## **SIEMENS**

Data sheet US2:18CUD92NA



Non-reversing motor starter Size 0 Three phase full voltage Solid-state overload relay OLRelay amp range 5.5-22A 110-120/220-240VAC 60HZ coil Combination type 25Amp circuit breaker Enclosure NEMA type 4/12 Water/dust tight for outdoors Standard width enclosure

Figure similar

product brand name	Class 18 & 26
design of the product	Full-voltage non-reversing motor starter with motor circuit protector
special product feature	ESP200 overload relay; Dual voltage coil
General technical data	
Height x Width x Depth [in]	24 × 11 × 8 in
touch 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
during operation	-4 +104 °F
ambient temperature	
during storage	-30 +65 °C
<ul> <li>during operation</li> </ul>	-20 +40 °C
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
<ul> <li>at 200/208 V rated value</li> </ul>	3 hp
• at 220/230 V rated value	3 hp
<ul><li>at 460/480 V rated value</li></ul>	0 hp
<ul><li>at 575/600 V rated value</li></ul>	0 hp
Contactor	
size of contactor	NEMA controller size 0
number of NO contacts for main contacts	3
operating voltage for main current circuit at AC at 60 Hz maximum	600 V
operational 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 AC at 60 Hz rated value	110 240 V
holding power at AC minimum	8.6 W

apparent pick-up power of magnet coil at AC	218 VA
apparent holding power of magnet coil at AC	25 VA
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 %
ON-delay time	19 29 ms
OFF-delay time	10 24 ms
Overload relay	
product function	
<ul> <li>overload protection</li> </ul>	Yes
<ul> <li>phase failure detection</li> </ul>	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- dependent overload release	5.5 22 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
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 according to UL	5A@600VAC (B600), 1A@250VDC (R300)
insulation voltage (Ui)	
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	4, 12
design of the housing	dustproof, waterproof & weatherproof
Circuit Breaker	
type of the motor protection	Motor circuit protector (magnetic trip only)
operational current of motor circuit breaker rated value	25 A
adjustable current response value current of instantaneous short-circuit trip unit	55 180 A
Mounting/wiring	
mounting position	Vertical
fastening method	Surface mounting and installation
type of electrical connection for supply voltage line-side	Box lug
type of electrical conflection for supply voltage life-side type of connectable conductor cross-sections at line-side at AWG cables 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	20 20 lbf-in
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded	1x (14 2 AWG)
temperature of the conductor for load-side outgoing feeder maximum permissible	75 °C
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
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type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum permissible  material of the conductor at magnet coil cutype of electrical connection for auxiliary contacts tightening torque [lbf-in] at contactor for auxiliary contacts at AWG cables for auxiliary contacts single or multi-stranded temperature of the conductor at contactor for auxiliary contacts type of connectable conductor at contactor 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 the 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 conductor at overload relay for auxiliary contacts maximum permissible conductor at overload relay for auxiliary contacts maximum permissible conductor at overload relay for auxiliary contacts maximum permissible conductor at overload relay for auxiliary contacts maximum permissible conductor at overload relay for auxiliary contacts smaximum permissible conductor at overload relay for auxiliary contacts maximum permissible conductor at overload relay for auxiliary contacts smaximum permissible conductor at overload relay for auxiliary contacts smaximum permissible conductor at overload relay for auxiliary contacts smaximum permissible conductor at overload relay for auxiliary contacts smaximum permissible conductor at overload relay for auxiliary contacts smaximum permissible conductor at overload relay for auxiliary contacts smaximum permissible conductor at overload relay for auxiliary contacts smaximum permissible conductor at overload relay for auxiliary contacts smaximum permissible conductor at over		
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tightening torque [lbf-in] at contactor for auxiliary contacts type of connectable conductor cross-sections at contactor 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 tightening torque [lbf-in] at overload relay for auxiliary contacts 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  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  Short-circuit current rating design of the short-circuit trip  Instantaneous trip circuit breaker  10 15 lbf-in  1x (12 AWG), 2x (16 14 AWG)  2c CU  Screw-type terminals  CU  2x (20 14 AWG)  2x (20 14 AWG)  75 °C  CU  CU  CU  Instantaneous trip circuit breaker	material of the conductor at magnet coil	CU
type of connectable conductor cross-sections at contactor 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  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  temperature of the conductor at overload relay for auxiliary contacts  temperature of the conductor at overload relay for auxiliary contacts maximum permissible  material of the conductor at overload relay for auxiliary contacts maximum permissible  material of the conductor at overload relay for auxiliary contacts  Short-circuit current rating  design of the short-circuit trip  Instantaneous trip circuit breaker  breaking capacity maximum short-circuit current (Icu)  • at 240 V  100 kA	type of electrical connection for auxiliary contacts	Screw-type terminals
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type of electrical connection at overload relay for auxiliary contacts  tightening torque [lbf-in] at overload relay for auxiliary contacts  type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multistranded  temperature of the conductor at overload relay for auxiliary contacts maximum permissible  material of the conductor at overload relay for auxiliary contacts  Short-circuit current rating  design of the short-circuit trip  breaking capacity maximum short-circuit current (Icu)  • at 240 V  Screw-type terminals  C u. 10 lbf-in  2x (20 14 AWG)  Ct CC  CU  Instantaneous trip circuit breaker	'	75 °C
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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  Short-circuit current rating design of the short-circuit trip Instantaneous trip circuit breaker  breaking capacity maximum short-circuit current (Icu) • at 240 V  100 kA	31	Screw-type terminals
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design of the short-circuit trip  breaking capacity maximum short-circuit current (Icu)  • at 240 V  Instantaneous trip circuit breaker  100 kA		CU
breaking capacity maximum short-circuit current (Icu)  ● at 240 V  100 kA	Short-circuit current rating	
• at 240 V 100 kA	design of the short-circuit trip	Instantaneous trip circuit breaker
	breaking capacity maximum short-circuit current (Icu)	
	• at 240 V	100 kA
● at 480 V 100 kA	• at 480 V	100 kA
• at 600 V 25 kA	● at 600 V	25 kA
certificate of suitability NEMA ICS 2; UL 508; CSA 22.2, No.14	certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14
Further information	Further information	

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Industry Mall (Online ordering system)

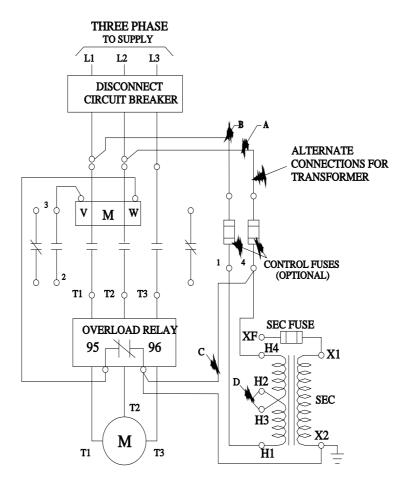
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Certificates/approvals

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