SIEMENS

Data sheet

3RE4121-5CA35-4TY0

STARTER,FVNR,S00,3PH,SSOLR,120V,N3R/4/12



product brand name	Siemens	
product designation	Non-reversing motor starter	
special product feature	No factory installed accessories	
General technical data		
weight [lb]	14 lb	
Height x Width x Depth [in]	12 × 10 × 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		
 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	1.5 hp	
• at 220/230 V rated value	2 hp	
• at 460/480 V rated value	3 hp	
• at 575/600 V rated value	5 hp	
Contactor		
number of NO contacts for main contacts	3	
operating voltage at AC-3 rated value maximum	600 V	
mechanical service life (operating cycles) of the main contacts typical	30 000 000	
Auxiliary contact		
number of NC contacts for auxiliary contacts	0	
number of NO contacts for auxiliary contacts	1	
number of total auxiliary contacts maximum	6	
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	26.4 VA	
apparent holding power of magnet coil at AC	4.4 VA	
operating range factor control supply voltage rated value of magnet coil	0.8 1.1	
ON-delay time	9 35 ms	
OFF-delay time	3.5 14 ms	
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	4 16
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	7 10 lbf·in
type of connectable conductor cross-sections at line-side for	2x (20 16), 2x (18 14), 2x 12
AWG cables single or multi-stranded	ZA (20 10), ZA (10 14), ZA 12
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	Screw-type terminals
tightening torque [lbf·in] for load-side outgoing feeder	7 10 lbf·in
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded	2x (20 16), 2x (18 14), 2x 12
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), 2x 12
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), 2x 12
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 Environment proval



Confirmation

Environmental Confirmations

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=3RE4121-5CA35-4TY0

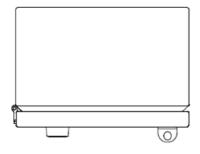
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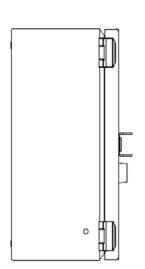
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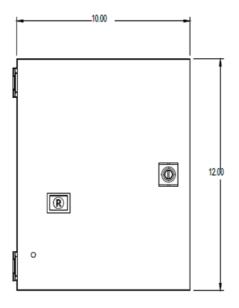
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4121-5CA35-4TY0&lang=en

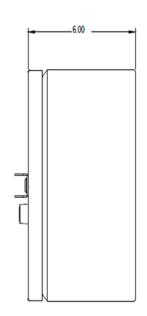
Certificates/approvals

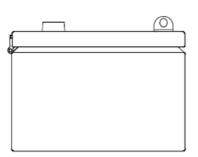
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