## SIEMENS

## Data sheet

## US2:14FUF32BH

Non-reversing motor starter, Size 2, Three phase full voltage, Solid-state overload relay, OLR amp range 13-52A, Non-combination type, Enclosure type 1, Indoor general purpose use, Standard width enclosure



Figure similar

product brand name	Class 14
design of the product	Full-voltage non-reversing motor starter
special product feature	ESP200 overload relay
General technical data	
weight [lb]	13 lb
Height x Width x Depth [in]	14 × 8 × 7 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	
<ul> <li>during storage</li> </ul>	-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	10 hp
<ul> <li>at 220/230 V rated value</li> </ul>	15 hp
• at 460/480 V rated value	25 hp
<ul> <li>at 575/600 V rated value</li> </ul>	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 (switching 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	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	

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at AC at 50 Hz rated value	380 440 V	
at AC at 60 Hz rated value	440 480 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 operating range factor control supply voltage rated value	25 VA 0.85 1.1	
of magnet coil		
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	
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	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	1	
relay 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	1A	
contact rating of auxiliary contacts of overload relay according to UL	5A@600VAC (B600), 1A@250VDC (R300)	
insulation voltage (Ui)		
	600 V	
with single-phase operation at AC rated value		
with multi-phase operation at AC rated value	300 V	
Enclosure		
degree of protection NEMA rating	1	
design of the housing	Indoor general purpose use	
Mounting/wiring		
mounting position	Vertical	
fastening method	Surface mounting and installation	
type of electrical connection for supply voltage line-side	Box lug	
tightening torque [lbf·in] for supply	45 45 lbf·in	
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded	1x(14 - 2 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 at 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	2 x (16 - 12 AWG)	
coil at AWG cables single or multi-stranded		

temperature of the conductor at magnet coil maximum permissible	75 °C
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 at AWG cables for auxiliary contacts single or multi- stranded	1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (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	2 x (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 fuse link for short-circuit protection of the main circuit required	10kA@600V (Class H or K); 100kA@600V (Class R or J)
design of the short-circuit trip	Thermal magnetic circuit breaker
breaking capacity maximum short-circuit current (lcu)	
• at 240 V	14 kA
• at 480 V	10 kA
• at 600 V	10 kA
certificate of suitability	NEMA ICS 2; UL 508; CSA 22.2, No.14
Further information	
	t?mlfb=US2:14FUF32BH FAQs,) IF32BH s, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlf Certificates/approvals	b=US2:14FUF32BH⟨=en

https://support.industry.siemens.com/cs/US/en/ps/US2:14FUF32BH/certificate

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