SIEMENS

Data sheet US2:18CUC82WF



Non-reversing motor starter, Size 0, Three phase full voltage, Solid-state overload relay, OLR amp range 3-12A, 110V 50Hz / 120V 60Hz coil, Combination type, 10A circuit breaker, Encl NEMA type 4X 304 S-Steel, Water/dust tight noncorrosive, Extra-wide enclosure

Figure similar

design of the product special product feature ESP200 overload relay General technical data Height x Width x Depth [in]	product brand name	Class 18 & 26
Height x Width x Depth [in] 24 × 20 × 8 in touch protection against electrical shock installation altitude [it] at height above sea level maximum ambient temperature ["F] • during storage	design of the product	Full-voltage non-reversing motor starter with motor circuit protector
Height x Width x Depth [in] touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature [°F] • during storage • during operation • during storage • during operation • during storage • during operation • at 200/208 V rated value • at 220/230 V rated value • at 220/230 V rated value • at 450/480 V rated value • at 450/480 V rated value • at 575/600 V rated value • at 675/600 V rated value • Stoperating voltage for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxi	special product feature	ESP200 overload relay
touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature [°F] • during storage	General technical data	
installation altitude [ft] at height above sea level maximum ambient temperature [*F] • during storage • during operation 4+104 *F ambient temperature • during operation 4+104 *F ambient temperature • during operation 4+40 *C Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 4575/600 V rated value • at 4575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value Size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NO contacts at contacts for auxiliary contacts number of NO contacts at contacts for auxiliary contacts number of NO contacts at contacts for auxiliary contacts number of NO contacts at contacts for auxiliary contacts number of NO contacts at contacts for auxiliary contacts number of NO contacts at contacts for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts for contacts according to UL Coll type of voltage of the control supply voltage • at AC at 50 Hz rated value 110 V	Height x Width x Depth [in]	24 × 20 × 8 in
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during operation ambient temperature during storage during operation during operation during operation Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 450/600 V rated value at 575/600 V rated value isize of contactor size of contactor number of NO contacts for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value above the main contacts yield (switching cycles) of the main contacts yield (switching cycles) of the main contacts of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of voltal auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage at AC at 50 Hz rated value 10 V	ambient temperature [°F]	
ambient temperature • during storage • during operation -20 +65 °C -20 +40 °C Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 575/600 V rated value 5 hp Contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 18 A mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts for auxiliary contacts number of total auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage • at AC at 50 Hz rated value 110 V	 during storage 	-22 +149 °F
• during storage • during operation • during operation Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value Size of contactor size of contactor number of NO contacts for main contacts 3 operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts at contactor according to UL Coll type of voltage of the control supply voltage • at AC at 50 Hz rated value 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	during operation	-4 +104 °F
• during operation -20 +40 °C Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 60 round	ambient temperature	
yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value	during storage	-30 +65 °C
yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 4575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value Size of contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 18 A mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts for auxiliary contacts 1 number of total auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage • at AC at 50 Hz rated value 110 V	during operation	-20 +40 °C
motor • at 200/208 V rated value • at 220/230 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value 5 hp Contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 18 A mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage • at AC at 50 Hz rated value 2 hp 2 hp 4 hp 5 hp 600 V MEMA controller size 0 600 V 8 d 600 V 100000000 100000000 100000000 1000000	Horsepower ratings	
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mechanical service life (switching cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage • at AC at 50 Hz rated value 10000000 10000000 100000000 1000000		600 V
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number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage • at AC at 50 Hz rated value ontacts at contactor for auxiliary contacts 1 10A@600VAC (A600), 5A@600VDC (P600) AC AC		10000000
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contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage • at AC at 50 Hz rated value 10A@600VAC (A600), 5A@600VDC (P600) AC AC	number of NO contacts at contactor for auxiliary contacts	1
to UL Coil type of voltage of the control supply voltage AC control supply voltage • at AC at 50 Hz rated value 110 V	number of total auxiliary contacts maximum	8
type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value 110 V		10A@600VAC (A600), 5A@600VDC (P600)
control supply voltage • at AC at 50 Hz rated value 110 V	Coil	
• at AC at 50 Hz rated value 110 V	type of voltage of the control supply voltage	AC
	control supply voltage	
• at AC at 60 Hz rated value 120 V	 at AC at 50 Hz rated value 	110 V
	 at AC at 60 Hz rated value 	120 V

holding power at AC minimum	8.6 W
	218 VA
apparent pick-up power of magnet coil at AC 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	
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	3 12 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
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	4X, 304 stainless steel
design of the housing	dustproof, waterproof & resistant to corrosion
design of the housing Circuit Breaker	dustproof, waterproof & resistant to corrosion
Circuit Breaker type of the motor protection	Motor circuit protector (magnetic trip only)
type of the motor protection operational current of motor circuit breaker rated value	Motor circuit protector (magnetic trip only) 10 A
type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit	Motor circuit protector (magnetic trip only)
type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of	Motor circuit protector (magnetic trip only) 10 A
type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position	Motor circuit protector (magnetic trip only) 10 A
type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method	Motor circuit protector (magnetic trip only) 10 A 30 100 A Vertical Surface mounting and installation
type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side	Motor circuit protector (magnetic trip only) 10 A 30 100 A Vertical Surface mounting and installation Box lug
type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded	Motor circuit protector (magnetic trip only) 10 A 30 100 A Vertical Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG)
type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side	Motor circuit protector (magnetic trip only) 10 A 30 100 A Vertical Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C
type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply	Motor circuit protector (magnetic trip only) 10 A 30 100 A Vertical Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU
type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder	Motor circuit protector (magnetic trip only) 10 A 30 100 A Vertical Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals
type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder	Motor circuit protector (magnetic trip only) 10 A 30 100 A Vertical Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals 20 20 lbf·in
type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit Mounting/wiring mounting position fastening method type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder	Motor circuit protector (magnetic trip only) 10 A 30 100 A Vertical Surface mounting and installation Box lug 1x (14 AWG 10 AWG) or 1x (12 AWG 10 AWG) 75 °C AL or CU Screw-type terminals
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type of connectable conductor cross-sections at contactor at AWG cables 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 cables 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
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	100 kA
• at 480 V	100 kA
• at 600 V	25 kA
certificate of suitability	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=US2:18CUC82WF

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:18CUC82WF

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:18CUC82WF&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:18CUC82WF/certificate

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