SIEMENS

Data sheet US2:18FUF92NF



Non-reversing motor starter, Size 2, Three phase full voltage, Solid-state overload relay, OLR amp range 13-52A, 110V 50Hz / 120V 60Hz coil, Combination type, 50A circuit breaker, Enclosure NEMA type 4/12, Water/dust tight for outdoors, 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	10 hp
• at 220/230 V rated value	15 hp
• at 460/480 V rated value	25 hp
• at 575/600 V rated value	25 hp
Contactor	
size of contactor	NEMA controller size 2
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	45 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	7
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 	110 V
at AC at 60 Hz rated value	120 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 voltage ON-delay time OFF-delay time OFF-delay time Overload relay product function overload protection ophase failure detection ophase failure detection option fault f	
Voltage ON-delay time OFF-delay time 10 24 ms Overload relay product function • overload protection • phase failure detection • asymmetry detection • ground fault detection • est function • external reset • external reset reset function trip class adjustable current response value current of the current-dependent overload release make time with automatic start after power failure maximum relative repeat accuracy product feature protective coating on printed-circuit board number of NC contacts of auxiliary contacts of overload relay • at AC at 600 V • at DC at 250 V • at DC at 250 V • with single-phase operation at AC rated value Enclosure degree of protection NEMA rating dustproof, waterproof & weatherproof circuit Broaker	
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degree of protection NEMA rating 4, 12 design of the housing dustproof, waterproof & weatherproof Circuit Breaker	
design of the housing dustproof, waterproof & weatherproof Circuit Breaker	
Circuit Breaker	
type of the motor protection Motor circuit protector (magnetic trip only)	
operational current of motor circuit breaker rated value 50 A	
adjustable current response value current of instantaneous short-circuit trip unit	
Mounting/wiring	
mounting position Vertical	
fastening method Surface mounting and installation	
type of electrical connection for supply voltage line-side Box lug	
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded 1x (10 AWG 1/0 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 Box lug	
tightening torque [lbf-in] for load-side outgoing feeder 45 45 lbf-in	
type of connectable conductor cross-sections for 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	
type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded 2x (16 12 AWG)	
temperature of the conductor at magnet coil maximum 75 °C 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 for 1x (12 AWG), 2x (16 14 AWG), 2x (18 16 AWG)	

AWG cables for auxiliary contacts single or multi-stranded	
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 for 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
maximum short-circuit current breaking capacity (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,...)

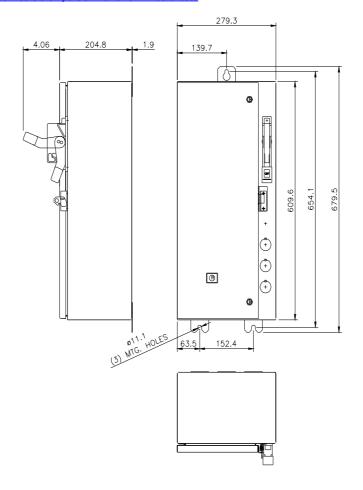
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:18FUF92NF

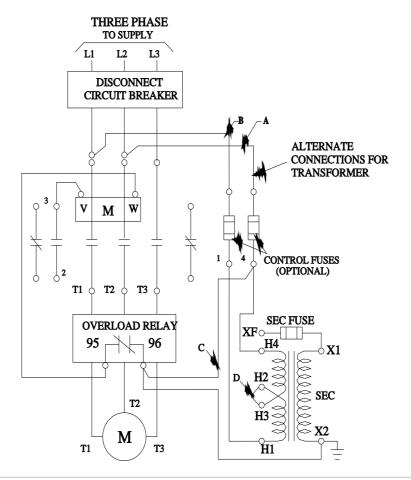
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:18FUF92NF

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:18FUF92NF&lang=en

Certificates/approvals
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