SIEMENS

Data sheet

product brand name

3RE4122-3AA11-1EF6

STARTER, 3RE41223AA111EY0, WITH MODS



product designation special product feature Seneral 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 speration -4 +104 FF ambient temperature during storage 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 type of voltage of the control supply voltage -at AC at 60 Hz rated value -at AC at 60 Hz rated value -at AC at 60 Hz rated value -at 200/208 V rated value -at 46-480 V rated value -at 575/600 V rated value -at	product brand name	Siemens
weight [b] 8 8 1	product designation	Non-reversing motor starter
weight [ib] Height x Width x Depth [in] 11 x 7 x 5 in 11 x 14 x 14 x 14 x 14 x 14 x 14 x 15 11 x 14 x	special product feature	Hand-Off-Auto Selector Switch
Height x Width x Depth [in] touch protection against electrical shock installation altitude [if] at height above see level maximum ambient temperature ['F] during storage ambient temperature ['F] during storage ambient temperature during storage ambient temperature during storage ambient temperature 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 60 Hz rated value at 20/208 V rated value at 60/408 V rated value at 575/600 V rated value at 670/408 or rated value maximum accounted for auxiliary contacts number of NC contacts for auxiliary contacts number of NC 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 [FF] during storage ambient temperature [FF] during operation 4 +104 *F ambient temperature during storage 30 +65 *C ambient temperature during storage ambient temperature during operation 20 +40 *C country of origin Power and control electronics number of poles for main current circuit 13 type of voltage of the control supply voltage 14 CA at 50 Hz rated value 24 V 41 control supply voltage 14 CA at 60 Hz rated value 24 V 42 disconnector functionality No yielded mechanical performance [hp] for 3-phase AC motor 14 200/208 V rated value 2 by at 4C at 60/480 V rated value 2 at 40/230 V rated value 2 at 20/230 V rated value 3 hp 1 at 575/600 V rated value 5 hp 1 at 575/600 V rated value 6 operating voltage for main current circuit at AC at 60 Hz maximum 0 perating voltage at AC-3 rated value maximum 0 perating voltage for MC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 2 number of NO contacts for auxiliary contacts 3 contact rating of auxiliary contacts maximum 8 contact rating of auxiliary contacts maximum 8 contact rating of auxiliary contacts of contactor according to UL 6 of VA 8 apparent holding power of magnet coil at AC 8 of VA 8 apparent holding power of magnet coil at AC 8 of VA	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 3 type of voltage of the control supply voltage out of at 50 Hz rated value at AC at 50 Hz rated value at AC at 60 Hz rated value 44 V disconnector functionality No yleided mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value at 200/208 V rated value at 200/208 V rated value at 3 hp at 460/480 V rated value at 575/600 V rated value at 575/600 V rated value 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 control supply voltage 1 Auxiliary contact number of NO contacts for auxiliary contacts number of NO contacts fo	Height x Width x Depth [in]	11 × 7 × 5 in
ambient temperature ["F] during storage 4 +104 "F ambient temperature during storage -30 +40 "F 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 type of voltage of the control supply voltage AC control supply voltage • at AC at 50 Hz rated value 24 V disconnector functionality yelded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value 24 V • at AC 40/480 V rated value 25 hp • at 220/230 V rated value 3 hp • at 450/480 V rated value 5 hp • at 450/480 V rated value 5 hp • at 575/600 V rated value 5 hp • at 575/600 V rated value 600 V number of NO contacts 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 5 ypical Auxiliary contact number of NC contacts for auxiliary contacts 1 number of NC contacts for au	touch protection against electrical shock	NA for enclosed products
ambient temperature ("F) during operation 4+104 "F ambient temperature during storage 3-30+65 "C ambient temperature during storage 3-30+65 "C ambient temperature during operation 2-20+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 • 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 3 hp • at 250/230 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 contacts 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 number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 6 number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 6 number of NO contact for auxiliary contacts 6 number of NO contact for auxiliary contacts 6 number of NO	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 450/208 V rated value 5 thp at 460/480 V rated value 5 thp at 460/480 V rated value 5 thp 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 for main current circuit at AC at 60 Hz number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 1 nu	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 hp • at 460/480 V rated value 3 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 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 NC contacts for auxiliary contacts 2 number of NC contacts for auxiliary contacts 3 number of NC contacts for auxiliary contacts 4 number of NC contacts for auxiliary contacts 6 number of NC c	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 457600 V rated value 5 hp • at 575600 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 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 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 type of voltage of the control supply voltage control supply voltage	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 475/600 V rated value • at 575/600 V rated value maximum • at 600 V • at 200/200 V rated value maximum • at 600 V • at 200/200 V rated value maximum • at 600 V • at 200/200 V rated value maximum • at 600 V rated value rated	country of origin	Germany
type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value 4 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 2 hp at 220/230 V rated value 2 hp at 460/480 V rated value 5 hp at 675/600 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 1 number of NO contacts for auxiliary contacts 6 of VA apparent holding power of magnet coil at AC 6 of VA apparent holding power of magnet coil at AC 6 of VA	Power and control electronics	
control supply voltage • 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 • at 675/600 V rated value • at 200/230 V rated value	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 220/230 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value to the formation 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 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 at AC-3 rated value maximum operating voltage at AC-3 rated value maximum operating voltage of NC contacts for auxiliary 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 holding power of magnet coil at AC 67 VA apparent holding power of magnet coil at AC 65 VA	type of voltage of the control supply voltage	AC
a ta 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 to at 575/600 V rated value To hp at 575/600 V rated value To 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 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 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 67 VA apparent holding power of magnet coil at AC 6.5 VA	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 575/600 V rated value Tontactor number of NO contacts for main contacts operating voltage at AC-3 rated value maximum operating voltage at AC-3 rated value maximum nechanical service life (operating cycles) of the main contacts typical Auxiliary contact 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 apparent holding power of magnet coil at AC 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 value Total total value total value Total total value maximum Total value value maximum Total value v	• at AC at 60 Hz rated value	24 V
at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value but 4575/600 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 service life (operating cycles) of the main contacts typical Auxillary contact number of NC 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 6.5 VA	disconnector functionality	No
at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value To the value at 575/600 V rated value To the value maximum To perating voltage for main current circuit at AC at 60 Hz maximum To perating voltage at AC-3 rated value maximum To perating voltage at AC-3 rated value maximum To the value maximum on the va	yielded mechanical performance [hp] for 3-phase AC motor	
at 460/480 V rated value at 5 hp 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 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 NO contacts for auxiliary contacts 1 number of total auxiliary contacts maximum 8 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 67 VA apparent holding power of magnet coil at AC 6.5 VA	• at 200/208 V rated value	2 hp
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 6.5 VA	• 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 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 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 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 apparent holding power of magnet coil at AC 65 VA	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 contact rating of auxiliary contacts of contactor according to UL DA@600V(A600), 2.5A@600V(Q600) 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 67 VA 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 apparent pick-up power of magnet coil at AC 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 apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC 6.5 VA		30 000 000
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 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 67 VA 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
Coil 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	0 29 mg
ON-delay time	9 38 ms
OFF-delay time	4 16 ms
Overload relay	
product function	Vaa
overload protection	Yes
• test function	Yes
external reset	Yes
reset function	Manual, automatic and remote (with optional accessory)
adjustment range of thermal overload trip unit	2.8 4
number of NC contacts of auxiliary contacts of overload relay	1
number of NO contacts of auxiliary contacts of overload relay contact rating of auxiliary contacts of overload relay according to	5A@600VAC (B600), 1A@250VDC (R300)
UL	3A@0007AC (B000), 1A@2307BC (1300)
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	00 °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 (lcu)	
• 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)

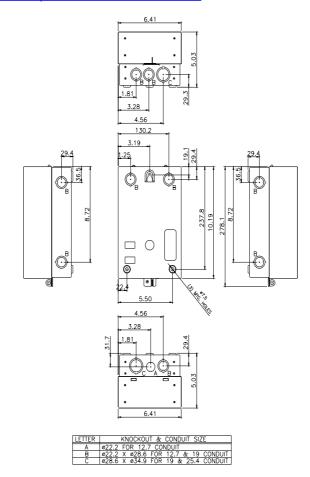
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4122-3AA11-1EF6&lang=en

Certificates/approvals

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