SIEMENS

Data sheet

STARTER,FVNR,S0,3PH,THOLR,120VAC,NEMA 1



product designation special product feature Rochard (Feature No factory installed accessories) General technical data welght [Ib] Height x Width x Depth [in] 11 x 7 x 5 in touch protection against electrical shock Installation altitude [fi] at height above sea level maximum ambient temperature [Fi] during storage ambient temperature [Fi] during storage ambient temperature during storage 3-30 +65 °C 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 at AC at 50 Hz rated value at AC at 60 Hz rated value 110 V at AC at 60 Hz rated value at 200/208 V rated value at 200/208 V rated value at 400/408 V rated value 5 hp at 575/600 V rated value 5 hp control NO contacts for main current circuit at AC at 60 Hz maximum 600 V 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 one for a for a for a for NO contacts for auxili	product brand name	Sierriens
weight [b] 8 lb Height x Width x Depth [n] 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 Qermany Power and control electronics number of poles for main current circuit 3 3 type of voltage of the control supply voltage • at AC at 50 Hz rated value 110 V • at AC at 60 Hz rated value 120 V disconnector functionality Nel Velided mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value 5 hp • at 200/208 V rated value 5 hp • at 200/208 V rated value 15 hp • at 460/480 V rated value 15 hp • at 675/600 V rated value 15 hp • at 675/600 V rated value 15 hp • at 675/600 V rated value 15 hp Contactor 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 typical number of NC contacts for auxiliary contacts 1 number of NC contacts for auxili	product designation	Non-reversing motor starter
weight [lb] 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	No factory installed accessories
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 22 *149 *F ambient temperature [*F] during storage 23 *46 *F ambient temperature during storage 30 *46 *C ambient temperature during storage 30 *46 *C ambient temperature during storage 30 *46 *C county of origin Power and control electronics number of Poles for main current circuit 3 type of voltage of the control supply voltage 210 voltage of the control supply voltage 211 voltage of the control supply voltage 212 voltage of the control supply voltage 213 voltage of the control supply voltage 214 AC at 50 Hz rated value 215 voltage of the control supply voltage 216 voltage of the control supply voltage 217 voltage of the control supply voltage 218 voltage of the control supply voltage 219 voltage of the control supply voltage 210 voltage of the control supply voltage 210 voltage of the control supply voltage 211 voltage of the control supply voltage 212 voltage of the control supply voltage 219 voltage of the control supply voltage 210 voltage of the control supply voltage 210 voltage of the control supply voltage 210 voltage of the control supply voltage of the su	General technical data	
touch protection against electrical shock installation altitude (II) at height above sea level maximum ambient temperature [*F] during storage	weight [lb]	8 lb
installation altitude [ft] at height above sea level maximum ambient temperature ['Ff] during storage ambient temperature ['Ff] during operation 4 +104 "F 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 ontol supply voltage at AC at 50 Hz rated value 110 V at AC at 60 Hz rated value 120 V disconnector functionality yleided mechanical performance [hp] for 3-phase AC motor at 220/230 V rated value 15 hp at 220/230 V rated value 15 hp at 3576/600 V rated value 15 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 type of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 2 of VA 3 apparent holding power of magnet coil at AC 4 of VA 4 apparent holding power of magnet coil at AC 6 of VA 4 apparent holding power of magnet coil at AC 6 of VA	Height x Width x Depth [in]	11 × 7 × 5 in
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 110 V at AC at 50 Hz rated value 120 V disconnector functionality yielded mechanical performance [hp] for 3-phase AC motor at 20/2020 V rated value 5 hp at 220/230 V rated value 5 hp at 46/0480 V rated value 10 hp at 575/600 V rated value 5 thp Tomber 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 at AC-3 rated value maximum mechanical service life (operating cycles) of the main contacts typical Auxillary contact number of NC contacts for auxillary contacts number of NC c	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 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 5 hp • at 220/230 V rated value 15 hp • at 460/480 V rated value 15 hp • at 575/600 V rated value 15 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 ypical number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 6 number of NC contact for auxiliary contacts 6 number of NC contacts for auxiliary contacts 6 number of NC contacts for auxiliary contacts 6 number of NC contact for auxili	installation altitude [ft] at height above sea level maximum	6 560 ft
ambient temperature during storage -30 +65 °C ambient temperature during operation -20 +40 °C country of origin	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 60 Hz rated value 120 V disconnector functionality No yielded mechanical performance [hp] for 3-phase AC motor • at 220/220 V rated value 5 hp • at 220/230 V rated value 5 hp • at 460/480 V rated value 10 hp • at 575/600 V rated value 15 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 Auxillary 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 6 num	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 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 5 hp • at 220/230 V rated value 5 hp • at 480/480 V rated value 10 hp • at 4575/600 V rated value 15 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 NO contacts for auxiliary contacts 1 number of total auxiliary contacts maximum 8 contact rating of auxiliary contacts maximum 8 apparent pick-up power of magnet coil at AC 67 VA apparent holding power of magnet coil at AC 65 VA	ambient temperature during storage	-30 +65 °C
Power and control electronics number of poles for main current circuit 1 type of voltage of the control supply voltage at AC at 50 Hz rated value 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 5 hp at 220/230 V rated value 5 hp at 240/480 V rated value 10 hp at 460/480 V rated value 15 hp To hp at 575/600 V rated value 5 hp 600 V number of NO contacts for main contacts vipical Auxiliary contact number of NO contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 2 of VA 2 apparent holding power of magnet coil at AC 4 of VA 3 apparent holding power of magnet coil at AC 5 of VA 6 of 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 120 V disconnector functionality No yielded 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 460/480 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value 15 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 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 voitage of the control supply voitage 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 5 hp at 220/230 V rated value 5 hp at 460/480 V rated value 10 hp at 575/600 V rated value 15 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 ife (operating cycles) of the main contacts typical Auxiliary contact 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 holding power of magnet coil at AC 67 VA apparent holding power of magnet coil at AC 6.5 VA	Power and control electronics	
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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 575/600 V rated value at 575/600 V rated value at 675/600 V rated value at 675/600 V rated value at 675/600 V rated value be at 600 V rated value accordance 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 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
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 575/600 V rated value to hp at 575/600 V rated value to hp contacts number of NO contacts for main contacts summinum mechanical service life (operating cycles) of the main contacts pumber of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 10 000 000 Auxiliary contact number of NC contacts for auxiliary contacts 1 number of NC 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	
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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 10 hp • at 575/600 V rated value 15 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 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 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	at AC at 60 Hz rated value	120 V
at 220/230 V rated value at 220/230 V rated value but 460/480 V rated value at 460/480 V rated value but 55 hp at 460/480 V rated value but 575/600 V rated value but 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 operating	disconnector functionality	No
at 220/230 V rated value at 460/480 V rated value 10 hp at 575/600 V rated value 15 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 ife (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 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 apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC apparent pick-up power of magnet coil at AC apparent holding power of magnet coil at AC apparent pick-up power of magnet coil at AC ap	yielded mechanical performance [hp] for 3-phase AC motor	
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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 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 Coil 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	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 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 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	10 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 apparent holding power of magnet coil at AC apparent holding power of magnet coil at AC apparent maximum to the contact according to UL 600 V 10 000 000 10 000 000 10 000 000 10 000 00	• at 575/600 V rated value	15 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 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 10 000 000 10	Contactor	
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 1 number of total auxiliary contacts maximum 8 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	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 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		10 000 000
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 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 67 VA 6.5 VA	number of NO contacts for auxiliary contacts	1
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 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	Voc
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	30 36
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@000VAC (B000), 1A@230VBC (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 (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)

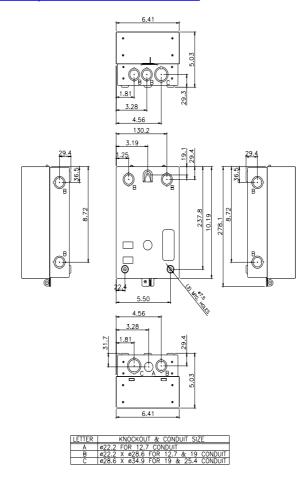
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4122-5AA31-4PY0&lang=en

Certificates/approvals

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