SIEMENS

Data sheet US2:18DUE92BE



Non-reversing motor starter, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 10-40A, Combination type, 30A circuit breaker, Enclosure NEMA type 1, Indoor general purpose use, Standard width 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	
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
 during operation 	-20 +40 °C
Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
• at 200/208 V rated value	7.5 hp
• at 220/230 V rated value	7.5 hp
• at 460/480 V rated value	10 hp
at 575/600 V rated value	0 hp
Contactor	
size of contactor	NEMA controller size 1
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	27 A
mechanical service life (operating cycles) of the main contacts typical	1000000
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 	550 V
at AC at 60 Hz rated value	575 600 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 coil	
percental drop-out voltage of magnet coil related to the input 50	0 %
voltage	
ON-delay time	9 29 ms
OFF-delay time 10	0 24 ms
Overload relay	
product function	
 overload protection Yes	es
• phase failure detection Ye	es
• asymmetry detection Ye	es
• ground fault detection	es
• test function Ye	es
external reset Ye	es
reset function M	anual, automatic and remote
trip class	LASS 5 / 10 / 20 (factory set) / 30
adjustable current response value current of the current-dependent overload release	0 40 A
make time with automatic start after power failure maximum 3	S
relative repeat accuracy 1	%
product feature protective coating on printed-circuit board Ye	es
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	A
contact rating of auxiliary contacts of overload relay according to UL 5A	A@600VAC (B600), 1A@250VDC (R300)
insulation voltage (Ui)	
• with single-phase operation at AC rated value 60	00 V
• with multi-phase operation at AC rated value 30	00 V
Enclosure	
degree of protection NEMA rating 1	
design of the housing in	doors, usable on a general basis
Circuit Breaker	
type of the motor protection M	lotor circuit protector (magnetic trip only)
·	O A
adjustable current response value current of instantaneous 80 short-circuit trip unit	0 270 A
Mounting/wiring	
mounting position Ve	ertical
fastening method Si	urface mounting and installation
type of electrical connection for supply voltage line-side Box	ox lug
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	x (10 AWG 1/0 AWG)
temperature of the conductor for supply maximum permissible 75	5 °C
material of the conductor for supply Al	L or CU
type of electrical connection for load-side outgoing feeder So	crew-type terminals
tightening torque [lbf-in] for load-side outgoing feeder 35	5 35 lbf·in
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded	x (14 2 AWG)
temperature of the conductor for load-side outgoing feeder maximum permissible	5°C
material of the conductor for load-side outgoing feeder Al	L or CU
type of electrical connection of magnet coil So	crew-type terminals
tightening torque [lbf·in] at magnet coil 5	12 lbf-in
type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded	x (16 12 AWG)
	5 °C
temperature of the conductor at magnet coil maximum 75 permissible	
	U
permissible material of the conductor at magnet coil Cl	U crew-type terminals
permissible material of the conductor at magnet coil type of electrical connection for auxiliary contacts So	

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 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,...)

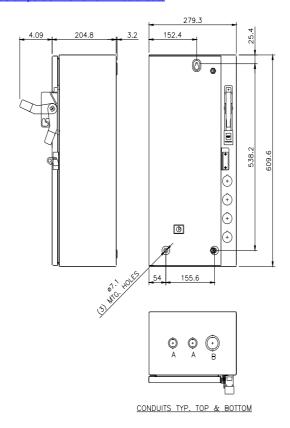
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:18DUE92BE

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

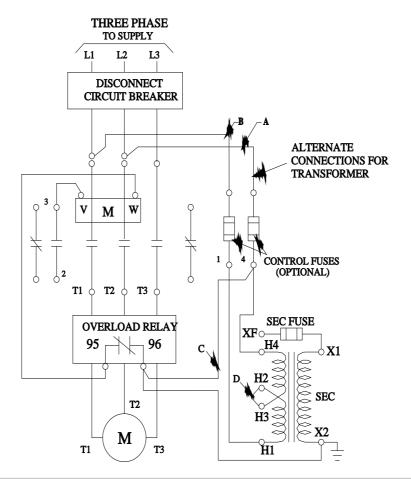
https://support.industry.siemens.com/cs/US/en/ps/US2:18DUE92B

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:18DUE92BE&lang=en

Certificates/approvals
https://support.industry.siemens.com/cs/US/en/ps/US2:18DUE92BE/certificate



CONDUIT SIZE Ø12.7 & Ø19 CONDUIT Ø25.4 & Ø31.8 CONDUIT



last modified: 1/25/2022 🖸