



Figure similar

Non-reversing motor starter Size 0 Three phase full voltage Amb compensate bimetal OLrelay Contactor amp rating 18Amp 190-220/220-240V 50/60HZ coil Combination type 3Amp circuit breaker Encl NEMA type 4X 316 S-steel Water/dust tight noncorrosive Extra-wide enclosure

| General technical data                                       |                          |
|--|--------------------------|
| Weight [lb]  | 48 lb                    |
| Height x Width x Depth [in]                                  | 24 × 20 × 8 in           |
| Protection against electrical shock                          | NA for enclosed products |
| Installation altitude [ft] at height above sea level maximum | 6560 ft                  |
| Ambient temperature [°F] during storage                      | -22 ... +149 °F          |
| Ambient temperature [°F] during operation                    | -4 ... +104 °F           |
| Ambient temperature during storage                           | -30 ... +65 °C           |
| Ambient temperature during operation                         | -20 ... +40 °C           |
| Country of origin  | USA                      |
| Horsepower ratings   |                          |
| Yielded mechanical performance [hp] for three-phase AC motor |                          |
| • at 200/208 V rated value                                   | 0.5 hp                   |
| • at 220/230 V rated value                                   | 0.5 hp                   |
| • at 460/480 V rated value                                   | 1 hp                     |

- at 575/600 V rated value

1 hp

## Contactor

|   |          |
|---|----------|
| Number of NO contacts for main contacts                                 | 3        |
| Operating voltage for main current circuit at AC at 60 Hz maximum       | 600 V    |
| Operating current at AC at 600 V rated value                            | 18 A     |
| Mechanical service life (switching cycles) of the main contacts typical | 10000000 |

## Auxiliary contact

|   |                                     |
|---|-------------------------------------|
| Number of NC contacts at contactor for auxiliary contacts         | 0                                   |
| Number of NO contacts at contactor for auxiliary contacts         | 1                                   |
| Number of total auxiliary contacts maximum                        | 8                                   |
| Contact rating of auxiliary contacts of contactor according to UL | 10A@600VAC (A600), 5A@600VDC (P600) |

## Coil

|  |               |
|--|---------------|
| Type of voltage of the control supply voltage                            | AC            |
| Control supply voltage   |               |
| • at DC rated value  | 0 ... 0 V     |
| • at AC at 60 Hz rated value   | 220 ... 240 V |
| • at AC at 50 Hz rated value   | 190 ... 220 V |
| Holding power at AC minimum  | 8.6 W         |
| Apparent pick-up power of magnet coil at AC                              | 218 V·A       |
| Apparent holding power of magnet coil at AC                              | 25 V·A        |
| Operating range factor control supply voltage rated value of magnet coil | 0.85 ... 1.1  |
| Percental drop-out voltage of magnet coil related to the input voltage   | 50 %          |
| Switch-on delay time   | 19 ... 29 ms  |
| Off-delay time   | 10 ... 24 ms  |

## Overload relay

|   |                      |
|---|----------------------|
| Product function  |                      |
| • Overload protection   | Yes                  |
| • Test function   | Yes                  |
| • External reset  | Yes                  |
| Reset function  | Manual and automatic |
| Adjustment range of thermal overload trip unit                | 0.85 ... 1.15        |
| Number of NC contacts of auxiliary contacts of overload relay | 1                    |
| Number of NO contacts of auxiliary contacts of overload relay | 0                    |

|  |                                     |
|--|-------------------------------------|
| Operating current of auxiliary contacts of overload relay              |                                     |
| • at AC at 600 V   | 10 A                                |
| • at DC at 250 V   | 5 A                                 |
| Contact rating of auxiliary contacts of overload relay according to UL | 10A@600VAC (A600), 5A@250VDC (P300) |

| Enclosure   |  |
|---|--|
| Degree of protection NEMA rating of the enclosure | NEMA 4X 316 stainless steel enclosure        |
| Design of the housing                             | Dust-tight, watertight & corrosion resistant |

| Motor Circuit Protector (magnetic trip only)                              |             |
|---|-------------|
| Operating current of motor circuit breaker rated value                    | 3 A         |
| Adjustable pick-up value current of instantaneous short-circuit trip unit | 10 ... 35 A |

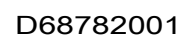
| Mounting/wiring   |   |
|---|---|
| (mounting position)   | Vertical  |
| (mounting type)   | Surface mounting and installation                   |
| Type of electrical connection for supply voltage line-side  | Box lug   |
| Type of connectable conductor cross-sections at line-side at AWG conductors single or multi-stranded                        | 1x (14 AWG ... 10 AWG) or 1x (12 AWG ... 10 AWG)    |
| Temperature of the conductor for supply maximum permissible   | 75 °C   |
| Material of the conductor for supply  | AL or CU  |
| Type of electrical connection for load-side outgoing feeder   | Screw-type terminals                                |
| Tightening torque [lbf·in] for load-side outgoing feeder  | 35 ... 50 lbf·in                                    |
| Type of electrical connection of magnet coil  | Screw-type terminals                                |
| Tightening torque [lbf·in] at magnet coil   | 5 ... 12 lbf·in                                     |
| Type of connectable conductor cross-sections of magnet coil at AWG conductors single or multi-stranded                      | 2x (16 ... 12 AWG)                                  |
| Temperature of the conductor at magnet coil maximum permissible   | 75 °C   |
| Material of the conductor at magnet coil  | CU  |
| Type of electrical connection for auxiliary contacts  | Screw-type terminals                                |
| Tightening torque [lbf·in] at contactor for auxiliary contacts  | 10 ... 15 lbf·in                                    |
| Type of connectable conductor cross-sections at contactor at AWG conductors for auxiliary contacts single or multi-stranded | 1x (12 AWG), 2x (16 ... 14 AWG), 2x (18 ... 16 AWG) |
| Temperature of the conductor at contactor for auxiliary contacts maximum permissible  | 75 °C   |

|  |                      |
|--|----------------------|
| Material of the conductor at contactor for auxiliary contacts  | CU                   |
| Type of electrical connection at overload relay for auxiliary contacts   | Screw-type terminals |
| Tightening torque [lbf·in] at overload relay for auxiliary contacts  | 5 ... 12 lbf·in      |
| Type of connectable conductor cross-sections at overload relay at AWG conductors for auxiliary contacts single or multi-stranded | 2x (16 ... 12 AWG)   |
| Temperature of the conductor at overload relay for auxiliary contacts maximum permissible  | 75 °C                |
| Material of the conductor at overload relay for auxiliary contacts   | CU                   |

| Short-circuit current rating                          |  |
|---|--|
| Design of the short-circuit trip                      | Motor circuit protector (magnetic trip only) |
| Maximum short-circuit current breaking capacity (Icu) |  |
| • at 240 V  | 100 kA                                       |
| • at 480 V  | 100 kA                                       |
| • at 600 V  | 25 kA  |

| Further information   |  |
|---|--|
| <b>Industrial Controls - Product Overview (Catalogs, Brochures,...)</b><br><a href="http://www.usa.siemens.com/iccatalog">www.usa.siemens.com/iccatalog</a>   |  |
| <b>Industry Mall (Online ordering system)</b><br><a href="https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:18CP82XAG81">https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:18CP82XAG81</a>  |  |
| <b>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)</b><br><a href="https://support.industry.siemens.com/cs/US/en/ps/US2:18CP82XAG81">https://support.industry.siemens.com/cs/US/en/ps/US2:18CP82XAG81</a>  |  |
| <b>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)</b><br><a href="http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:18CP82XAG81&amp;lang=en">http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:18CP82XAG81&amp;lang=en</a> |  |
| <b>Certificates/approvals</b><br><a href="https://support.industry.siemens.com/cs/US/en/ps/US2:18CP82XAG81/certificate">https://support.industry.siemens.com/cs/US/en/ps/US2:18CP82XAG81/certificate</a>  |  |





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