / at 400 V / rated value       A       32         - at AC-1 / at 400 V / rated value       A       32<  | Type of the motor protection  | -   | bimetal       |
| Communication:       No         Protocol / will be supported       No         • AS interface protocol       No         • PROFIBUS DP protocol       No         • PROFINET protocol       No         • PROFINET protocol       No         • PROFINET protocol       No         • Product extension / function module for communication       No         Main circuit:       No         Number of No contacts / for main contacts       0         Number of No contacts / for main contacts       3         Operating current       -         • at AC-1 / at 400 V / rated value       A       32         • at AC-2 / at 400 V / rated value       A       29         • at AC-2 / at 400 V / rated value       A       29         • at AC-2 / at 400 V / rated value       A       29         • at AC-2 / at 400 V / rated value       A       29         • at AC-2 / at 400 V / rated value       A       29         • at AC-2 / at 400 V / rated value       W       15,000         • at AC-2 / at 400 V / rated value       W       15,000         • at AC-2 / at 400 V / rated value       W       15,000         • at AC-2 / at 400 V / rated value       W       15,000         • at 600 V / ra   | Adjustable response current   |     |               |
| Product function / bus-communication       No         Protocol / will be supported       No         • AS interface protocol       No         • PROFIBUS DP protocol       No         • PROFINET protocol       No         • PROFINET protocol       No         Product extension / function module for communication       No         Main circuit:       No         Number of poles / for main current circuit       3         Number of NC contacts / for main contacts       0         Operating current       4         • at AC-1 / rated value / maximum       V       690         Operating current       4       29         • at AC-2 / at 400 V / rated value       A       29         • at AC-2 / at 400 V / rated value       A       29         • at AC-3 / at 400 V / rated value       A       29         • at AC-2 / at 400 V / rated value       A       29         • at AC-3 / rated value       M       15,000         • at AC-3 / rated value       W       15,000         • at 400 V / rated value       W       15,000         • at 400 V / rated value       W       15,000         • at 400 V / rated value       W       15,000         • at 400 V / rated value <td>• of the current-dependent overload release</td> <td>А</td> <td>27 32</td>  | • of the current-dependent overload release                                 | А   | 27 32         |
| Protocol / will be supported       No         ·AS interface protocol       No         ·PROFIBUS DP protocol       No         ·PROFINET protocol       No         Product extension / function module for communication       No         Main circuit:       No         Number of poles / for main current circuit       3         Number of NC contacts / for main contacts       0         Operating current       3         • at AC-1 / at 400 V / rated value / maximum       V         • at AC-1 / at 400 V / rated value       A         • at AC-2 / at 400 V / rated value       A         • at AC-2 / at 400 V / rated value       A         • at AC-2 / at 400 V / rated value       A         • at AC-2 / at 400 V / rated value       A         • at AC-2 / at 400 V / rated value       A         • at AC-2 / at 400 V / rated value       A         • at AC-2 / at 400 V / rated value       A         • at AC-2 / at 400 V / rated value       A         • at AC-2 / at 400 V / rated value       A         • at AC-2 / at 400 V / rated value       A         • at AC-2 / at 400 V / rated value       A         • at AC-3 / at 400 V / rated value       W         • at 400 V / rated value       W  | Communication:  |     |               |
| AS interface protocolNo• PROFIBUS DP protocolNo• PROFINET protocolNo• PROFINET protocolNo• PROFINET protocolNo• Product extension / function module for communicationNoMumber of poles / for main current circuit3• Mumber of NC contacts / for main contacts0• Number of NO contacts / for main contacts3• Operating voltage / at AC-3 / rated value / maximumV• ot AC-1 / at 400 V/ rated value / maximumV• at AC-1 / at 400 V/ rated valueA• at AC-2 / at 400 V/ rated valueA• at AC-3 / at 400 V/ rated valueA• at AC-3 / at 400 V/ rated valueA• at AC-3 / at 400 V/ rated valueA• at AC-4 / at 400 V/ rated valueA• at AC-3 / at 400 V/ rated valueA• at AC-3 / at 400 V/ rated valueA• at AC-4 / at 400 V/ rated valueW• at AC-4 / at 400 V/ rated valueW• at 400 V/ rated value<  | Product function / bus-communication  |     | No            |
| PROFIBUS DP protocolNoPROFINET protocolNoProduct extension / function module for communicationNoMumber of poles / for main current circuit3Number of poles / for main contacts0Number of NC contacts / for main contacts0Number of NO contacts / for main contacts0Operating voltage / at AC-3 / rated value / maximumVOperating currentI•at AC-1 / at 400 V / rated value / maximumA203•at AC-2 / at 400 V / rated valueA2129•at AC-3 / at 400 V / rated valueA2929•at AC-3 / at 400 V / rated valueA2030•at AC-2 / at 400 V / rated valueA2030•at AC-3 / at 400 V / rated valueA2190•at AC-2 / at 400 V / rated valueA2290•at AC-2 / at 400 V / rated valueA2390•at AC-2 / at 400 V / rated valueW•at 400 V / rated valueW <td>Protocol / will be supported</td> <td></td> <td></td>  | Protocol / will be supported  |     |               |
| PROFINET protocolNoProduct extension / function module for communicationNoMumber of poles / for main current circuitImage: Communication of the communication of  | AS interface protocol   |     | No            |
| Product extension / function module for communicationNoMain circuit:Number of poles / for main current circuit3Number of NC contacts / for main contacts0Number of NC contacts / for main contacts0Operating voltage / at AC-3 / rated value / maximumV690Operating currentImage: formation contacts32· at AC-1 / at 400 V / rated valueA32· at AC-2 / at 400 V / rated valueA29· at AC-3 / at 400 V / rated valueA29· at AC-2 / at 400 V / rated valueA29· at AC-2 / at 400 V / rated valueA29· at AC-2 / at 400 V / rated valueA29· at AC-2 / at 400 V / rated valueA29· at AC-2 / at 400 V / rated valueA29· at AC-2 / at 400 V / rated valueW15,000· at AC-3 / at 400 V / rated valueW15,000· at AC-3 / at 400 V / rated valueW15,000· at AC-4 / at 400 V / rated valueW15,000· at AC-4 / at 400 V / rated valueW15,000· at 660 V / rated valueM15,000· at 660 V / rated value   | PROFIBUS DP protocol  |     | No            |
| Main circuit:Number of poles / for main current circuitI3Number of NC contacts / for main contacts0Number of NC contacts / for main contacts0Operating voltage / at AC-3 / rated value / maximumV690Operating currentI• at AC-1 / at 400 V / rated valueA32• at AC-2 / at 400 V / rated valueA29• at AC-3 / at 400 V / rated valueA29• at AC-3 / at 400 V / rated valueA29• at AC-3 / at 400 V / rated valueA29• at AC-3 / at 400 V / rated valueW15,000• at AC-3 / at 400 V / rated valueW15,000• at AC-3 / at 400 V / rated valueW15,000• at AC-3 / at 400 V / rated valueW15,000• at AC-3 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW15,000• at AC-3 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW15,000  | PROFINET protocol   |     | No            |
| Number of poles / for main current circuitImage: Second controls / for main contactsImage: Second contacts / for main contactsNumber of NO contacts / for main contactsImage: Second contacts / for main contactsImage: Second contacts / for main contactsNumber of NO contacts / for main contactsImage: Second contacts / for main contactsImage: Second contacts / for main contactsOperating voltage / at AC-3 / rated value / maximumImage: Second contacts / for main contactsImage: Second contacts / for main contactsOperating currentImage: Second contact / for main contact value / maximumImage: Second contact / for main contact valueImage: Second contact value / for main contact valueImage: second contact value / maximumImage: Second contact value / for main contact valueImage: Second contact valueImage: second contact value / for main contact valueImage: Second contact valueImage: Second contact value / for main contact valueImage: second contact value / for value valueImage: Second contact value valueImage: Second contact value value valueImage: second contact value / for value valueImage: Second contact value valueImage: Second contact value valueImage: second contact value / for value valueImage: Second contact value valueImage: Second contact value valueImage: second contact value /  | Product extension / function module for communication                       |     | No            |
| Number of NC contacts / for main contactsImage: operating contacts / for main contactsImage: operating contacts / for main contactsNumber of NO contacts / for main contactsImage: operating contacts / for main contactsImage: operating contacts / for main contactsOperating voltage / at AC-3 / rated value / maximumV690Operating currentImage: operating contact value / maximumV• at AC-1 / at 400 V / rated valueA32• at AC-2 / at 400 V / rated valueA29• at AC-3 / at 400 V / rated valueA29• at AC-4 / at 400 V / rated valueImage: operating contact valueImage: operating contact value• at AC-2 / at 400 V / rated valueImage: operating contact valueImage: operating contact value• at AC-2 / at 400 V / rated valueImage: operating contact valueImage: operating contact value• at AC-3 / at 400 V / rated valueImage: operating contact valueImage: operating contact value• at AC-3 / at 400 V / rated valueImage: operating contact valueImage: operating contact value• at AC-4 / at 400 V / rated valueImage: operating contact valueImage: operating contact value• at AC-4 / at 400 V / rated valueImage: operating contact valueImage: operating contact value• at AC-4 / at 400 V / rated valueImage: operating contact valueImage: operating contact value• at AC-4 / at 400 V / rated valueImage: operating contact valueImage: operating contact value• at AC-4 / at 400 V / rated valueImage: operating contact valueImage: operating contact value  | Main circuit:   |     |               |
| Number of NO contacts / for main contacts3Operating voltage / at AC-3 / rated value / maximumV690Operating current• at AC-1 / at 400 V / rated valueAA32• at AC-2 / at 400 V / rated valueAA29• at AC-3 / at 400 V / rated valueAA29• at AC-4 / at 400 V / rated valueAA29• at AC-2 / at 400 V / rated valueAA29• at AC-2 / at 400 V / rated valueAA29• at AC-2 / at 400 V / rated valueW15,000• at AC-2 / at 400 V / rated valueW15,000• at AC-3W15,000• at AC-3 / at 400 V / rated valueW15,000• at AC-3 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW15,000• at AC-3 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueM16,000• at AC-4  | Number of poles / for main current circuit                                  |     | 3             |
| Operating voltage / at AC-3 / rated value / maximumV690Operating current• at AC-1 / at 400 V / rated valueA32• at AC-2 / at 400 V / rated valueA29• at AC-3 / at 400 V / rated valueA29• at AC-4 / at 400 V / rated valueA29• at AC-2 / at 400 V / rated valueA29• at AC-4 / at 400 V / rated valueA29• at AC-2 / at 400 V / rated valueA15,000• at AC-2 / at 400 V / rated valueW15,000• at AC-3W15,000• at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW10,000• at AC-4 / at 400 V / rated valueII• at AC-4 / at 400 V / rate   | Number of NC contacts / for main contacts                                   |     | 0             |
| Operating currentImage: constraint of the second secon | Number of NO contacts / for main contacts                                   | -   | 3             |
| • at AC-1/at 400 V/rated valueA32• at AC-2/at 400 V/rated valueA29• at AC-3/at 400 V/rated valueA29• at AC-4/at 400 V/rated valueA29• at AC-4/at 400 V/rated valueA29• at AC-2/at 400 V/rated valueM15,000• at AC-2/at 400 V/rated valueW15,000• at AC-3W15,000• at 400 V/rated valueW18,500• at 400 V/rated valueW30,000• at 690 V/rated valueW30,000• at AC-4/at 400 V/rated valueW15,000• at AC-4/at 400 V/rated valueW10,000• at AC-4/at 400 V/rated valueW10,000   | Operating voltage / at AC-3 / rated value / maximum                         | V   | 690           |
| • at AC-2 / at 400 V / rated valueA29• at AC-3 / at 400 V / rated valueA29• at AC-4 / at 400 V / rated valueA29• at AC-2 / at 400 V / rated valueA29• at AC-2 / at 400 V / rated valueW3000• at AC-3V15,000• at 400 V / rated valueW15,000• at 400 V / rated valueW15,000• at 400 V / rated valueW15,000• at 690 V / rated valueW30,000• at AC-4 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW10,000• at AC-4 / at 400 V / rated valueM10,000   | Operating current   |     |               |
| • at AC-3 / at 400 V / rated valueA29• at AC-4 / at 400 V / rated valueA29Service powerA30• at AC-2 / at 400 V / rated valueW15,000• at AC-3V15,000• at 400 V / rated valueW15,000• at 400 V / rated valueW15,000• at 690 V / rated valueW15,000• at AC-4 / at 400 V / rated valueW10,000Off-load operating frequency1/h10,000   | • at AC-1 / at 400 V / rated value  | А   | 32            |
| • at AC-4 / at 400 V / rated valueImage: A constraint of the system of the  | • at AC-2 / at 400 V / rated value  | А   | 29            |
| Service powerNo• at AC-2 / at 400 V / rated valueW• at AC-3W• at 400 V / rated valueW• at 400 V / rated valueW• at 500 V / rated valueW• at 690 V / rate   | • at AC-3 / at 400 V / rated value  | А   | 29            |
| • at AC-2 / at 400 V / rated value       W       15,000         • at AC-3       W       15,000         • at 400 V / rated value       W       15,000         • at 500 V / rated value       W       15,000         • at 690 V / rated value       W       18,500         • at 690 V / rated value       W       30,000         • at AC-4 / at 400 V / rated value       W       15,000         • at AC-4 / at 400 V / rated value       W       10,000         Off-load operating frequency       1/h       10,000  | • at AC-4 / at 400 V / rated value  | А   | 29            |
| • at AC-3       I         • at 400 V / rated value       IV         • at 500 V / rated value       IV         • at 690 V / rated value       IV         • at 690 V / rated value       IV         • at AC-4 / at 400 V / rated value       IV         • at AC-4 / at 400 V / rated value       IV         • at AC-4 / at 400 V / rated value       IV         • at AC-4 / at 400 V / rated value       IV         • at AC-4 / rated value       IV         • at A   | Service power   |     |               |
| • at 400 V / rated value       W       15,000         • at 500 V / rated value       W       18,500         • at 690 V / rated value       W       30,000         • at AC-4 / at 400 V / rated value       W       15,000         Off-load operating frequency       1/h       10,000         Frequency of operation       I       I  | • at AC-2 / at 400 V / rated value  | W   | 15,000        |
| • at 500 V / rated value       W       18,500         • at 690 V / rated value       W       30,000         • at AC-4 / at 400 V / rated value       W       15,000         Off-load operating frequency       1/h       10,000         Frequency of operation       I       I  | • at AC-3   |     |               |
| • at 690 V / rated valueW30,000• at AC-4 / at 400 V / rated valueW15,000Off-load operating frequency1/h10,000Frequency of operationCC   | • at 400 V / rated value  | W   | 15,000        |
| • at AC-4 / at 400 V / rated valueW15,000Off-load operating frequency1/h10,000Frequency of operationKK  | • at 500 V / rated value  | W   | 18,500        |
| Off-load operating frequency     1/h     10,000       Frequency of operation     Image: Constraint of the second secon  | • at 690 V / rated value  | W   | 30,000        |
| Frequency of operation  | • at AC-4 / at 400 V / rated value  | W   | 15,000        |
|   | Off-load operating frequency  | 1/h | 10,000        |
| • at AC-1 / according to IEC 60947-6-2 / maximum 1/h 1,000  | Frequency of operation  |     |               |
|   | • at AC-1 / according to IEC 60947-6-2 / maximum                            | 1/h | 1,000         |

| • at AC-2 / according to IEC 60947-6-2 / maximum            | 1/h | 1,000                                  |  |
|---|-----|--|--|
| • at AC-3 / according to IEC 60947-6-2 / maximum            | 1/h | 1,000                                  |  |
| • at AC-4 / according to IEC 60947-6-2 / maximum            | 1/h | 300                                    |  |
| Control circuit:  |     |  |  |
| Type of voltage / of the controlled supply voltage          |     | AC                                     |  |
| Control supply voltage frequency                            |     |  |  |
| • 1 / rated value   | Hz  | 50                                     |  |
| Control supply voltage / 1                                  |     |  |  |
| • at 50 Hz / for AC / rated value                           | V   | 230                                    |  |
| • at 60 Hz / for AC / rated value                           | V   | 230                                    |  |
| Apparent holding power / of the solenoid / for AC           | V·A | 9.8                                    |  |
| Inductive power factor / with the pull-in power of the coil |     | 0.27                                   |  |
| Auxiliary circuit:  |     |  |  |
| Product extension / auxiliary switch                        |     | Yes                                    |  |
| Number of NC contacts / for auxiliary contacts              |     | 1                                      |  |
| Number of NO contacts / for auxiliary contacts              |     | 1                                      |  |
| Number of change-over switches / for auxiliary contacts     |     | 0                                      |  |
| Inputs/ Outputs:  |     |  |  |
| Number of digital inputs                                    |     | 0                                      |  |
| Short-circuit:  |     |  |  |
| Product function / short circuit protection                 |     | Yes                                    |  |
| Design of the short-circuit protection                      |     | circuit-breakers                       |  |
| Breaking capacity limit short-circuit current (lcu)         |     |  |  |
| • at 400 V / rated value                                    | А   | 25,000                                 |  |
| • at 500 V / rated value                                    | А   | 5,000                                  |  |
| • at 690 V / rated value                                    | А   | 2,000                                  |  |
| Installation/mounting/dimensions:                           |     |  |  |
| Built in orientation  |     | vertical                               |  |
| Type of mounting  |     | for snapping onto 60 mm busbar systems |  |
| Width   | mm  | 45                                     |  |
| Height  | mm  | 260                                    |  |
| Depth   | mm  | 164.9                                  |  |
| Distance, to be maintained, to the ranks assembly           |     |  |  |
| • forwards  | mm  | 10                                     |  |
| • backwards   | mm  | 0                                      |  |
| • upwards   | mm  | 30                                     |  |
| downwards   | mm  | 30                                     |  |

| • sidewards                                     | mm | 0  |
|---|----|----|
| Distance, to be maintained, to earthed part     |    |    |
| • forwards                                      | mm | 10 |
| backwards                                       | mm | 0  |
| • upwards                                       | mm | 30 |
| downwards                                       | mm | 10 |
| • sidewards                                     | mm | 9  |
| Distance, to be maintained, conductive elements |    |    |
| • forwards                                      | mm | 10 |
| backwards                                       | mm | 0  |
| • upwards                                       | mm | 30 |
| downwards                                       | mm | 10 |
| • sidewards                                     | mm | 9  |
|   |    |    |

| Design of the electrical connection                             |  |                         |  |
|---|--|-------------------------|--|
| for main current circuit  |  | spring-loaded terminals |  |
| <ul> <li>for auxiliary and control current circuit</li> </ul>   |  | spring-loaded terminals |  |
| Type of the connectable conductor cross-section                 |  |                         |  |
| for main contacts   |  |                         |  |
| • solid   |  | 2x (1 10 mm2)           |  |
| • stranded  |  | 2x (1.0 10 mm2)         |  |
| finely stranded   |  |                         |  |
| <ul> <li>with conductor end processing</li> </ul>               |  | 2x (1 6 mm2)            |  |
| <ul> <li>without conductor final cutting</li> </ul>             |  | 2x (1 6 mm2)            |  |
| <ul> <li>for AWG conductors / for main contacts</li> </ul>      |  | 2x (18 8)               |  |
| <ul> <li>for auxiliary contacts</li> </ul>                      |  |                         |  |
| • solid   |  | 2x (0.5 2.5 mm2)        |  |
| finely stranded   |  |                         |  |
| <ul> <li>with conductor end processing</li> </ul>               |  | 2x (0.5 1.5 mm2)        |  |
| <ul> <li>without conductor final cutting</li> </ul>             |  | 2 x (0.5 1.5 mm2)       |  |
| <ul> <li>for AWG conductors / for auxiliary contacts</li> </ul> |  | 2x (20 14)              |  |
| Certificates/approvals:   |  |                         |  |
| Verification of suitability                                     |  | CE / UL / CSA / CCC     |  |
|   |  |                         |  |

| Varification of suitability / ATEX |
|------------------------------------|
|------------------------------------|

No

| General Product<br>Approval   | For use in<br>hazardous<br>locations            | Test Certificates   | Shipping A  | oproval   |      |
|---|---|---------------------|-------------|-----------|------|
| ROSTEST   | DEKRA EXAM,<br>DMT                              | Manufacturer        | ABS         | PRS       | RINA |
| other   |   |                     |             |           |      |
| Manufacturer  | other   |                     |             |           |      |
| UL/CSA ratings  |   |                     |             |           |      |
| yielded mechanical p  | erformance (hp)                                 |                     |             |           |      |
| <ul> <li>for single-phase so</li> </ul>                               | uirrel cage motors                              |                     |             |           |      |
| • at 230 V / rated  | value   |                     | hp          | 5         |      |
| <ul> <li>for three-phase squ</li> </ul>                               | uirrel cage motors                              |                     |             |           |      |
| • at 220/230 V / ra   | ated value                                      |                     | hp          | 10        |      |
| • at 460/480 V / rated value  |   | hp                  | 20          |           |      |
| • at 575/600 V / rated value  |   | hp                  | 25          |           |      |
| Operating current (FL   | A) / for three-phase s                          | quirrel cage motors |             |           |      |
| <ul> <li>at 480 V / rated val</li> </ul>                              | ue  |                     | А           | 14        |      |
| • at 600 V / rated val  | ue  |                     | А           | 17        |      |
| Contact rating designation / for auxiliary contacts / according to UL |   |                     | A600 / Q600 |           |      |
| Safety:   |   |                     |             |           |      |
| B10 value / with high   | demand rate                                     |                     |             |           |      |
| <ul> <li>according to SN 31</li> </ul>                                | 920   |                     |             | 1,000,000 |      |
| Failure rate (FIT value   | e) / with low demand r                          | ate                 |             |           |      |
| according to SN 31920   |   | FIT                 | 150         |           |      |
| Proportion of danger  | ous failures                                    |                     |             |           |      |
| with low demand rate / according to SN 31920                          |   | %                   | 40          |           |      |
| <ul> <li>with high demand rate / according to SN 31920</li> </ul>     |   | %                   | 75          |           |      |
| T1 value / for proof te   | st interval or service                          | life                |             |           |      |
| <ul> <li>according to IEC 6</li> </ul>                                | 1508  |                     | а           | 10        |      |
| Protection against ele  | Protection against electrical shock finger-safe |                     |             |           |      |
| Further information:  |   |                     |             |           |      |

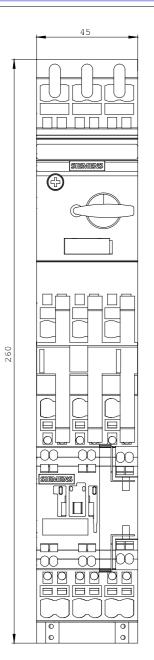
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

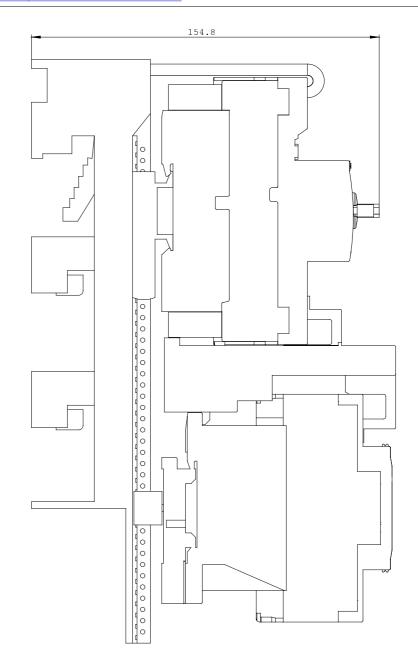
Industry Mall (Online ordering system) http://www.siemens.com/industrial-controls/mall

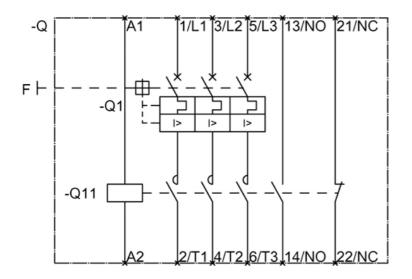
CAx-Online-Generator http://www.siemens.com/cax

## Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA2120-4EH27-0AP0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RA2120-4EH27-0AP0







last change:

Oct 17, 2011