## **SIEMENS**

Data sheet US2:84FUF92BMF



Duplex starter w/ alternator, Size 2, Three phase full voltage, Solid-state overload relay, OLR amp range 13-52A, 110V 50Hz / 120V 60Hz coil, Combination type, Two 50A circuit breakers, Enclosure NEMA type 1, Indoor general purpose use

Figure similar

design of the product special product feature  ESP200 overload relay  Foneral technical data  weight [lb] Helght x Width x Depth [in] 56 × 29 × 10 in NA for enclosed products installation altitude [ft] at height above sea level maximum ambient temperature [FT] 4 during storage 4 during operation 4 +104 "F  during operation 4 +104 "F  during operation 4 +104 "C  country of origin USA  Hosspower ratings  yielded mechanical performance [hp] for 3-phase AC motor  at 200/208 V rated value 15 hp 1 at 250/230 V rated value 25 hp 25 hp 26 contactor size of contactor number of NC 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 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 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 VO contacts at contactor for auxiliary contacts number of VO contacts at contactor for auxiliary contacts number of VO contacts at contactor for auxiliary contacts number of Vo contacts at contactor for auxiliary contacts number of voltage of the control supply voltage control supply voltage  AC	product brand name	Class 84
weight [Ib] 70 lb Height x Width x Depth [in] 56 x 29 x 10 in touch protection against electrical shock NA for enclosed products installation altitude [ft] at height above sea level maximum ambient temperature ["F] during storage -22 +149 "F during storage -22 +149 "F during operation -4 +104 "F ambient temperature during storage -30 +65 °C during operation -20 +40 °C country of origin USA  Horsepower ratings  yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value 15 hp at 200/230 V rated value 25 hp at 460/480 V rated value 25 hp at 460/480 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 operational current at AC at 600 V rated value 45 A mechanical service life (switching cycles) of the main contacts by pical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts number of	design of the product	Duplex controller with two MCPs with alternator
weight [lb] 70 lb Helght x Width x Depth [in] 56 × 29 × 10 in touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature ["F] • during storage - 22 +149 "F ambient temperature • during operation - 4 +104 "F ambient temperature • during operation - 20 +65 "C country of origin USA  Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 220/208 V rated value 10 hp • at 220/230 V rated value 25 hp • at 460/480 V rated value 25 hp • at 575/600 V rated value 25 hp  Size of contactor number of NC contacts for main contacts 3 operating voltage for main current circuit at AC at 60 Hz maximum oner of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contacts for main mumber of NC contacts at contacts for auxiliary contacts number of NC contacts at contact for auxiliary contacts number of NC contacts at contact for auxiliary contacts number of NC contacts at contact for auxiliary contacts number of NC contacts at contact for auxiliary contacts number of NC contacts at contact for auxiliary contacts number of NC contacts at contact for auxiliary contacts number of NC contacts at contact for auxiliary contacts number of NC contacts at contact for auxiliary contacts number of NC contacts at contact for auxiliary contacts number of NC contacts at contact for auxiliary contacts number of NC contacts at contact for auxiliary contacts number of NC contacts at contact for auxiliary contacts number of NC contacts at contact or for auxiliary contacts number of NC contacts at contact or for auxiliary contacts number of NC contacts at contact or for auxiliary contacts number of NC contacts at contact or for auxiliary contacts number of NC contacts at contact or for auxiliary contacts number of NC contacts at contact or for auxiliary contacts number of NC contacts at contact or for auxiliary contact	special product feature	ESP200 overload relay
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 ambient temperature • during operation  ambient temperature • during operation  ambient temperature • during operation  country of origin  Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor  • at 200/208 V rated value • at 4200/230 V rated value • at 480/480 V rated value • at 480/480 V rated value • at 575/600 V rated value • at 585/600 V rated value • at 585/600 V rated value • at 585/600 V ra	General technical data	
touch protection against electrical shock installation altitude [ft] at height above sea level maximum ambient temperature [*Ft]  • during storage	weight [lb]	70 lb
installation altitude [ft] at height above sea level maximum ambient temperature [°F]  • during storage • during operation • during storage • during operation • during storage • during operation • during operation • during operation • 20 +65 °C • during operation • 20 +40 °C  country of origin  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  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  45 A 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 auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at c	Height x Width x Depth [in]	56 × 29 × 10 in
ambient temperature [*F]  • during storage • during operation  ambient temperature • during storage • during operation • during storage • during operation • 20 +65 °C • 20 +40 °C  Country of origin  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 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 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 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 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 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	touch protection against electrical shock	NA for enclosed products
<ul> <li>during storage</li> <li>during operation</li> <li>during operation</li> <li>during storage</li> <li>during operation</li> <li>during operation</li> <li>20 +65 °C</li> <li>during operation</li> <li>20 +40 °C</li> <li>country of origin</li> <li>USA</li> <li>Horsepower ratings</li> <li>yielded mechanical performance [hp] for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 200/208 V rated value</li> <li>15 hp</li> <li>at 260/203 V rated value</li> <li>25 hp</li> <li>at 460/480 V rated value</li> <li>25 hp</li> <li>at 575/600 V rated value</li> <li>25 hp</li> </ul> Contactor <ul> <li>size of contactor number of NO contacts for main contacts</li> <li>operating voltage for main current circuit at AC at 60 Hz maximum</li> <li>operating voltage for main current circuit at AC at 60 Hz maximum</li> <li>operating a service life (switching cycles) of the main contacts typical</li> </ul> Auxiliary contact <ul> <li>number of NO contacts at contactor for auxiliary contacts</li> <li>number of NC contacts at contactor for auxiliary contacts</li> <li>number of NC contacts at contactor for auxiliary contacts</li> <li>number of NO contacts at contactor for auxiliary contacts</li> <li>number of NO contacts at contactor for auxiliary contacts</li> <li>number of Not contacts at contactor for auxiliary contacts</li> <li>number of Not contacts at contactor for auxiliary contacts</li> <li>number of total auxiliary contacts maximum</li> <li>contact rating of auxiliary contacts of contactor according to UL</li> <li>Coil</li> <li>type of voltage of the control supply voltage</li> </ul>	installation altitude [ft] at height above sea level maximum	6560 ft
during operation     ambient temperature     during storage     during operation     country of origin     USA  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     at 575/600 V rated value     at 750/200 V rated value     at 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     defancial 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 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 total auxiliary contacts of contactor according to UL  Coil  type of voltage of the control supply voltage  AC	ambient temperature [°F]	
ambient temperature  • during storage  • during operation  country of origin  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  25 hp  • at 675/600 V rated value  25 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  mechanical service life (switching cycles) of the main contacts typical  Auxillary contact  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of total auxiliary contacts maximum  7  contact rating of auxiliary contacts of contactor according to UL  Coil  type of voltage of the control supply voltage  AC	<ul> <li>during storage</li> </ul>	-22 +149 °F
during storage     during operation     country of origin  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     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  are size of contacts of the main contacts of the main contacts witching cycles) of the main contacts the size of the size of the size of the size of contact of the size of the size of contact of contact of the size of contact of contact of contact of contact of the size of contact of	during operation	-4 +104 °F
• during operation     country of origin  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     isize of contactor     size of 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     appearational current at AC at 600 V rated	ambient temperature	
country of origin  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  25 hp • at 575/600 V rated value  25 hp  Contactor  size of 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 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 maximum  contact rating of auxiliary contacts of contactor according to UL  Coil  type of voltage of the control supply voltage  AC	<ul> <li>during storage</li> </ul>	-30 +65 °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 480/480 V rated value • at 575/600 V rated value 25 hp  • at 4575/600 V rated value 25 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 45 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 7 contact rating of auxiliary contacts of contactor according to UL  Coil  type of voltage of the control supply voltage AC	during operation	-20 +40 °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 460/480 V rated value • at 575/600 V rated value • 25 hp • at 575/600 V rated value  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  ### 45 A  ### 10000000  ### 10000000  ### 10000000  Auxiliary contact  number of NC contacts at contactor for auxiliary contacts  number of NC contacts at contactor for auxiliary contacts  number of NO contacts at contactor for auxiliary contacts  number of total auxiliary contacts maximum  7 contact rating of auxiliary contacts of contactor according  to UL  Coil  type of voltage of the control supply voltage  AC	country of origin	USA
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 4575/600 V rated value  25 hp  • at 575/600 V rated value  25 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  mechanical service life (switching cycles) of the main contacts yield  Auxiliary contact  number of NC contacts at contactor for auxiliary contacts  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  AC	Horsepower ratings	
<ul> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>25 hp</li> <li>at 575/600 V rated value</li> <li>25 hp</li> </ul> Contactor <ul> <li>size of contactor</li> <li>number of NO contacts for main contacts</li> <li>operating voltage for main current circuit at AC at 60 Hz maximum</li> <li>operational current at AC at 600 V rated value</li> <li>mechanical service life (switching cycles) of the main contacts typical</li> </ul> Auxiliary contact <ul> <li>number of NC contacts at contactor for auxiliary contacts</li> <li>number of NC contacts at contactor for auxiliary contacts</li> <li>number of total auxiliary contacts maximum</li> <li>contact rating of auxiliary contacts of contactor according to UL</li> </ul> Coil <ul> <li>type of voltage of the control supply voltage</li> </ul> AC <ul> <li>AC</li> </ul> AC <ul> <li>AC</li> </ul> AC <ul> <li>AC</li> </ul> AC <ul> <li>AC </li> </ul>		
<ul> <li>at 460/480 V rated value</li> <li>25 hp</li> <li>at 575/600 V rated value</li> <li>25 hp</li> </ul> Contactor <ul> <li>size of contactor</li> <li>number of NO contacts for main contacts</li> <li>operating voltage for main current circuit at AC at 60 Hz maximum</li> <li>operational current at AC at 600 V rated value</li> <li>operational current at AC at 600 V rated value</li> <li>45 A</li> <li>mechanical service life (switching cycles) of the main contacts typical</li> </ul> Auxiliary contact <ul> <li>number of NC contacts at contactor for auxiliary contacts</li> <li>number of NO contacts at contactor for auxiliary contacts</li> <li>number of total auxiliary contacts maximum</li> <li>contact rating of auxiliary contacts of contactor according to UI.</li> </ul> Coil <ul> <li>type of voltage of the control supply voltage</li> </ul> AC AC AC AC AC	• at 200/208 V rated value	10 hp
• at 575/600 V rated value  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  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 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  NEMA controller size 2  3  600 V  10000000  45 A  100000000  100000000  100000000  1000000	• at 220/230 V rated value	15 hp
size of contactor size of contactor  NEMA controller size 2  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 contactor for auxiliary contacts number of total auxiliary contacts maximum rontact rating of auxiliary contacts of contactor according to UL  Coil  type of voltage of the control supply voltage  NEMA controller size 2  NEMA controller size 2  1000 V  000 V  100000000  100000000  1000000000  1000000	<ul> <li>at 460/480 V rated value</li> </ul>	25 hp
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 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  NEMA controller size 2  3  600 V  600 V  100000000  100000000  100000000  1000000	• at 575/600 V rated value	25 hp
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  operational 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 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  3 600 V 600	Contactor	
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 contactor for auxiliary contacts number of total auxiliary contacts maximum  recontact rating of auxiliary contacts of contactor according to UL  Coil  type of voltage of the control supply voltage  600 V  600	size of contactor	NEMA controller size 2
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 contactor for auxiliary contacts number of total auxiliary contacts maximum 7 contact rating of auxiliary contacts of contactor according to UL  Coil type of voltage of the control supply voltage  45 A 10000000  10000000  100000000  10000000	number of NO contacts for main contacts	3
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 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  10000000  10000000  100000000  1000000		600 V
contacts typical  Auxiliary contact  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  AC	operational current at AC at 600 V rated value	45 A
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  0  10  10  10  10  10  10  10  10  10	, , ,	10000000
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  1  10A@600VAC (A600), 5A@600VDC (P600)  AC	Auxiliary contact	
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  7  10A@600VAC (A600), 5A@600VDC (P600)  AC	number of NC contacts at contactor for auxiliary contacts	0
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	number of NO contacts at contactor for auxiliary contacts	1
to UL  Coil type of voltage of the control supply voltage  AC	number of total auxiliary contacts maximum	7
type of voltage of the control supply voltage AC		10A@600VAC (A600), 5A@600VDC (P600)
	Coil	
control supply voltage	type of voltage of the control supply voltage	AC
	control supply voltage	

a at DC rated value	0 0 0
at DC rated value      at AC at 50 Hz rated value	0 0 V 110 110 V
at AC at 60 Hz rated value    halding newer at AC minimum	120 120 V 8.6 W
holding power at AC minimum	218 VA
apparent pick-up power of magnet coil at AC	25 VA
apparent holding power of magnet coil at AC operating range factor control supply voltage rated value	0.85 1.1
of magnet coil	0.65 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
<ul> <li>asymmetry detection</li> </ul>	Yes
<ul> <li>ground fault detection</li> </ul>	Yes
<ul><li>test function</li></ul>	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	13 52 A
tripping time at phase-loss 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)	
<ul> <li>with single-phase operation at AC rated value</li> </ul>	600 V
with multi-phase operation at AC rated value	300 V
Enclosure	
degree of protection NEMA rating of the enclosure	NEMA Type 1
design of the housing	indoors, usable on a general basis
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	180 600 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 connectable conductor cross-sections at line-side	1x (10 AWG 1/0 AWG)
at AWG cables single or multi-stranded temperature of the conductor for supply maximum	75 °C
permissible	AL or CII
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 at AWG cables for load-side outgoing feeder single or multi- stranded	1x (14 2 AWG)
to an anatom of the conductor for local side of the first for day	
temperature of the conductor for load-side outgoing feeder	75 °C

maximum permissible	
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 at AWG cables single or multi-stranded	2x (16 12 AWG)
temperature of the conductor at magnet coil maximum permissible	75 °C
material of the conductor at magnet coil	CU
type of electrical connection at contactor 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 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=US2:84FUF92BMF

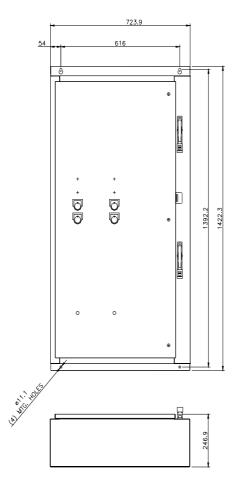
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/US/en/ps/US2:84FUF92BMF

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:84FUF92BMF&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:84FUF92BMF&lang=en</a>

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:84FUF92BMF/certificate



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