## **SIEMENS**

Data sheet US2:14CUD32BF



Figure similar

overload relay, OLR amp range 5.5-22A, 110V 50Hz / 120V 60Hz coil, Non-combination type, Enclosure type 1, Indoor general purpose use, Standard width enclosure

Non-reversing motor starter, Size 0, Three phase full voltage, Solid-state

product brand name Class 14 design of the product Full-voltage non-reversing motor starter special product feature ESP200 overload relay General technical data weight [lb] 8 lb Height x Width x Depth [in]  $11 \times 7 \times 5$  in touch protection against electrical shock (NA for enclosed products) installation altitude [ft] at height above sea level maximum 6560 ft ambient temperature [°F] -22 ... +149 °F • during storage during operation -4 ... +104 °F ambient temperature -30 ... +65 °C • during storage • during operation -20 ... +40 °C USA country of origin Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value 3 hp • at 220/230 V rated value 3 hp Contactor NEMA controller size 0 size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz 600 V maximum operational current at AC at 600 V rated value 18 A mechanical service life (operating cycles) of the main 10000000 contacts typical **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 contact rating of auxiliary contacts of contactor according 10A@600VAC (A600), 5A@600VDC (P600) to UL type of voltage of the control supply voltage AC control supply voltage • at AC at 50 Hz rated value 110 V • at AC at 60 Hz rated value 120 V 8.6 W holding power at AC minimum

apparent pick-up power of magnet coil at AC

218 VA

25 VA apparent holding power of magnet coil at AC operating range factor control supply voltage rated value 0.85 ... 1.1 of magnet coil percental drop-out voltage of magnet coil related to the 50 % input voltage ON-delay time 19 ... 29 ms OFF-delay time 10 ... 24 ms Overload relay product function overload protection Yes • phase failure detection Yes asymmetry detection 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 current response value current of the current-5.5 ... 22 A dependent overload release 3 s tripping time at phase-loss maximum relative repeat accuracy 1 % product feature protective coating on printed-circuit board Yes number of NC contacts of auxiliary contacts of overload 1 number of NO contacts of auxiliary contacts of overload 1 relav operational current of auxiliary contacts of overload relay at AC at 600 V 5 A • at DC at 250 V 1 A contact rating of auxiliary contacts of overload relay 5A@600VAC (B600), 1A@250VDC (R300) according to UL insulation voltage (Ui) • with single-phase operation at AC rated value 600 V 300 V • with multi-phase operation at AC rated value degree of protection NEMA rating design of the housing Indoor general purpose use Mounting/wiring mounting position fastening method Surface mounting and installation Screw-type terminals type of electrical connection for supply voltage line-side 20 ... 20 lbf·in tightening torque [lbf·in] for supply type of connectable conductor cross-sections at line-side 1x(14 - 2 AWG) at AWG cables single or multi-stranded 75 °C temperature of the conductor for supply maximum permissible 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 20 20 lbf·in type of connectable conductor cross-sections at AWG 1x(14 - 2 AWG) cables for load-side outgoing feeder single or multistranded 75 °C temperature of the conductor for load-side outgoing feeder maximum permissible material of the conductor for load-side outgoing feeder AL or 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 2 x (16 - 12 AWG) coil at AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum 75 °C permissible CU material of the conductor at magnet coil 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 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)

at AWG cables for auxiliary contacts single or multi-

stranded

temperature of the conductor at contactor for auxiliary contacts maximum permissible

material of the conductor at contactor for auxiliary contacts

type of electrical connection at overload relay for auxiliary contacts

tightening torque [lbf-in] at overload relay for auxiliary contacts  $% \left( 1\right) =\left( 1\right) \left( 1\right)$ 

type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi-stranded

temperature of the conductor at overload relay for auxiliary contacts maximum permissible

material of the conductor at overload relay for auxiliary contacts

75 °C

CU

screw-type terminals

7 ... 10 lbf·in

2 x (20 - 14 AWG)

75 °C

CU

## **Short-circuit current rating**

design of the fuse link for short-circuit protection of the main circuit required

design of the short-circuit trip

maximum short-circuit current breaking capacity (Icu)

at 240 Vat 480 V

• at 600 V

certificate of suitability

10kA@600V (Class H or K); 100kA@600V (Class R or J)

Thermal magnetic circuit breaker

14 kA

10 kA

10 kA

NEMA ICS 2; UL 508; CSA 22.2, No.14

## **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=US2:14CUD32BF

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

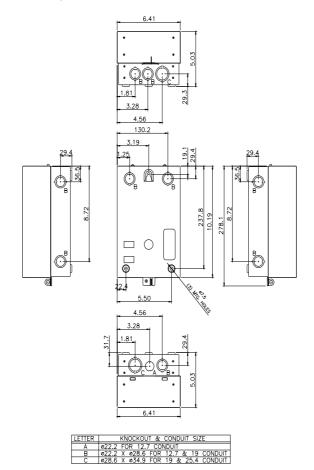
https://support.industry.siemens.com/cs/US/en/ps/US2:14CUD32BF

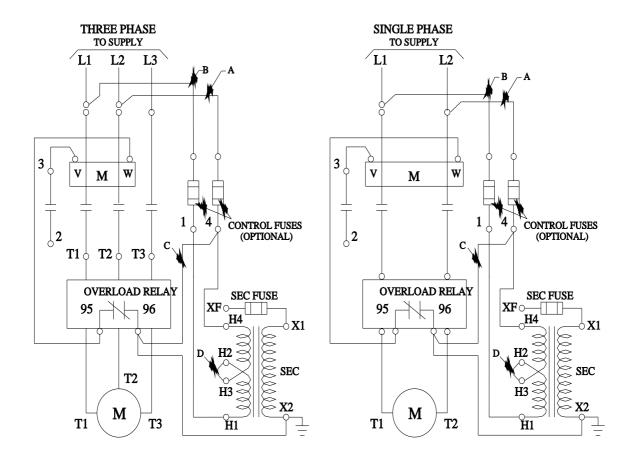
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:14CUD32BF&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14CUD32BF/certificate





last modified: 11/29/2021 🖸