SIEMENS

Data sheet US2:14HUG82BJ



Non-reversing motor starter, Size 3, Three phase full voltage, Solid-state overload relay, OLR amp range 25-100A, 24VAC 50-60Hz coil, Non-combination type, Enclosure type 1, Indoor general purpose use, Extra-wide 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	25. 25. 5. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.
weight [lb]	32 lb
Height x Width x Depth [in]	20 × 12 × 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]	3000 H
during storage	-22 +149 °F
during operation	-4 +104 °F
ambient temperature	1
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	25 hp
• at 220/230 V rated value	30 hp
• at 460/480 V rated value	50 hp
• at 575/600 V rated value	50 hp
Contactor	
size of contactor	NEMA controller size 3
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	90 A
mechanical service life (operating cycles) of the main contacts typical	5000000
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 	24 V
• at AC at 60 Hz rated value	24 V
holding power at AC minimum	14 W

apparent plok-up power of magnet coil at AC apparential propers of magnet coil at AC apparential grange factor control supply voltage rated value of magnet coil percental drop-out voltage of magnet coil related to the input voltage CNI-delay time CPI-delay time APPARENTIAL STATES COVERS OF THE STATES C	apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil percental drop-out voltage of magnet coil related to the input voltage ON-delay time OFF-delay time Overload relay product function	26 VA 0.85 1.1 50 % 26 41 ms 14 19 ms Yes Yes Yes Yes Yes Yes Yes Yes Yes Y
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product function • overload protection • phase failure detection • phase failure detection • phase failure detection • phase failure detection • ground fault detection • ground fault detection • external reset • external reset • yes • external reset • 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 tripping time at phase-loss maximum 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 NC contacts of auxiliary contacts of overload relay 1 at AC at 600 V 1 at CC at 250 V 1 A contact rating of auxiliary contacts of overload relay according to UL insulation voltage (Ui) • with single-phase operation at AC rated value • with multi-phase operation at AC rated value • with multi-phas	product function	Yes Yes Yes Yes Yes Yes Manual, automatic and remote CLASS 5 / 10 / 20 (factory set) / 30
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operational current of auxiliary contacts of overload relay	number of NC contacts of auxiliary contacts of overload relay	1
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with single-phase operation at AC rated value with multi-phase operation at AC rated value 300 V Enclosure degree of protection NEMA rating design of the housing 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 tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply type of electrical connection for supply AL or CU type of electrical connection for load-side outgoing feeder Box lug 1x(14 - 2/0 AWG) AL or CU Box lug		5A@600VAC (B600), 1A@250VDC (R300)
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mounting position fastening method type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply type of electrical connection for load-side outgoing feeder AL or CU type of electrical connection for load-side outgoing feeder Vertical Vertical Surface mounting and installation 1x(14 - 2/0 AWG) 120 120 lbf-in 1x(14 - 2/0 AWG) AL or CU Box lug	design of the housing	Extra-wide
mounting position fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Box lug tightening torque [lbf-in] for supply 120 120 lbf-in type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder Box lug Box lug	<u> </u>	Indoor general purpose use
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type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder Box lug Box lug Box lug	mounting position	
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AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder Box lug		
material of the conductor for supply AL or CU type of electrical connection for load-side outgoing feeder Box lug	7.	1x(14 - 2/0 AWG)
type of electrical connection for load-side outgoing feeder Box lug	temperature of the conductor for supply maximum permissible	75 °C
	• • •	
tightening torque [lbf-in] for load-side outgoing feeder 120 120 lbf-in	type of electrical connection for load-side outgoing feeder	
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded	7.	1x(14 - 2/0 AWG)
temperature of the conductor for load-side outgoing feeder maximum permissible 75 °C		75 °C
material of the conductor for load-side outgoing feeder AL or CU	material of the conductor for load-side outgoing feeder	AL or CU
type of electrical connection of magnet coil screw-type terminals	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		2 x (16 - 12 AWG)
temperature of the conductor at magnet coil maximum permissible 75 °C		75 °C
material of the conductor at magnet coil	material of the conductor at magnet coil	CU
type of electrical connection for auxiliary contacts screw-type terminals	type of electrical connection for auxiliary contacts	screw-type terminals
tightening torque [lbf-in] at contactor for auxiliary contacts 10 15 lbf-in	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
maximum short-circuit current breaking capacity (Icu)	
• 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	

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=US2:14HUG82BJ

 ${\bf Service \& Support\ (Manuals,\ Certificates,\ Characteristics,\ FAQs,...)}$

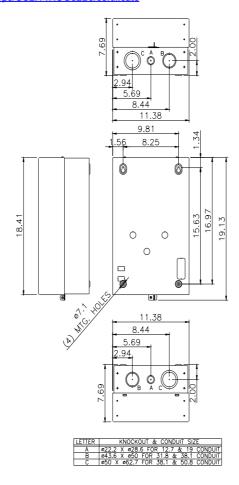
https://support.industry.siemens.com/cs/US/en/ps/US2:14HUG82BJ

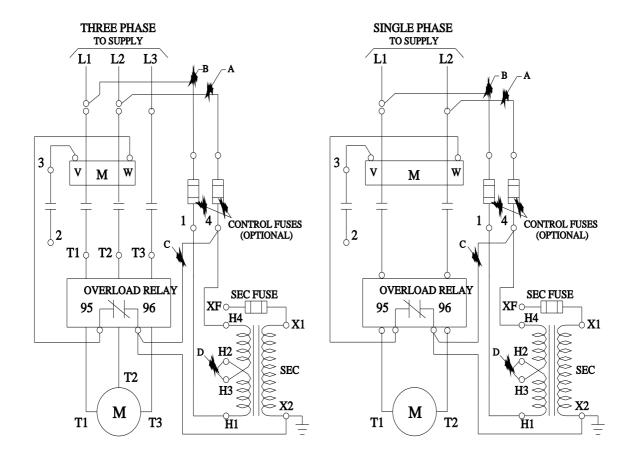
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14HUG82BJ&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14HUG82BJ/certificate





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