## **SIEMENS**

Data sheet US2:18CP82BBG81



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 10Amp circuit breaker Enclosure NEMA type 1 Indoor general purpose use 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                      |

## Vielded mechanical performance [hp] for three-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value 3 hp

| ● at 575/600 V rated value   | 3 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                               |
| <ul> <li>at AC at 60 Hz rated value</li> </ul>                           | 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                           | 1                                   |

overload relay

overload relay

Number of NO contacts of auxiliary contacts of

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 Type 1                |
| Design of the housing                             | Indoor general purpose use |
|   |                            |

| Motor Circuit Protector (magnetic trip only)           |          |
|--|----------|
| Operating current of motor circuit breaker rated value | 10 A     |
| Adjustable pick-up value current of instantaneous      | 30 100 A |
| short-circuit trip unit                                |          |

| Mounting/wiring   |   |
|---|---|
| (mounting position)   | Vertical                                    |
| (mounting type)   | Surface mounting and installation           |
| Type of electrical connection for supply voltage lineside   | Box lug                                     |
| Type of connectable conductor cross-sections at line-<br>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  |

Industrial Controls - Product Overview (Catalogs, Brochures,...)

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:18CP82BBG81

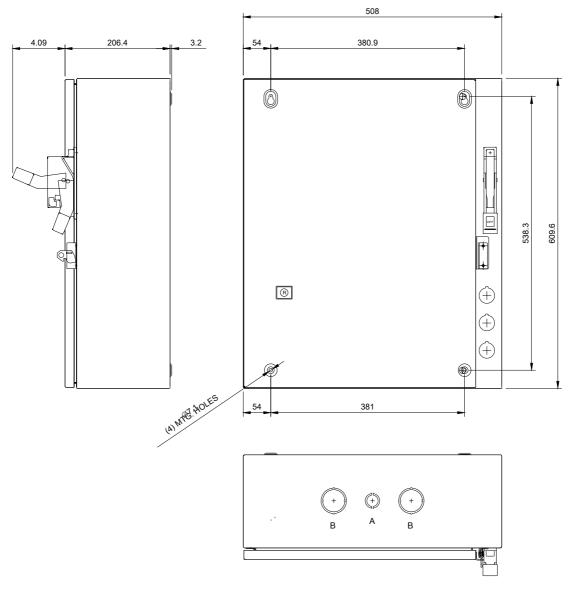
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:18CP82BBG81

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:18CP82BBG81&lang=en

Certificates/approvals

 $\underline{\text{https://support.industry.siemens.com/cs/US/en/ps/US2:18CP82BBG81/certificate}}$ 



\LCONDUITS TYP. TOP & BOTTOM

| LETTER | CONDUIT SIZE            |
|--------|-------------------------|
| Α      | %%C12.7 & %%C19 CONDUIT |
| В      | Ø31.8 & Ø38.1 CONDUIT   |



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last modified: 05/09/2019