SIEMENS

Data sheet

3RE4123-5CA31-4EH3

STARTER, 3RE41235CA314EY0, WITH MODS



product designation special product feature Hand-Off-Auto Selector Switch, CPT Std Capacity 480/240/120V Genoral technical data weight [Ib] Height x Width x Depth [in] 14 x 12 x 8 in touch protection against electrical shock Installation altitude [ii] at height above sea level maximum ambient temperature [Fi] during storage ambient temperature [Fi] during operation 4 +104 *F ambient temperature during storage 3-30 +65 °C ambient temperature during operation 2-2 +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 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 15 hp 16 the 202/208 V rated value 16 the 40480 V rated value 17 the 40 hp 18 the 40480 V rated value 18 the 40480 V rated value 19 the 50 hp 18 the	product brand name	Siemens
weight [lb] 21 lb Height x Width x Depth [n] 14 x 12 x 8 in touch protection against electrical shock NA for enclosed products installation altitude [ft] at height above sea level maximum 6 560 ft ambient temperature [FT] during storage 2-22 +149 FT ambient temperature [FT] during operation 4 +104 FT ambient temperature during storage -30 +65 °C ambient temperature during storage -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 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 15 hp • at 220/230 V rated value 15 hp • at 460/480 V rated value 40 hp • at 575/600 V rated value 40 hp • at 575/600 V rated value 40 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 600 V mechanical service life (operating cycles) of the main contacts typical number of NC contacts for auxiliary contacts 1 number of NC contacts	product designation	Non-reversing motor starter
weight [ib] Height x Width x Depth [in] 14 x 12 x 8 in 14 x 12 x 8 in 14 x 12 x 8 in 15 x 10 x	special product feature	Hand-Off-Auto Selector Switch, CPT Std Capacity 480/240:120V
Height x Wirdth x Depth [in] touch protection against electrical shock Installation altitude [ft] at height above sea level maximum installation altitude [ft] at height above sea level se	General technical data	
touch protection against electrical shock installation altitude (If) 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 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 50 Hz rated value • at AC at 60 Hz rated value • at 200/208 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 • at 575/600 V rated value • at 575/600 V rated value • at 576/600 V rated value • at 576	weight [lb]	21 lb
Installation altitude [ft] at height above sea level maximum ambient temperature [*Ft] during storage ambient temperature (*Ft] 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 110 V at AC at 50 Hz rated value 120 V disconnector functionality yielded mechanical performance [tp] for 3-phase AC motor at 200/208 V rated value 15 hp at 420/230 V rated value 15 hp at 460/480 V rated value 20 v at 460/480 V rated value 40 hp Contactor number of NO contacts for main contacts operating voltage at AC-3 rated value maximum operating voltage at AC-3 rated value maximum moperating voltage of main current circuit at AC at 60 Hz maximum of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts nu	Height x Width x Depth [in]	14 × 12 × 8 in
ambient temperature ["F] during storage 4.2+149 "F ambient temperature during storage 3.0+65 "C ambient temperature during storage 3.0+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 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 15 hp • at 46/480 V rated value 15 hp • at 450/480 V rated value 30 hp • at 450/480 V rated value 40 hp Contactor number of NO contacts 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 NO contacts for auxiliary contacts 1 number of total auxiliary contacts 6 contactor according to UL Coil apparent holding power of magnet coil at AC 188 VA apparent holding power of magnet coil at AC 188 VA	touch protection against electrical shock	NA for enclosed products
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 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 15 hp • at 250/230 V rated value 15 hp • at 460/480 V rated value 20 V dup • at 575/600 V rated value 30 hp • at 575/600 V rated value 40 hp Contactor number of NC 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 main contacts 1 number of NC contacts for auxiliary contacts 1 1 10A@600V(A600), 5A@600V(P600)	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 110 V at AC at 60 Hz rated value 120 V disconnector functionality yielded mechanical performance [hp] for 3-phase AC motor at 400/208 V rated value 15 hp at 460/480 V rated value 15 hp at 460/480 V rated value 30 hp at 460/480 V rated value 30 hp at 460/480 V rated value 40 hp Contactor number of NO contacts for main contacts 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 NO contacts for auxiliary contacts number of NC contacts for auxiliary contacts 1 1 10A@600V(A600), 5A@600V(P600) 16.5 VA	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 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 15 hp • at 460/480 V rated value 30 hp • at 4575/600 V rated value 40 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 Auxiliary contact number of NC contacts for auxiliary contacts 1 number of total auxiliary contacts of contactor according to UL Coil apparent holding power of magnet coil at AC 188 VA apparent holding power of magnet coil at AC 188 VA apparent holding power of magnet coil at AC 18.5 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	ambient temperature during storage	-30 +65 °C
number of poles for main current circuit 1 type of voltage of the control supply voltage 2	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 disconnector functionality yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 46/3480 V rated value • at 46/3480 V rated value • at 4575/600 V rated value • at 578/600 V rated value • at 578/600 V rated value • at 60 Hz 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 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 188 VA apparent holding power of magnet coil at AC 188 VA	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 yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value 10 hp at 220/230 V rated value 15 hp at 460/480 V rated value 30 hp at 675/600 V rated value 40 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	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 10 hp • at 220/230 V rated value 15 hp • at 460/480 V rated value • at 575/600 V rated value 10 hp • at 575/600 V rated value 10 hp • at 675/600 V rated value 10 hp • at 675/600 V rated value 10 hp • at 675/600 V rated value 10 hp • at 757/600 V rated value 10 hp • at 675/600 V rated value 10 hp • at 220/230 V rated value 10 hp • at 675/600 V rated value 10 hp • at 220/230 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 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 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 total auxiliary contacts of contactor according to UL Coil apparent holding power of magnet coil at AC 16.5 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 at 575/600 V rated value 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 for main current circuit at AC operating voltage for main contacts at AC-3 rated value 10 hp 00 hp 00 V 0	control supply voltage	
disconnector functionality yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value 10 hp • at 220/230 V rated value 15 hp • at 460/480 V rated value 30 hp • at 575/600 V rated value 40 hp Contactor number of NO contacts for main contacts operating voltage at AC-3 rated value maximum operating voltage at AC-3 rated value maximum number of NC contacts for main contacts 30 000 000 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 of contactor according to UL Coil apparent holding power of magnet coil at AC 188 VA apparent holding power of magnet coil at AC 16.5 VA	 at AC at 50 Hz rated value 	110 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 • at 575/600 V rated value 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 foo V mechanical service life (operating cycles) of the main contacts typical Auxillary contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of total auxiliary contacts for auxiliary contacts number of total auxiliary contacts of contactor according to UL 10A@600V(A600), 5A@600V(P600) Coil apparent holding power of magnet coil at AC 188 VA apparent holding power of magnet coil at AC 16.5 VA	at AC at 60 Hz rated value	120 V
at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 4575/600 V rated value 40 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 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 188 VA apparent holding power of magnet coil at AC 16.5 VA	disconnector functionality	No
at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value 40 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 if (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 188 VA apparent holding power of magnet coil at AC 16.5 VA	yielded mechanical performance [hp] for 3-phase AC motor	
at 460/480 V rated value at 575/600 V rated value 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 number of NO contacts for auxiliary contacts number of total auxiliary contacts maximum secontact 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 apparent holding power of magnet coil at AC 16.5 VA	• at 200/208 V rated value	10 hp
at 575/600 V rated value 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 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 188 VA apparent holding power of magnet coil at AC 16.5 VA	• at 220/230 V rated value	15 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 16.5 VA	• at 460/480 V rated value	30 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 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 16.5 VA	at 575/600 V rated value	40 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 16.5 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 apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC 16.5 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 10.5 VA		600 V
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 16.5 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 16.5 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 10A@600V(A600), 5A@600V(P600) Coil apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC 188 VA 185 VA	Auxiliary contact	
number of total auxiliary contacts maximum contact rating of auxiliary contacts of contactor according to UL 10A@600V(A600), 5A@600V(P600) Coil apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC 188 VA 16.5 VA	number of NC contacts for auxiliary contacts	1
contact rating of auxiliary contacts of contactor according to UL 10A@600V(A600), 5A@600V(P600) Coil apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC 188 VA 16.5 VA	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 188 VA 16.5 VA	number of total auxiliary contacts maximum	8
apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC 188 VA 16.5 VA	contact rating of auxiliary contacts of contactor according to UL	10A@600V(A600), 5A@600V(P600)
apparent holding power of magnet coil at AC 16.5 VA	Coil	
	apparent pick-up power of magnet coil at AC	188 VA
operating range factor control supply voltage rated value of 0.8 1.1	apparent holding power of magnet coil at AC	16.5 VA
	operating range factor control supply voltage rated value of	0.8 1.1

Siemens

magnet coil	4000
ON-delay time	10 80 ms
OFF-delay time	10 18 ms
Overload relay	
product function	V
overload protection	Yes
• test function	Yes
external reset	Yes
reset function adjustment range of thermal overload trip unit	Manual, automatic and remote (with optional accessory) 22 32
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	0/1@000 v/10 (2000), 1/1@200 v20 (1000)
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	Box lug
tightening torque [lbf-in] for supply	26 39 lbf·in
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	2x (18 2), 1x (18 1)
temperature of the conductor for supply maximum permissible	0°C
material of the conductor for supply	CU
type of electrical connection for load-side outgoing feeder	Box lug
tightening torque [lbf·in] for load-side outgoing feeder	26 39 lbf·in
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded	2x (18 2), 1x (18 1)
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 (18 2), 1x (18 1)
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 480 V at 600 V	

Further information

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

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

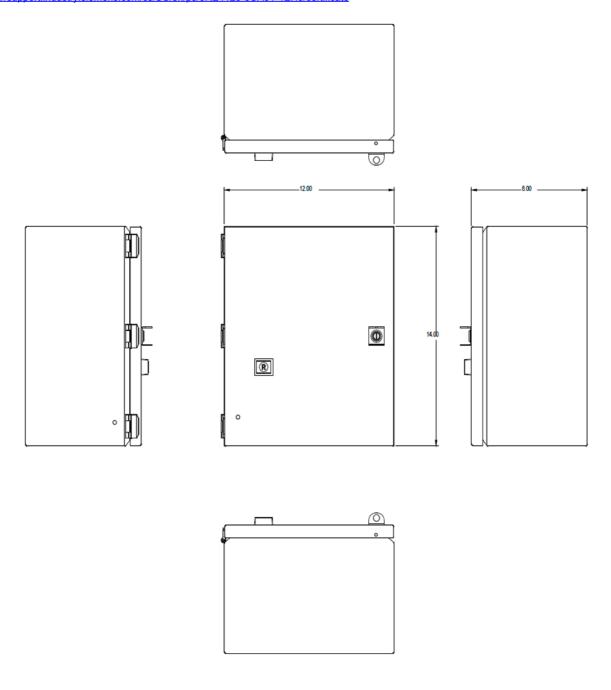
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4123-5CA31-4EH3&lang=en

Certificates/approvals

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