SIEMENS

Data sheet US2:18CUC82BL



Non-reversing motor starter, Size 0, Three phase full voltage, Solid-state overload relay, OLR amp range 3-12A, 240V 50Hz / 277V 60Hz coil, Combination type, 10A circuit breaker, Enclosure NEMA type 1, Indoor general purpose use, Extra-wide enclosure

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
General technical data	20. 200 07011000 10101
Height x Width x Depth [in]	24 × 20 × 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]	0000 10
during storage	-22 +149 °F
during operation	-4 +104 °F
ambient temperature	
during storage	-30 +65 °C
during operation	-20 +40 °C
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
• at 200/208 V rated value	2 hp
• at 220/230 V rated value	2 hp
• at 460/480 V rated value	5 hp
• at 575/600 V rated value	5 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 (operating 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 50 Hz rated value	240 V
 at AC at 60 Hz rated value 	277 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	0.85 1.1

magnet ceil	
magnet coil percental drop-out voltage of magnet coil related to the input	50 %
voltage	OU /0
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- dependent overload release	3 12 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 contact rating of qualitary contacts of everload relay according to	1 A 5.0000000 (Penn) 10.00500/DC (Penn)
contact rating of auxiliary contacts of overload relay according to UL	5A@600VAC (B600), 1A@250VDC (R300)
insulation voltage (Ui)	600.1/
with single-phase operation at AC rated value with small phase operation at AC rated value	600 V
with multi-phase operation at AC rated value	300 V
F-37-57-57-118-6	
Enclosure	1
degree of protection NEMA rating	1 independ upplie on a general basis
degree of protection NEMA rating design of the housing	1 indoors, usable on a general basis
degree of protection NEMA rating design of the housing Circuit Breaker	indoors, usable on a general basis
degree of protection NEMA rating design of the housing Circuit Breaker type of the motor protection	indoors, usable on a general basis Motor circuit protector (magnetic trip only)
degree of protection NEMA rating design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous	indoors, usable on a general basis
degree of protection NEMA rating design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit	indoors, usable on a general basis Motor circuit protector (magnetic trip only) 10 A
degree of protection NEMA rating design of the housing Circuit Breaker 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	indoors, usable on a general basis Motor circuit protector (magnetic trip only) 10 A
degree of protection NEMA rating design of the housing Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit	indoors, usable on a general basis Motor circuit protector (magnetic trip only) 10 A 30 100 A
degree of protection NEMA rating design of the housing Circuit Breaker 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	indoors, usable on a general basis Motor circuit protector (magnetic trip only) 10 A 30 100 A Vertical
degree of protection NEMA rating design of the housing Circuit Breaker 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	indoors, usable on a general basis Motor circuit protector (magnetic trip only) 10 A 30 100 A Vertical Surface mounting and installation
degree of protection NEMA rating design of the housing Circuit Breaker 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 for	indoors, usable on a general basis Motor circuit protector (magnetic trip only) 10 A 30 100 A Vertical Surface mounting and installation Box lug
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degree of protection NEMA rating design of the housing Circuit Breaker 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 for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible	indoors, usable on a general basis 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
degree of protection NEMA rating design of the housing Circuit Breaker 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 for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply	indoors, usable on a general basis 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
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design of the short-circuit trip Instantaneous trip circuit breaker maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V • at 600 V 25 kA certificate of suitability Instantaneous trip circuit breaker 100 kA 100 kA 25 kA		
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 for 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 maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V • at 480 V • at 600 V certificate of suitability NEMA ICS 2; UL 508; CSA 22.2, No.14	AWG cables for auxiliary contacts single or multi-stranded	
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 for 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 maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V • at 600 V certificate of suitability Screw-type terminals 7 10 lbf-in 2x (20 14 AWG) 75 °C CU Short-circuit current rating Instantaneous trip circuit breaker		75 °C
tightening torque [lbf-in] at overload relay for auxiliary contacts type of connectable conductor cross-sections at overload relay for 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 maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V • at 600 V certificate of suitability NEMA ICS 2; UL 508; CSA 22.2, No.14	material of the conductor at contactor for auxiliary contacts	CU
type of connectable conductor cross-sections at overload relay for 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 maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V • at 600 V certificate of suitability NEMA ICS 2; UL 508; CSA 22.2, No.14	,,	Screw-type terminals
for 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 CU Short-circuit current rating design of the short-circuit trip maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V • at 600 V certificate of suitability NEMA ICS 2; UL 508; CSA 22.2, No.14	tightening torque [lbf·in] at overload relay for auxiliary contacts	7 10 lbf-in
contacts maximum permissible material of the conductor at overload relay for auxiliary contacts CU Short-circuit current rating design of the short-circuit trip maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V • at 600 V certificate of suitability NEMA ICS 2; UL 508; CSA 22.2, No.14		2x (20 14 AWG)
design of the short-circuit trip Instantaneous trip circuit breaker maximum short-circuit current breaking capacity (Icu) at 240 V at 480 V at 600 V certificate of suitability Instantaneous trip circuit breaker 100 kA 100 kA 25 kA NEMA ICS 2; UL 508; CSA 22.2, No.14		75 °C
design of the short-circuit trip Instantaneous trip circuit breaker maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V • at 600 V 25 kA certificate of suitability Instantaneous trip circuit breaker 100 kA 100 kA 25 kA	material of the conductor at overload relay for auxiliary contacts	CU
maximum short-circuit current breaking capacity (Icu) • at 240 V • at 480 V • at 600 V certificate of suitability 100 kA 25 kA NEMA ICS 2; UL 508; CSA 22.2, No.14	Short-circuit current rating	
 at 240 V at 480 V at 600 V certificate of suitability 100 kA 25 kA NEMA ICS 2; UL 508; CSA 22.2, No.14 	design of the short-circuit trip	Instantaneous trip circuit breaker
● at 480 V 100 kA ■ at 600 V 25 kA certificate of suitability NEMA ICS 2; UL 508; CSA 22.2, No.14	maximum short-circuit current breaking capacity (Icu)	
at 600 V 25 kA certificate of suitability NEMA ICS 2; UL 508; CSA 22.2, No.14	● at 240 V	100 kA
certificate of suitability NEMA ICS 2; UL 508; CSA 22.2, No.14	● at 480 V	100 kA
•	● at 600 V	25 kA
Further information	certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14
	Further information	

Industrial Controls - Product Overview (Catalogs, Brochures,...)

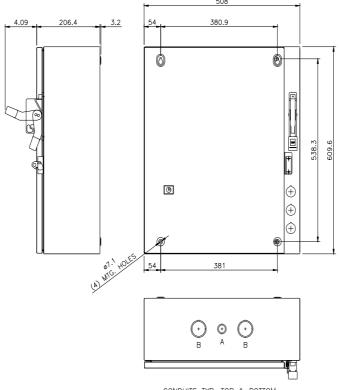
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:18CUC82BL

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

https://support.industry.siemens.com/cs/US/en/ps/US2:18CUC82B

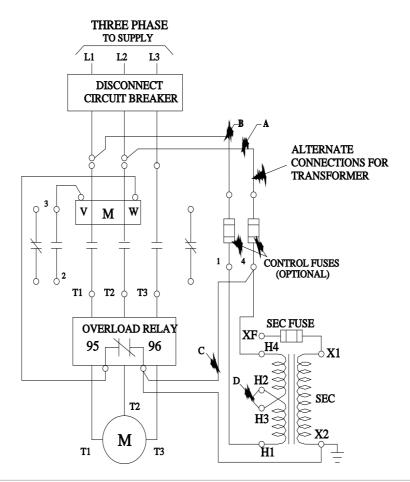
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:18CUC82BL&lang=en

Certificates/approvals
https://support.industry.siemens.com/cs/US/en/ps/US2:18CUC82BL/certificate



CONDUITS TYP. TOP & BOTTOM

LETTER	CONDUIT SIZE
Α	ø12.7 & ø19 CONDUIT
В	ø31.8 & ø38.1 CONDUIT



last modified: 1/25/2022 🖸