SIEMENS

Data sheet US2:18CUD82XJ



Non-reversing motor starter Size 0 Three phase full voltage Solidstate overload relay OLRelay amp range 5.5-22A 24VAC 50-60HZ coil Combination type 25Amp circuit breaker Encl NEMA type 4X 316 S-steel Water/dust tight noncorrosive Extra-wide enclosure

Figure similar

General technical data	
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

Horsepower ratings	
Yielded mechanical performance [hp] for three-phase	
AC motor	
• at 200/208 V rated value	3 hp
• at 220/230 V rated value	3 hp
• at 460/480 V rated value	0 hp
• at 575/600 V rated value	0 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	
Coil	
Coil Type of voltage of the control supply voltage	AC
	AC
Type of voltage of the control supply voltage	AC 0 0 V
Type of voltage of the control supply voltage Control supply voltage	
Type of voltage of the control supply voltage Control supply voltage at DC rated value	0 0 V
Type of voltage of the control supply voltage Control supply voltage at DC rated value at AC at 60 Hz rated value	0 0 V 24 24 V
Type of voltage of the control supply voltage Control supply voltage at DC rated value at AC at 60 Hz rated value at AC at 50 Hz rated value	0 0 V 24 24 V 24 24 V
Type of voltage of the control supply voltage Control supply voltage at DC rated value at AC at 60 Hz rated value at AC at 50 Hz rated value Holding power at AC minimum	0 0 V 24 24 V 24 24 V 8.6 W

Overload relay	
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	5.5 22 A
Make time with automatic start after power failure maximum	3 s
Relative repeat accuracy	1 %
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	
• at AC at 600 V	5 A

50 %

19 ... 29 ms

10 ... 24 ms

value of magnet coil

the input voltage
Switch-on delay time

Off-delay time

Percental drop-out voltage of magnet coil related to

● at DC at 250 V	1 A
Contact rating of auxiliary contacts of overload relay	5A@600VAC (B600), 1A@250VDC (R300)
according to UL	o. (@000 // to (2000), // (@200 / 20 (1 (000)
Insulation voltage	
 with single-phase operation at AC rated value 	600 V
with multi-phase operation at AC rated value	300 V
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	25 A
Adjustable pick-up value current of instantaneous	55 180 A
short-circuit trip unit	
Mounting/wiring	
Mounting position	Vertical
(mounting type)	Surface mounting and installation
Type of electrical connection for supply voltage line-	Box lug
side	
Type of connectable conductor cross-sections at line-	1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)
side at AWG conductors single or multi-stranded	
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	Screw-type terminals
feeder	osion type to minute
Tightening torque [lbf·in] for load-side outgoing	20 20 lbf·in
feeder	
Type of connectable conductor cross-sections at	1x (14 2 AWG)
AWG conductors for load-side outgoing feeder single	
or multi-stranded	
Temperature of the conductor for load-side outgoing	75 °C
feeder maximum permissible	AL or CII
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	2x (16 12 AWG)
magnet coil at AWG conductors single or multi-	2(
stranded	
Temperature of the conductor at magnet coil	75 °C
maximum permissible	
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)	
● at 240 V	100 kA
● at 480 V	100 kA
• at 600 V	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=US2:18CUD82XJ

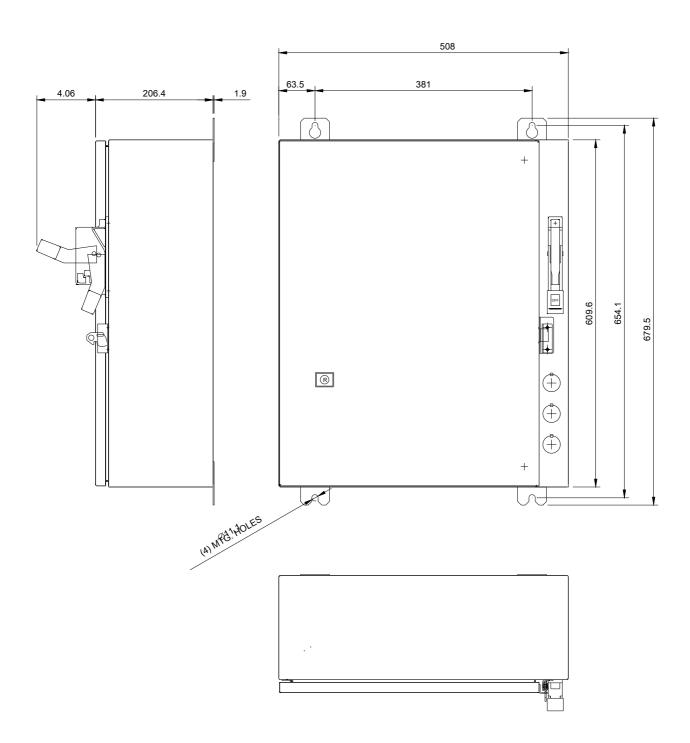
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

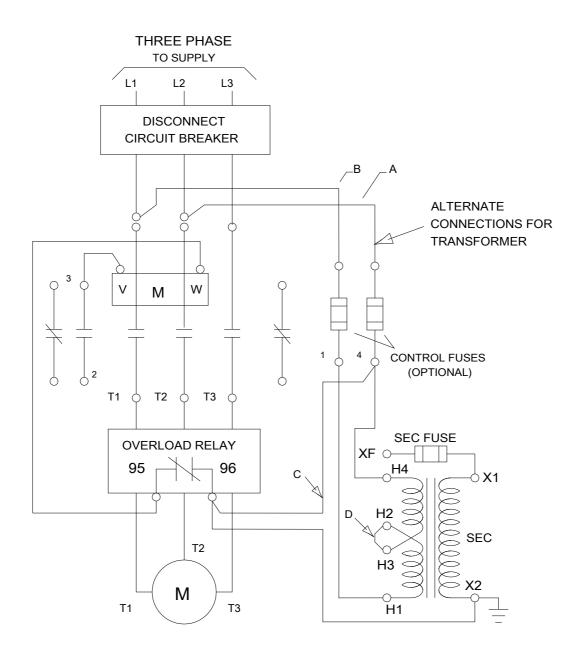
https://support.industry.siemens.com/cs/US/en/ps/US2:18CUD82XJ

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:18CUD82XJ&lang=en

Certificates/approvals

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