SIEMENS

Data sheet

product brand name

3RE4122-3AA11-4EF6

STARTER, 3RE41223AA114EY0, WITH MODS



product designation special product feature Hand-Off-Auto Selector Switch General technical data weight [tb] Height x Width x Depth [in] 11 x 7 x 5 in touch protection against electrical shock Installation altitude [ft] at height above sea level maximum ambient temperature [Ft] during operation -4 +104 °F ambient temperature [Ft] during operation -4 +104 °F ambient temperature during storage -30 +48 °C ambient temperature during operation -20 +40 °C country of origin Germany Power and control electronics Tumber of poles for main current circuit 3 type of voltage of the control supply voltage -1 at Ca 150 Hz rated value -1 at Ca 160 Hz rated value -1 at Ca 160 Hz rated value -1 at Ca 160 Hz rated value -1 at 200/208 V rated value -1 at 200/208 V rated value -1 at 200/208 V rated value -1 at 575/600 V rated value -1 at 670 Contacts for main contacts -1 operating voltage at AC-3 rated value maximum -1 operating voltage of rauliiary contacts -1 rumber of NC contacts for auxiliary contacts -1 rumber	product brand name	Siemens
weight [b] 8 lb Height x Width x Depth [in] 11 x 7 x 5 in touch protection against electrical shock NA for enclosed products installation altitude [ft] at height above sea level maximum 6 560 ft ambient temperature [FF] during operation 4 +104 "F ambient temperature [FF] during operation 4 +104 "F ambient temperature during storage 30 +65 "C ambient temperature during storage 30 +65 "C ambient temperature during operation 20 +40 "C country of origin Germany Power and control electronics number of poles for main current circuit 3 stype of voltage of the control supply voltage e1 at AC at 50 Hz rated value 24 V e1 at AC at 60 Hz rated value 24 V disconnector functionality yielded mechanical performance [hp] for 3-phase AC motor e1 z200/208 V rated value 2 hp e1 z200/208 V rated value 3 hp e1 z200/208 V rated value 5 hp e1 z300/208 V rated value 7,5 hp Contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operating voltage of main current circuit at AC at 60 Hz maximum 600 V mechanical service life (operating cycles) of the main contacts ypical number of NC contacts for auxiliary contacts 1 number of N	product designation	Non-reversing motor starter
weight [ib] Height x Width x Depth [in] 11 x 7 x 5 in 11 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1	special product feature	Hand-Off-Auto Selector Switch
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 ambient temperature [*F] during storage ambient temperature during operation -20 +40 °C country of origin Power and control electronics number of poles for main current circuit 3 type of voltage of the control supply voltage at AC at 50 Hz rated value at AC at 50 Hz rated value at AC at 50 Hz rated value 4 V disconnector functionality vigleded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value at 600/480 V rated value at 600/480 V rated value at 575/600 V rated value at 575/600 V rated value at 575/600 V rated value for an at 575/600 V rated value at 575/600 V rated value at 600 V maximum operating voltage at AC-3 rated value maximum mechanical service life (operating cycles) of the main contacts typical number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 1 number of ND contacts for auxiliary contacts 1 number of ND contacts for auxiliary contacts 1 number of ND contacts for auxiliary contacts 1 number of NC power of magnet coil at AC 67 VA apparent holding power of magnet coil at AC 65 VA	General technical data	
touch protection against electrical shock installation altitude (II) at height above sea level maximum ambient temperature [*F] during storage ambient temperature [*F] during operation 4	weight [lb]	8 lb
installation altitude [ft] at height above sea level maximum ambient temperature [*F] during storage ambient temperature [*F] during operation ambient temperature during storage ambient temperature during storage ambient temperature during operation -20 +40 °C country of origin Germany Power and control electronics number of poles for main current circuit type of voltage of the control supply voltage at AC at 50 Hz rated value at AC at 60 Hz rated value at AC at 60 Hz rated value at 200/208 V rated value at 200/208 V rated value at 200/208 V rated value at 3 hp at 3 type of voltage of voltage of voltage stated value at 200/208 V rated value at 200/208 V rated value but 3 hp at 3 type of voltage of voltage of voltage of voltage of voltage of voltage at 3 type of voltage of volt	Height x Width x Depth [in]	11 × 7 × 5 in
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ambient temperature ("F) during operation ambient temperature during storage ambient temperature during storage ambient temperature during operation country of origin Power and control electronics number of poles for main current circuit 3 type of voltage of the control supply voltage • at AC at 50 Hz rated value • at AC at 50 Hz rated value • at AC at 50 Hz rated value • at AC at 60 Hz rated value • at AC at 50 Hz rated value • at 200/208 V rated value • at 200/208 V rated value • at 480/480 V rated value • at 575/500 V rated value • at 575/500 V rated value • at 575/500 V rated value • at 600 V more than of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operating voltage at AC-3 rated value maximum operating voltage of the contacts for auxiliary contacts number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 2 1 1 10A@600V(A600), 2.5A@600V(Q600) Coil apparent holding power of magnet coil at AC 6 7 7 8 6 7 7 8 7 8 7 8 8 8 8 8 8 8 8 8	installation altitude [ft] at height above sea level maximum	6 560 ft
ambient temperature during storage ambient temperature during operation country of origin Power and control electronics number of poles for main current circuit 3 type of voltage of the control supply voltage at AC at 50 Hz rated value at AC at 60 Hz rated value at AC at 60 Hz rated value 4 t V disconnector functionality yielded mechanical performance [hp] for 3-phase AC motor at 460/480 V rated value 5 hp at 460/480 V rated value 5 hp at 575/600 V rated value 7.5 hp Contactor number of NO contacts for main current circuit at AC at 60 Hz maximum operating voltage for main current circuit at AC at 60 Hz maximum operating voltage for main current circuit at AC at 60 Hz number of NC contacts for act	ambient temperature [°F] during storage	-22 +149 °F
ambient temperature during operation -20 +40 °C country of origin Germany Power and control electronics number of poles for main current circuit 3 type of voltage of the control supply voltage AC control supply voltage • at AC at 50 Hz rated value 24 V disconnector functionality No yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value 2 the • at 460/480 V rated value 3 hp • at 460/480 V rated value 5 hp • at 575/600 V rated value 5 hp • at 575/600 V rated value 7.5 hp Contactor number of NO contacts for main contacts operating voltage at AC-3 rated value maximum 600 V mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts 1 number of Iotal auxiliary contacts according to UL Coil apparent holding power of magnet coil at AC 67 VA apparent holding power of magnet coil at AC 67 VA apparent holding power of magnet coil at AC 65 VA	ambient temperature [°F] during operation	-4 +104 °F
country of origin Germany Power and control electronics number of poles for main current circuit 3 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 disconnector functionality No yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value 2 hp • at 220/230 V rated value 3 hp • at 480/480 V rated value 5 hp • at 457/600 V rated value 5 hp • at 575/600 V rated value 7.5 hp Contactor number of NO contacts for main contacts 3 operating voltage for main current circuit at AC at 60 Hz maximum operating voltage at AC-3 rated value maximum 600 V mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of total auxiliary contacts maximum 8 contact rating of auxiliary contacts maximum 8 contact rating of auxiliary contacts of contactor according to UL Coil apparent holding power of magnet coil at AC 65 VA apparent holding power of magnet coil at AC 65 VA	ambient temperature during storage	-30 +65 °C
number of poles for main current circuit 3 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 disconnector functionality No yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value 2 hp • at 220/230 V rated value 3 hp • at 460/480 V rated value 5 hp • at 460/480 V rated value 5 hp • at 75/600 V rated value 5 hp • at 75/600 V rated value 6 hp • at 75/600 V rated value 7.5 hp Contactor number of NO contacts for main contacts 3 operating voltage for main current circuit at AC at 60 Hz maximum 600 V mechanical service life (operating cycles) of the main contacts typical Auxiliary contacts or auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 1 number of NO contacts for auxiliary contacts 1 1 number of NO contacts for auxiliary contacts 1 1 number of total auxiliary contacts maximum 8 contact traing of auxiliary contacts maximum 8 contact traing of auxiliary contacts maximum 8 contact traing of auxiliary contacts of contactor according to UL Coil apparent holding power of magnet coil at AC 67 VA apparent holding power of magnet coil at AC 65 VA	ambient temperature during operation	-20 +40 °C
number of poles for main current circuit type of voltage of the control supply voltage • at AC at 50 Hz rated value • at AC at 60 Hz rated value • at Cantrol supply voltage • at AC at 60 Hz rated value • at AC at 60 Hz rated value • at 200/208 V rated value • at 200/208 V rated value • at 220/230 V rated value • at 260/480 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 475/600 V rated value • at 575/600 V rated value operating voltage for main current circuit at AC at 60 Hz maximum operating voltage at AC-3 rated value maximum mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of total auxiliary contacts 1 number of total auxiliary contacts maximum 8 contact rating of auxiliary contacts of contactor according to UL coil apparent holding power of magnet coil at AC 67 VA apparent holding power of magnet coil at AC 6.5 VA	country of origin	Germany
type of voltage of the control supply voltage • at AC at 50 Hz rated value • at AC at 60 Hz rated value • at AC at 60 Hz rated value (disconnector functionality yielded 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 660/480 V rated value • at 675/600 V rated value • at 575/600 V rated value 7.5 hp Contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operating voltage at AC-3 rated value maximum operating voltage at AC-3 rated value maximum operating voltage for main current circuit at AC at 60 Hz maximum operating voltage for main current circuit at AC at 60 Hz maximum operating voltage for main current circuit at AC at 60 Hz maximum operating voltage at AC-3 rated value maximum fo00 V mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 10A@600V(A600), 2.5A@600V(Q600) Coil apparent pick-up power of magnet coil at AC 67 VA apparent holding power of magnet coil at AC 6.5 VA	Power and control electronics	
control supply voltage at AC at 50 Hz rated value 24 V at AC at 60 Hz rated value 24 V disconnector functionality yielded 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 5 hp at 575/600 V rated value 7.5 hp Contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operating voltage at AC-3 rated value maximum mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of total auxiliary contacts maximum 8 contact rating of auxiliary contacts of contactor according to UL Coil apparent holding power of magnet coil at AC 65 VA	number of poles for main current circuit	3
at AC at 50 Hz rated value at AC at 60 Hz rated value disconnector functionality 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 rumber of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operating voltage at AC-3 rated value maximum mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NO contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of total auxiliary contacts of contactor according to UL Coil apparent pick-up power of magnet coil at AC 67 VA apparent holding power of magnet coil at AC 6.5 VA	type of voltage of the control supply voltage	AC
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disconnector functionality 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 To hot actor number of NO contacts for main contacts yipical Auxiliary contact number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of total auxiliary contacts maximum 8 contact rating of auxiliary contacts of contactor according to UL Coil apparent holding power of magnet coil at AC 65 VA 65 VA	 at AC at 50 Hz rated value 	24 V
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 Total total total total value Total total total value Total total total value Total total total value Total total value Total total value value Total total value value Total total value value value Total total value maximum Total total value maximum Total total value maximum Total total value v	at AC at 60 Hz rated value	24 V
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otatactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operating voltage at AC-3 rated value maximum mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC 65 VA	• at 220/230 V rated value	3 hp
Contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operating voltage at AC-3 rated value maximum mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC 600 V 600 V 30 000 000 10 1	• at 460/480 V rated value	5 hp
number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operating voltage at AC-3 rated value maximum mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of total auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC 6.5 VA	• at 575/600 V rated value	7.5 hp
operating voltage for main current circuit at AC at 60 Hz maximum operating voltage at AC-3 rated value maximum mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Coil apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC apparent holding power of magnet coil at AC 600 V 30 000 000 1	Contactor	
operating voltage at AC-3 rated value maximum operating voltage at AC-3 rated value maximum mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum soundact rating of auxiliary contacts of contactor according to UL Coil apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC 65 VA	number of NO contacts for main contacts	3
mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC 6.5 VA		600 V
typical Auxiliary contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL 10A@600V(A600), 2.5A@600V(Q600) Coil apparent pick-up power of magnet coil at AC 67 VA apparent holding power of magnet coil at AC 6.5 VA	operating voltage at AC-3 rated value maximum	600 V
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL 10A@600V(A600), 2.5A@600V(Q600) Coil apparent pick-up power of magnet coil at AC 67 VA apparent holding power of magnet coil at AC 6.5 VA		30 000 000
number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC for VA 6.5 VA	Auxiliary contact	
number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL 10A@600V(A600), 2.5A@600V(Q600) Coil apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC 6.5 VA	number of NC contacts for auxiliary contacts	1
contact rating of auxiliary contacts of contactor according to UL 10A@600V(A600), 2.5A@600V(Q600) Coil apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC 6.5 VA	number of NO contacts for auxiliary contacts	1
apparent pick-up power of magnet coil at AC 67 VA apparent holding power of magnet coil at AC 6.5 VA	number of total auxiliary contacts maximum	8
apparent pick-up power of magnet coil at AC 67 VA apparent holding power of magnet coil at AC 6.5 VA	contact rating of auxiliary contacts of contactor according to UL	10A@600V(A600), 2.5A@600V(Q600)
apparent holding power of magnet coil at AC 6.5 VA	Coil	
	apparent pick-up power of magnet coil at AC	67 VA
operating range factor control supply voltage rated value of 0.8 1.1	apparent holding power of magnet coil at AC	6.5 VA
	operating range factor control supply voltage rated value of	0.8 1.1

Siemens

magnet coil	
ON-delay time	9 38 ms
OFF-delay time	4 16 ms
Overload relay	
product function	V
overload protection	Yes
• test function	Yes
external reset	Yes
reset function	Manual, automatic and remote (with optional accessory) 22 32
adjustment range of thermal overload trip unit number of NC contacts of auxiliary contacts of overload relay	1
number of NO contacts of auxiliary contacts of overload relay	1
contact rating of auxiliary contacts of overload relay	5A@600VAC (B600), 1A@250VDC (R300)
UL	5. (@55547.10 (25555), 17. (@2554250 (1.6555)
Enclosure	
degree of protection NEMA rating of the enclosure	NEMA 1 standard size enclosure
design of the housing	indoors, usable on a general basis
Mounting/wiring	
mounting position	vertical
fastening method	Surface mounting and installation
type of electrical connection for supply voltage line-side	Screw-type terminals
tightening torque [lbf·in] for supply	18 21 lbf-in
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	2x (16 12), 2x (14 8)
temperature of the conductor for supply maximum permissible	60 °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	18 21 lbf-in
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded	2x (16 12), 2x (14 8)
temperature of the conductor for load-side outgoing feeder maximum permissible	60 °C
material of the conductor for load-side outgoing feeder	CU
type of electrical connection of magnet coil	Screw-type terminals
tightening torque [lbf·in] at magnet coil	7 10 lbf-in
type of connectable conductor cross-sections of magnet coil for AWG cables single or multi-stranded	2x (16 12), 2x (14 8)
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	7 10 lbf·in
type of connectable conductor cross-sections at contactor for AWG cables for auxiliary contacts single or multi-stranded	2x (20 16), 2x (18 14)
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 16), 2x (18 14)
temperature of the conductor at overload relay for auxiliary contacts maximum permissible	70 °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	Class J
design of the short-circuit trip	Thermal magnetic circuit breaker
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	5 kA
• at 480 V	5 kA
• at 600 V	5 kA
certificate of suitability	UL 60947-4-1

Further information

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

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

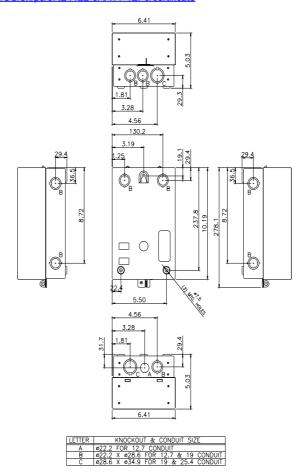
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Certificates/approvals

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