## SIEMENS



| - at AC-3 Rated value maximum | V | 690 |
| :---: | :---: | :---: |
| Operating current <br> - at AC-1 |  |  |
| — at 400 V at ambient temperature $40^{\circ} \mathrm{C}$ Rated value | A | 18 |
| —up to 690 V at ambient temperature $40^{\circ} \mathrm{C}$ <br> Rated value | A | 18 |
| —up to 690 V at ambient temperature $60^{\circ} \mathrm{C}$ Rated value | A | 16 |
| - at AC-2 at 400 V Rated value <br> - at AC-3 | A | 7 |
| - at 400 V Rated value | A | 7 |
| - at 500 V Rated value | A | 6 |
| - at 690 V Rated value | A | 4.9 |
| - at AC-4 at 400 V Rated value | A | 6.5 |
| Operating current with 1 current path <br> - at DC-1 |  |  |
| - at 24 V Rated value | A | 15 |
| - at 110 V Rated value | A | 1.5 |
| - at 220 V Rated value | A | 0.6 |
| - at 440 V Rated value | A | 0.42 |
| - at 600 V Rated value | A | 0.42 |
| - at DC-3 at DC-5 |  |  |
| - at 24 V Rated value | A | 15 |
| - at 110 V Rated value | A | 0.1 |
| Operating current with 2 current paths in series <br> - at DC-1 |  |  |
| - at 24 V Rated value | A | 15 |
| - at 110 V Rated value | A | 8.4 |
| - at 220 V Rated value | A | 1.2 |
| - at 440 V Rated value | A | 0.6 |
| - at 600 V Rated value | A | 0.5 |
| - at DC-3 at DC-5 |  |  |
| - at 110 V Rated value | A | 0.25 |
| - at 24 V Rated value | A | 15 |
| Operating current with 3 current paths in series <br> - at DC-1 |  |  |
| - at 24 V Rated value | A | 15 |
| - at 110 V Rated value | A | 15 |
| - at 220 V Rated value | A | 15 |
| - at 440 V Rated value | A | 0.9 |
| - at 600 V Rated value | A | 0.7 |

- at DC-3 at DC-5
- at 110 V Rated value
- at 220 V Rated value
- at 24 V Rated value
- at 440 V Rated value
- at 600 V Rated value

| A | 15 |
| :--- | :--- |
| A | 1.2 |
| A | 15 |
| A | 0.14 |
| A | 0.14 |

## Operating power

- at $\mathrm{AC}-1$ at 400 V Rated value
- at AC-2 at 400 V Rated value
- at AC-4 at 400 V Rated value


## Operating power

- at AC-1
- at 230 V at $60^{\circ} \mathrm{C}$ Rated value
- at 230 V Rated value
- at 400 V at $60^{\circ} \mathrm{C}$ Rated value
- at 690 V at $60^{\circ} \mathrm{C}$ Rated value
- at 690 V Rated value
- at AC-3
- at 230 V Rated value
- at 400 V Rated value
- at 690 V Rated value

Operating power for $\geq 200000$ operating cycles at AC-4

- at 400 V Rated value
- at $690 \vee$ Rated value

Operating frequency

- at AC-3 maximum

1/h
750

## Control circuit Control:

| Type of voltage of the control supply voltage |  | AC |
| :--- | :--- | :--- |
| Control supply voltage with AC <br> $\bullet$ at 50 Hz Rated value | V | 220 |
| • at 60 Hz Rated value | V | 240 |
| Operating range factor control supply voltage rated <br> value of the magnet coil with AC |  |  |
| • at 50 Hz |  |  |
| • at 60 Hz |  | $0.8 \ldots 1.1$ |

## Auxiliary circuit:

## Number of NC contacts

- for auxiliary contacts
- instantaneous contact

1

## Number of NO contacts

for auxiliary contacts
— instantaneous contact
Product expansion Auxiliary switch
Operating current at AC-15

- at 230 V Rated value
- at 400 V Rated value
- at 690 V Rated value


## Operating current

- at DC-12 at 125 V Rated value
- at DC-12 at 220 V Rated value
- at DC-12 at 600 V Rated value
- at DC-13 at 125 V Rated value
- at DC-13 at 220 V Rated value
- at DC-13 at 600 V Rated value


## Operating current

- at DC-12
— at 60 V Rated value
- at 110 V Rated value
- at DC-13
— at 24 V Rated value
—at 60 V Rated value
- at 110 V Rated value

Contact reliability of the auxiliary contacts

|  | 0 |
| :---: | :---: |
|  | Yes |
| A | 10 |
| A | 3 |
| A | 1 |
| A | 2 |
| A | 1 |
| A | 0.15 |
| A | 0.9 |
| A | 0.3 |
| A | 0.1 |
| A | 6 |
| A | 3 |
| A | 10 |
| A | 2 |
| A | 1 |
|  | 1 faulty switching per 100 million ( $17 \mathrm{~V}, 1 \mathrm{~mA}$ ) |

## UL/CSA ratings:

Full-load current (FLA) for three-phase AC motor

- at 480 V Rated value
- at 600 V Rated value
yielded mechanical performance [hp]
- for single-phase AC motor at 110/120 V Rated value
- for single-phase AC motor at $230 \vee$ Rated value
- for three-phase AC motor at 200/208 V Rated value
- for three-phase AC motor at 220/230 V Rated value
- for three-phase AC motor at 460/480 V Rated value
- for three-phase AC motor at 575/600 V Rated value
Contact rating of the auxiliary contacts acc. to UL

| A | 4.8 |
| :--- | :--- |
| A | 6.1 |
| metric <br> hp <br> metric <br> hp | 0.25 |
| metric <br> hp <br> metric <br> hp <br> metric <br> hp | 2.75 |
| metric <br> hp | 5 |

## Short-circuit:

## Design of the fuse link

- for short-circuit protection of the main circuit
— with type of assignment 1 required
— with type of assignment 2 required
- for short-circuit protection of the auxiliary switch required

```
gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE:
35 A
gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE:
20 A
fuse gL/gG: 10 A
```

Installation/ mounting/dimensions:
mounting position

## Mounting type

- Side-by-side mounting

- for grounded parts
— forwards
—Backwards
— upwards
— at the side
— downwards
- for live parts
- forwards
— Backwards
- upwards
— downwards
- at the side
$+/-180^{\circ}$ rotation possible on vertical mounting surface; can be tilted forward and backward by +/$22.5^{\circ}$ on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Yes 69.5 45 73
$\mathrm{mm} \quad 0$
$\mathrm{mm} \quad 0$
$\mathrm{mm} \quad 0$
$\mathrm{mm} \quad 0$
$\mathrm{mm} \quad 0$
$\mathrm{mm} \quad 0$
$\mathrm{mm} \quad 0$
$\mathrm{mm} \quad 0$
$\mathrm{mm} \quad 6$
$\mathrm{mm} \quad 0$
$\mathrm{mm} \quad 0$
$\mathrm{mm} \quad 0$
$\mathrm{mm} \quad 0$
$\mathrm{mm} \quad 0$
$\mathrm{mm} \quad 6$


## Connections/ Terminals:

Type of electrical connection

- for main current circuit
- for auxiliary and control current circuit

Type of connectable conductor cross-section
spring-loaded terminals
spring-loaded terminals

- for main contacts
— single or multi-stranded
- finely stranded with core end processing
- finely stranded without core end processing
- for AWG conductors for main contacts
- for auxiliary contacts
— single or multi-stranded
- finely stranded with core end processing
- finely stranded without core end processing
- for AWG conductors for auxiliary contacts

Apparent pick-up power of the magnet coil with AC

- at 50 Hz
- at 60 Hz


Safety related data:
B10 value with high demand rate acc. to SN 31920
Proportion of dangerous failures

- with low demand rate acc. to SN 31920
- with high demand rate acc. to SN 31920

Failure rate [FIT] with low demand rate acc. to SN 31920
Product function Mirror contact acc. to IEC 60947-4-1
T1 value for proof test interval or service life acc. to IEC 61508

Protection against electrical shock

1000000
\% 40
\% 73

FIT 100

Yes
20
finger-safe

## Mechanical data:

Size of contactor
S00
Ambient conditions:
Installation altitude at height above sea level maximum
Ambient temperature

- during operation
- during storage
m 2000
${ }^{\circ} \mathrm{C} \quad-25 \ldots+60$
${ }^{\circ} \mathrm{C}$


## Certificates/ approvals:

| General Product Approval | Functional <br> Safety/Safety <br> of Machinery |
| :--- | :--- | :--- | :--- |
| Test |  |
| Certificates |  |
| Special Test |  |
| Certificate |  |
| Conformity |  |

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...)
http://www.siemens.com/industrial-controls/catalogs
Industry Mall (Online ordering system)
http://www.siemens.com/industrymall

## Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT20152AP62
Service\&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3RT20152AP62/all
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT20152AP62\&lang=en



