SIEMENS

Data sheet

STARTER, 3RE41224CA354QY0, WITH MODS



product brand name Siemens product designation Non-reversing motor starter special product feature Hand-Off-Auto Selector Switch General technical data weight [tb] 15 b Height x Witch x Depth [in] 12 × 10 × 6 in Nuch protection against electrical shock NA for enclosed products installation altitude [ft] at height above sea level maximum 6 560 ft country of origin Germany Power and control electronics number of poles for main current circuit 3 Itype of voltage of the control supply voltage AC control supply voltage 4 AC 3 to 3 Hz rated value 110 V at AC at 50 Hz rated value 120 V disconnector functionality No yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value 3 hp at 420/208 V rated value 3 hp at 420/208 V rated value 3 hp at 4575/600 V rated value 10 hp Contactor number of NC contacts for main contacts 3 operating voltage at AC-3 rated value maximum 600 V mechanical service life (operating cycles) of the main contacts ypical Auxiliary contact number of NC contacts for auxiliary contacts 1 number of NC contac		
special product feature Hand-Off-Auto Selector Switch General tochnical dats weight [Ib] 15 b Height x Width x Depth [in] 12 × 10 × 6 in Nouch protection against electrical shock NA for enclosed products Installation altitude [If] at height above sea level maximum 6 560 ft country of origin Germany Power and control electronics number of poles for main current circuit 3 yepe of votage of the control supply voltage AC control supply voltage 10 × 110 V	product brand name	Siemens
weight [lb] 15 lb 16 lc 17 lc 18 lb 16 lc 18 lb 16 lc 18 lc	product designation	Non-reversing motor starter
weight [ib] 15 ib Height x Width x Depth [in] 12 x 10 x 6 in touch protection against electrical shock NA for enclosed products installation altitude [ft] at height above sea level maximum 6 560 ft 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 4 AC control supply voltage 5 AC control supply voltage 6 AC control supply voltage 7 AC disconnector functionality 8 AC disconnector functionality 9 AC yielded mechanical performance [ftp] for 3-phase AC motor 6 at 200/208 V rated value 3 Ap	special product feature	Hand-Off-Auto Selector Switch
Height x Width x Depth [in] 12 × 10 × 6 in NA for enclosed products installation altitude [ft] at height above sea level maximum 6560 ft country of origin Germany Power and control electronics number of poles for main current circuit 3	General technical data	
touch protection against electrical shock installation altitude [ft] at height above sea level maximum country of origin Germany Power and control electronics number of poles for main current circuit 3 type of voltage of the control supply voltage out of voltage of the control supply voltage at AC at 50 Hz rated value 110 V at AC at 50 Hz rated value 120 V disconnector functionality No yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value 3 hp at 200/208 V rated value 3 hp at 200/208 V rated value 3 hp at 200/208 V rated value 7 5 hp by at 575/600 V rated value 10 hp Contactor number of NC contacts for main contacts 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 1 1 0 10 00 00 00 00 Cott	weight [lb]	15 lb
installation altitude [ft] at height above sea level maximum 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 110 V at AC at 50 Hz rated value 120 V disconnector functionality yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value 3 hp at 200/208 V rated value 3 hp at 460/480 V rated value 3 hp at 460/480 V rated value 7.5 hp be at 576/600 V rated value AC 3 rated value AC 3 representative functionality portation of the control supply voltage Control supply voltage at AC 3 rated value A to 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 cont	Height x Width x Depth [in]	12 × 10 × 6 in
Country of origin Power and control electronics number of poles for main current circuit yipe 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 420/208 V rated value • at 480/480 V rated value • at 480/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 675/600 V rated value • at 757/600 V rated value • at 75 hp • at	touch protection against electrical shock	NA for enclosed products
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 200/208 V rated value • at 220/230 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 4575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 600 V are value •	installation altitude [ft] at height above sea level maximum	6 560 ft
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 50 Hz rated value 110 V at AC at 60 Hz rated value 120 V disconnector functionality yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value 3 hp at 220/230 V rated value 3 hp at 460/480 V rated value 3 hp at 575/600 V rated value 7.5 hp at 575/600 V rated value 3 hp for 3-phase AC motor number of NO contacts for main contacts operating voltage at AC-3 rated value maximum mechanical service life (operating cycles) of the main contacts pyical Auxiliary contact number of NC contacts for auxiliary contacts number of NO 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 coll apparent pick-up power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil 0.8 1.1 magnet coil ON-delay time 9 38 ms Overload relay	country of origin	Germany
type of voltage of the control supply voltage control supply voltage • at AC at 50 Hz rated value 110 V • at AC at 60 Hz rated value 120 V disconnector functionality No 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 675/600 V 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 1 number of NC contacts for auxiliary contacts 1 1 number of total auxiliary contacts of contactor according to UL Coil apparent pick-up power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil one rate for VA apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time OF-delay time Overload relay	Power and control electronics	
control supply voltage • at AC at 50 Hz rated value • at AC at 60 Hz rated value 120 V disconnector functionality velded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value 3 hp • at 220/230 V rated value 3 hp • at 460/480 V rated value • at 575/600 V rated value 10 hp Contactor number of NO contacts for main contacts 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 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 pick-up power of magnet coil at AC apparent holding power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time OFF-delay time OFF-delay time Overload relay	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 200/208 V rated value at 200/230 V rated value at 460/480 V rated value at 460/480 V rated value at 460/480 V rated value at 575/600 V rated value to his perating voltage at AC-3 rated value maximum mechanical service life (operating cycles) of the main contacts typical number of NO contacts for auxiliary contacts number of total auxiliary contacts for auxiliary contacts number of total fuxiliary contacts of contactor according to UL Coil apparent pick-up power of magnet coil at AC apparent pick-up power of magnet coil at AC apparent pick-up power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time OFF-delay time OFF-delay time Overload relay	type of voltage of the control supply voltage	AC
at AC at 60 Hz rated value disconnector functionality yielded mechanical performance [hp] for 3-phase AC motor at 220/2208 V rated value at 220/230 V rated value at 420/480 V rated value at 460/480 V rated value at 575/600 V rated value to hp at 575/600 V rated value at 575/600 V rated value but at 575/600 V rated value to hp Contactor number of NO contacts for main contacts soperating 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 NC contacts for auxiliary contacts 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 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 operating range factor control supply voltage rated value of magnet coil ON-delay time OF-delay time OF-delay time Overload relay	control supply voltage	
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 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value To hp Contactor number of NO contacts for main contacts 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 10 000 000 Auxiliary contact 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 maximum 8 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 operating range factor control supply voltage rated value of magnet coil ON-delay time 9 38 ms OFF-delay time 0 4 16 ms Overload relay	 at AC at 50 Hz rated value 	110 V
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value 3 hp at 220/230 V rated value 3 hp at 480/480 V rated value 7.5 hp at 575/600 V rated value 10 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 Auxillary contact number of NO contacts for auxiliary contacts 10 000 000 Auxillary contact 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 pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time 9 38 ms OFF-delay time 4 16 ms Overload relay	at AC at 60 Hz rated value	120 V
at 220/208 V rated value at 220/230 V rated value at 460/480 V rated value at 460/480 V rated value at 450/480 V rated value at 575/600 V rated value maximum at 500 V at 500	disconnector functionality	No
 at 220/230 V rated value at 460/480 V rated value 7.5 hp at 575/600 V rated value 10 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 humber of NC contacts for auxiliary contacts 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 67 VA apparent pick-up power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time 9 38 ms OFF-delay time 9 38 ms OVerload relay	yielded mechanical performance [hp] for 3-phase AC motor	
 at 460/480 V rated value 10 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 number of NO contacts for auxiliary contacts number of total auxiliary contacts araximum contact rating of auxiliary contacts of contactor according to UL Coil apparent pick-up power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time 0.8 1.1 overload relay 	• at 200/208 V rated value	3 hp
• at 575/600 V rated value 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 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 pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time OFF-delay time Overload relay	• at 220/230 V rated value	3 hp
number of NO contacts for main contacts 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 1 number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Auxiliary contacts of contacts of contactor according to UL Auxiliary contacts of contacts of contactor according to UL Auxiliary contacts Auxiliary contact	• at 460/480 V rated value	7.5 hp
number of NO contacts for main contacts 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 1 number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL Auxiliary contacts of contacts of contactor according to UL Ooli apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time OF-delay time Overload relay	• at 575/600 V rated value	10 hp
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 operating range factor control supply voltage rated value of magnet coil ON-delay time Overload relay 10 000 000 10	Contactor	
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 Auxiliary contacts maximum 8 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 operating range factor control supply voltage rated value of magnet coil ON-delay time 9 38 ms OFF-delay time 4 16 ms Overload relay	number of NO contacts for main contacts	3
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 operating range factor control supply voltage rated value of magnet coil ON-delay time OFF-delay time Overload relay	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 apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time 9 38 ms OFF-delay time 4 16 ms Overload relay		10 000 000
number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL 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 operating range factor control supply voltage rated value of magnet coil ON-delay time 9 38 ms OFF-delay time 4 16 ms Overload relay	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 operating range factor control supply voltage rated value of magnet coil ON-delay time 9 38 ms OFF-delay time 4 16 ms Overload relay	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) 2.5A@600V(Q600) apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time 9 38 ms OFF-delay time 4 16 ms Overload relay	number of NO contacts for auxiliary contacts	1
apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time OFF-delay time Overload relay 67 VA 6.5 VA 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1	number of total auxiliary contacts maximum	8
apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC operating range factor control supply voltage rated value of magnet coil ON-delay time OFF-delay time Overload relay	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 operating range factor control supply voltage rated value of magnet coil ON-delay time OFF-delay time 9 38 ms OFF-delay time 4 16 ms Overload relay	Coil	
operating range factor control supply voltage rated value of magnet coil ON-delay time OFF-delay time 4 16 ms Overload relay	apparent pick-up power of magnet coil at AC	67 VA
magnet coil ON-delay time 9 38 ms OFF-delay time 4 16 ms Overload relay	apparent holding power of magnet coil at AC	6.5 VA
OFF-delay time 4 16 ms Overload relay		0.8 1.1
Overload relay	ON-delay time	9 38 ms
•	OFF-delay time	4 16 ms
product function	Overload relay	
	product function	

 overload protection 	Yes
 phase failure detection 	Yes
 asymmetry detection 	Yes
ground fault detection	Yes
• test function	Yes
external reset	Yes
reset function	Manual, automatic and remote
trip class	CLASS 5 / 10 / 20 / 30
adjustment range of thermal overload trip unit	6 25
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)	
 with single-phase operation at AC rated value 	600 V
 with multi-phase operation at AC rated value 	300 V
Enclosure	
degree of protection NEMA rating of the enclosure	NEMA 3/3R/4/12 enclosure
design of the housing	Dust- & watertight for outdoor use
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	2x (16 12), 2x (14 8)
AWG cables single or multi-stranded	
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 (20 16), 2x (18 14)
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
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	1x (20 14), 2x (20 14)
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	Class J
design of the short-circuit trip	Thermal magnetic circuit breaker
maximum short-circuit current breaking capacity (lcu)	
• at 240 V	5 kA

• at 480 V 5 kA • at 600 V 5 kA certificate of suitability UL 60947-4-1

Approvals Certificates

General Product Ap-Test Certificates other **Dangerous Good Environment** proval





Confirmation **Transport Information Environmental Con**firmations

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=3RE4122-4CA35-4QF6

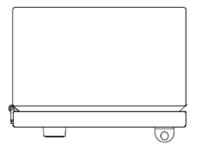
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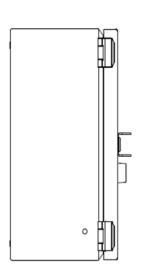
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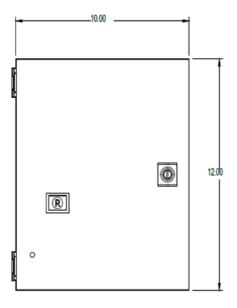
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4122-4CA35-4QF6&lang=en

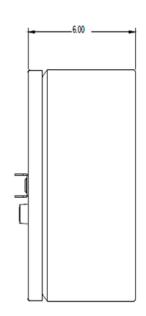
Certificates/approvals

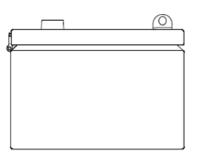
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