

Non-reversing motor starter Size 4 Three phase full voltage Solid-state overload relay OLRelay amp range 50-200A 208VAC 60HZ coil Combination type 150A circuit breaker Enclosure NEMA type 1 Indoor general purpose use Standard width enclosure



Figure similar

| General technical data | |
|--------------------------------------------------------------|--------------------------|
| Height x Width x Depth [in] | 36 × 24 × 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 |

| Horsepower ratings | |
|------------------------------------------------------------------------------|--------|
| Yielded mechanical performance [hp] for three-phase AC motor | |
| <ul style="list-style-type: none"> • at 200/208 V rated value | 40 hp |
| <ul style="list-style-type: none"> • at 220/230 V rated value | 50 hp |
| <ul style="list-style-type: none"> • at 460/480 V rated value | 100 hp |
| <ul style="list-style-type: none"> • at 575/600 V rated value | 100 hp |

Contactors

| | |
|-------------------------------------------------------------------------|---------|
| 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 | 135 A |
| Mechanical service life (switching cycles) of the main contacts typical | 5000000 |

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 | 7 |
| 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 | 208 ... 208 V |
| • at AC at 50 Hz rated value | 0 ... 0 V |
| Holding power at AC minimum | 22 W |
| Apparent pick-up power of magnet coil at AC | 510 V·A |
| Apparent holding power of magnet coil at AC | 51 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 | 18 ... 34 ms |
| Off-delay time | 10 ... 12 ms |

Overload relay

| | |
|----------------------------------------------------------------------------|--------------------------------------|
| Product function | |
| • Overload protection | Yes |
| • Phase failure detection | Yes |
| • Phase unbalance | Yes |
| • Ground fault detection | Yes |
| • Test function | Yes |
| • External reset | Yes |
| Reset function | Manual, automatic and remote |
| Trip class | Class 5 / 10 / 20 (factory set) / 30 |
| Adjustable pick-up value current of the current-dependent overload release | 50 ... 200 A |
| Make time with automatic start after power failure maximum | 3 s |

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Relative repeat accuracy | 1 % |
| Product feature Protective coating on printed-circuit board | Yes |
| Number of NC contacts of auxiliary contacts of overload relay | 1 |
| Number of NO contacts of auxiliary contacts of overload relay | 1 |
| Operating current of auxiliary contacts of overload relay <ul style="list-style-type: none"> • at AC at 600 V • at DC at 250 V | 5 A 1 A |
| Contact rating of auxiliary contacts of overload relay according to UL | 5A@600VAC (B600), 1A@250VDC (R300) |
| Insulation voltage <ul style="list-style-type: none"> • with single-phase operation at AC rated value • with multi-phase operation at AC rated value | 600 V 300 V |

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 | 150 A |
| Adjustable pick-up value current of instantaneous short-circuit trip unit | 800 ... 1500 A |

Mounting/wiring

| | |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Mounting position (mounting type) | Vertical 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 (6 AWG ... 350 Kcmil) or 1x (4 AWG ... 350 Kcmil) |
| 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 | Box lug |
| Tightening torque [lbf·in] for load-side outgoing feeder | 200 ... 200 lbf·in |
| Type of connectable conductor cross-sections at AWG conductors for load-side outgoing feeder single or multi-stranded | 1x (6 AWG ... 250 MCM) |
| Temperature of the conductor for load-side outgoing feeder maximum permissible | 75 °C |
| Material of the conductor for load-side outgoing feeder | CU |

| | |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 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 | 7 ... 10 lbf-in |
| Type of connectable conductor cross-sections at overload relay at AWG conductors for auxiliary contacts single or multi-stranded | 2x (20 ... 14 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 | Instantaneous trip circuit breaker |
| Maximum short-circuit current breaking capacity (Icu) | |
| <ul style="list-style-type: none"> • at 240 V • at 480 V • at 600 V | 100 kA 100 kA 25 kA |

Further information

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=US2:18JUH92BD>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

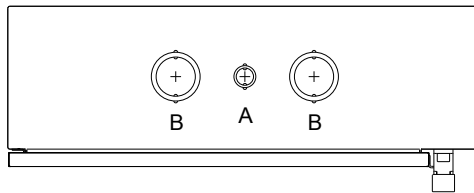
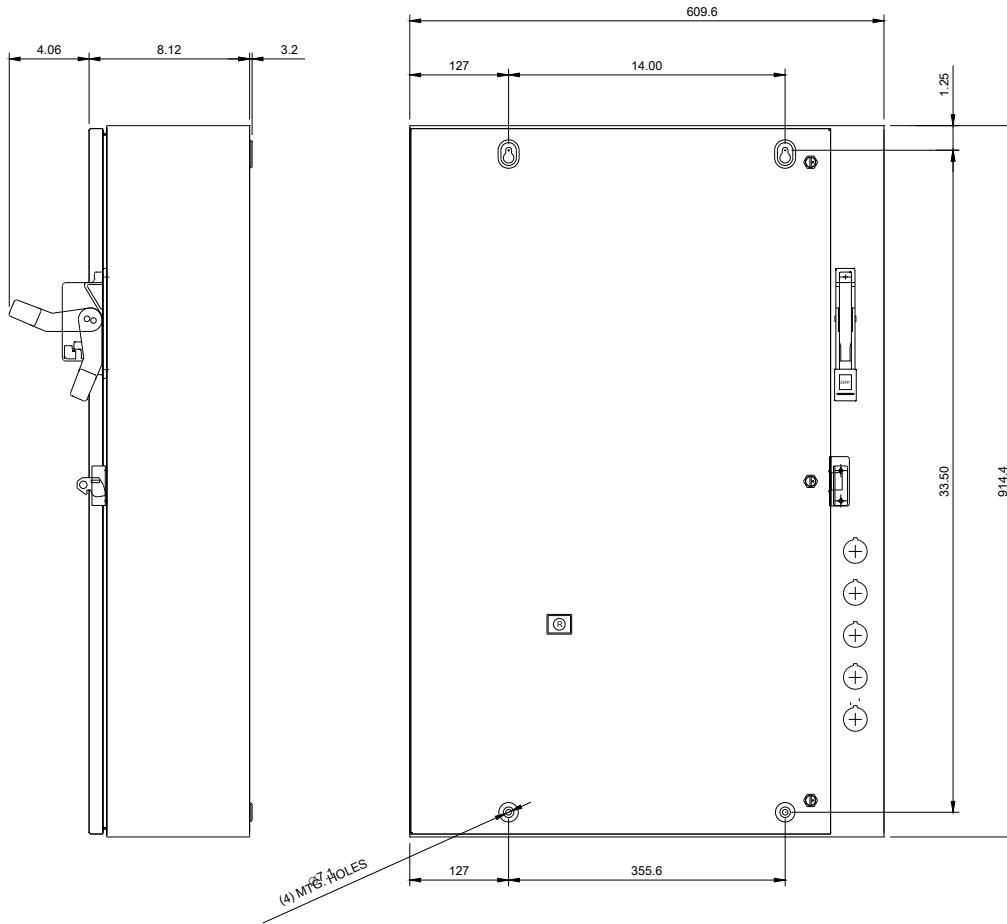
<https://support.industry.siemens.com/cs/US/en/ps/US2:18JUH92BD>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:18JUH92BD&lang=en

Certificates/approvals

<https://support.industry.siemens.com/cs/US/en/ps/US2:18JUH92BD/certificate>



LCONDUITS TYP. TOP & BOTTOM

| LETTER | CONDUIT SIZE |
|--------|---------------------------|
| A | %%C12.7 & %%C19 CONDUIT |
| B | %%C31.8 & %%C38.1 CONDUIT |



D68782001

last modified:

05/08/2019