SIEMENS

Data sheet US2:14JG820C81



Non-reversing motor starter, Size 4, Three phase full voltage, Amb. compensate bimetal OLR, Contactor amp rating 135A, Non-combination type, Enclosure type 12, Dust/drip proof for indoors

design of the product sproduct sproduct special product special products are special products as a special product special product special products are special products as special products are special productsp		
Special product feature General technical data weight [Ib] Height x Width x Depth [In] 100	product brand name	Class 14 & 22
weight [b] 42 lb Height x Width x Depth [in] 29 x 23 x 9 in Itouch protection against electrical shock NA for enclosed products installation altitude [ft] at height above sea level maximum 6560 ft ambient temperature [Ft] • 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 [ftp] for 3-phase AC motor • at 200/208 V rated value 40 hp • at 460/480 V rated value 50 hp • at 460/480 V rated value 100 hp Contactor Size of contactor for main contacts of contacts for main contacts stypical mechanical service life (operating cycles) of the main contacts spical in a contact at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contact 2 number of NO contacts at contactor for auxiliary contact 2 number of NO contacts at contactor for auxiliary contact 2 numb	design of the product	Full-voltage non-reversing motor starter
weight [ib] Height x Width x Depth [in] 29 x 23 x 9 in touch protection against electrical shock Installation altitude [it] at height above sea level maximum Afor enclosed products Installation altitude [it] at height above sea level maximum Afor enclosed products Installation altitude [it] at height above sea level maximum Afore maximum Afore melosed products Installation altitude [it] at height above sea level maximum Afore melosed products Installation altitude [it] at height above sea level maximum Afore melosed products Installation altitude [it] at height above sea level maximum Afore melosed products Installation altitude [it] at height above sea level maximum Afore melosed products Installation altitude [it] at height above sea level maximum Afore melosed products Installation altitude [it] at height above sea level maximum Afore melosed products Installation altitude [it] at height above sea level maximum Afore melosed products Installation altitude [it] at height above sea level maximum Afore melosed products Installation altitude [it] at height above sea level maximum Afore melosed products Installation altitude [it] at height above sea level maximum Afore melosed products Installation altitude [it] at height above sea level maximum Afore melosed products Installation altitude [it] at height above sea level maximum Afore melosed products Installation altitude [it] at height above sea level maximum Afore melosed products Installation altitude [it] at height above sea level maximum Afore melosed products Installation altitude [it] at height above sea level maximum Afore melosed products Installation altitude [it] at height above sea level maximum Afore melosed products Installation altitude [it] at height above sea level maximum Afore melosed products at contactor for auxiliary contacts Installation altitude sea level sea contactor for auxiliary contacts Installation altitude sea contactor for auxiliary contacts Installation altitude sea level sea contactor for auxiliary contacts Installation altitude	special product feature	Dual voltage coil
Height x Wirdth x Depth [in] 129 × 23 × 9 in 15 touch protection against electrical shock Installation altitude [ft] at height above sea level maximum 15 ambient temperature [*F] 15 eturing storage 15 eturing storage 15 eturing storage 15 eturing operation 16 eturing operation 16 eturing operation 16 eturing operation 17 eturing operation 18 eturing operation	General technical data	
touch protection against electrical shock installation altitude (If) at height above sea level maximum ambient temperature [*F] • during storage • during operation • during operation • during storage • during storage • 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 250/230 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 575/600 V rated value • at 576/600 V rated value • at 576/600 V rated value • at 576/600 V rated value • at 600 V maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxillary 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 1 10A0@600VAC (A600), 5A@600VDC (P600) Coll type of voltage of the control supply voltage • at AC at 60 Hz rated value	weight [lb]	42 lb
installation altitude [ft] at height above sea level maximum ambient temperature [*F] • during storage • during operation administration of the interest of t	Height x Width x Depth [in]	29 × 23 × 9 in
ambient temperature [*F] • during storage • during operation ambient temperature • during storage • during operation ambient temperature • during storage • during operation • during operation • during operation • 20 +65 °C • 20 +40 °C country of origin USA Horsopower 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 • at 60 contactor size of contactor 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 135 A mechanical service life (operating 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 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contacts of onaticity contacts 1 number of NC contacts at contacts of ocotactor according to UL Coll type of voltage of the control supply voltage • at AC at 60 Hz rated value	touch protection against electrical shock	NA for enclosed products
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■ during operation ambient temperature ● during operation • 20 +40 °C country of origin USA Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 220/230 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 575/600 V rated value 100 hp Contactor size of contactor NEMA controller size 4 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 135 A mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 number of NO contacts at contactor for auxiliary contacts 1 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 Coil type of voltage of the control supply voltage • at AC at 60 Hz rated value 220 480 V holding power at AC minimum 22 W	ambient temperature [°F]	
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 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 at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value at 575/600 V rated value Tontactor 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 (operating 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 total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage at AC at 60 Hz rated value 220 480 V holding power at AC minimum 	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 4675/600 V rated value • at 575/600 V rated value • at 575/600 V rated value Toumber 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 135 A mechanical service life (operating 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 7 contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage • at AC at 60 Hz rated value AC control supply voltage • at AC at 60 Hz rated value 220 480 V holding power at AC minimum	 during storage 	-30 +65 °C
Vielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 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 Toumber of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz main contacts of mechanical service life (operating 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 total auxiliary contacts for auxiliary contacts number of total auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage • at AC at 60 Hz rated value 220 480 V holding power at AC minimum	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 660/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value Too 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 135 A mechanical service life (operating 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 1 number of total auxiliary contacts of contactor for auxiliary contacts 1 contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage • at AC at 60 Hz rated value 220 480 V holding power at AC minimum 22 W	country of origin	USA
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 bize of contactor size of contactor size of contactor number of NO contacts for main contacts aperating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value poperational current at AC at 600 V rated value aperating voltage for main current circuit at AC at 60 Hz and in the following power at AC at 600 V rated value number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of total auxiliary 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 at AC at 60 Hz rated value at AC at 60 Hz rated value 220 480 V holding power at AC minimum 24 W	Horsepower ratings	
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isize of contactor size of contactor	• at 220/230 V rated value	50 hp
Size of 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 (operating 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 at AC at 60 Hz rated value Possible AC Control supply voltage at AC minimum NEMA controller size 4 3 On AC Control supply voltage at AC at 60 Hz rated value 220 480 V holding power at AC minimum	• at 460/480 V rated value	100 hp
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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 (operating 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 at AC at 60 Hz rated value at AC at 60 Hz rated value 220 480 V holding power at AC minimum 22 W	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 (operating 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 Total auxiliary contacts of contactor according to UL type of voltage of the control supply voltage at AC at 60 Hz rated value AC control supply voltage at AC at 60 Hz rated value 220 480 V holding power at AC minimum	size of contactor	NEMA controller size 4
maximum operational current at AC at 600 V rated value 135 A mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts at contactor for auxiliary contacts number of total auxiliary 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 at AC at 60 Hz rated value 220 480 V holding power at AC minimum 135 A 5000000 5000000 104000000 105000000 106000000000000000000	number of NO contacts for main contacts	3
mechanical service life (operating 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 at AC at 60 Hz rated value 220 480 V holding power at AC minimum		600 V
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 type of voltage of the control supply voltage o at AC at 60 Hz rated value AC control supply voltage at AC at 60 Hz rated value 220 480 V holding power at AC minimum 22 W	operational current at AC at 600 V rated value	135 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 type of voltage of the control supply voltage o at AC at 60 Hz rated value holding power at AC minimum o number of NC contactor for auxiliary contacts 1 10A@600VAC (A600), 5A@600VDC (P600) AC control supply voltage o at AC at 60 Hz rated value 220 480 V holding power at AC minimum		5000000
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 type of voltage of the control supply voltage o at AC at 60 Hz rated value AC continum 220 480 V holding power at AC minimum	Auxiliary contact	
number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL type of voltage of the control supply voltage o at AC at 60 Hz rated value holding power at AC minimum 7 10A@600VAC (A600), 5A@600VDC (P600) AC 220 480 V 22 W	number of NC contacts at contactor for auxiliary contacts	0
contact rating of auxiliary contacts of contactor according to UL Coil type of voltage of the control supply voltage • at AC at 60 Hz rated value holding power at AC minimum AC 10A@600VAC (A600), 5A@600VDC (P600) AC 220 480 V 22 W	number of NO contacts at contactor for auxiliary contacts	1
type of voltage of the control supply voltage control supply voltage at AC at 60 Hz rated value 220 480 V holding power at AC minimum 22 W	number of total auxiliary contacts maximum	7
type of voltage of the control supply voltage control supply voltage at AC at 60 Hz rated value 220 480 V holding power at AC minimum 22 W	contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)
control supply voltage • at AC at 60 Hz rated value holding power at AC minimum 220 480 V 222 W	Coil	
at AC at 60 Hz rated value 220 480 V holding power at AC minimum 22 W	type of voltage of the control supply voltage	AC
holding power at AC minimum 22 W	control supply voltage	
	at AC at 60 Hz rated value	220 480 V
apparent pick-up power of magnet coil at AC 510 VA	holding power at AC minimum	22 W
	apparent pick-up power of magnet coil at AC	510 VA

apparent holding power of magnet coil at AC	51 VA
operating range factor control supply voltage rated value of magnet coil	0.85 1.1
percental drop-out voltage of magnet coil related to the input voltage	50 %
ON-delay time	18 34 ms
OFF-delay time	10 12 ms
Overload relay	
product function	
overload protection	Yes
• test function	Yes
external reset	Yes
reset function	Manual and automatic
adjustment range of thermal overload trip unit	0.85 1.15
number of NC contacts of auxiliary contacts of overload relay	3
number of NO contacts of auxiliary contacts of overload relay	0
operational current of auxiliary contacts of overload relay	
• at AC at 600 V	5 A
• at DC at 250 V	5 A
contact rating of auxiliary contacts of overload relay according to	5A@600VAC (B600), 5A@250VDC (P300)
UL	
Enclosure	
degree of protection NEMA rating	12
design of the housing	Extra-wide
design of the housing	dustproof and drip-proof for indoor 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	200 200 lbf·in
temperature of the conductor for supply maximum permissible	75 °C
material of the conductor for supply	CU
type of electrical connection for load-side outgoing feeder	Screw-type terminals
tightening torque [lbf-in] for load-side outgoing feeder	35 50 lbf-in
type of electrical connection of magnet coil	Screw-type terminals 5 12 lbf-in
tightening torque [lbf-in] at magnet coil	
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 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	5 12 lbf-in
type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi-stranded	2x (16 12 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 (lcu)	
• at 240 V	10 kA
• at 480 V	10 kA
• at 600 V	10 kA

Industrial Controls - Product Overview (Catalogs, Brochures,...)

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

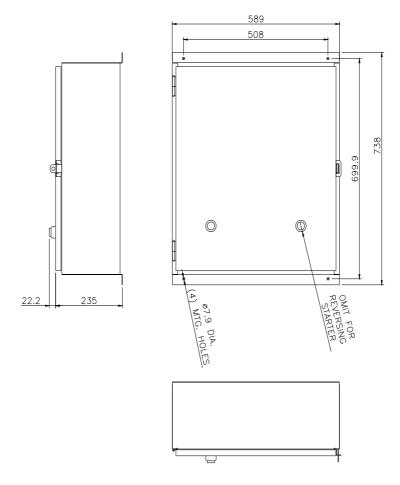
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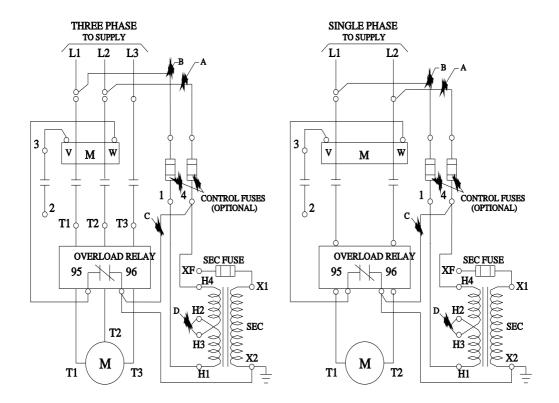
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Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14JG820C81/certificate





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