SIEMENS

Data sheet

3RE4121-5CA31-1GY0

STARTER, FVNR, S00, 3PH, THOLR, 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 for main current circuit at AC at 60 Hz maximum	600 V		
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			

temperature of the cond contacts maximum perr material of the conducte Short-circuit current rat design of the fuse link for circuit required design of the short-circu	kiliary contacts single or m ductor at overload relay fo missible or at overload relay for au ting for short-circuit protection o	auxiliary liary contacts overload relay ulti-stranded r auxiliary xiliary contacts of the main	CU Screw 7 11 2x (20 70 °C CU Class Therm 5 kA 5 kA	0 16), 2x (18 14)	
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temperature of the cond contacts maximum perr	at overload relay for at overload relay for auxinductor cross-sections at or ciliary contacts single or m ductor at overload relay fo missible	auxiliary liary contacts overload relay ulti-stranded r auxiliary	CU Screw 7 1 2x (20 70 °C	0 lbf·in 0 16), 2x (18 14)	
temperature of the cond	at overload relay for at overload relay for auxi nductor cross-sections at o ciliary contacts single or m ductor at overload relay fo	auxiliary liary contacts overload relay ulti-stranded	CU Screw 7 1 2x (20	0 lbf·in 0 16), 2x (18 14)	
IOI AWG Cables IOI aux	ection at overload relay for at overload relay for auxi nductor cross-sections at o	auxiliary liary contacts overload relay	CU Screw 7 1	0 lbf·in	
type of connectable conductor cross-sections at overload relay for AWG cables for auxiliary contacts single or multi-stranded		auxiliary liary contacts	CU Screw 7 1	0 lbf·in	
	ction at overload relay for	auxiliary	CU Screw		
contacts			CU		
maximum permissible	temperature of the conductor at contactor for auxiliary contacts maximum permissible		75 °C		
	nductor cross-sections at or ry contacts single or multi-			2x (20 16), 2x (18 14), 2x 12	
] at contactor for auxiliary		7 1	7 10 lbf·in	
	ction for auxiliary contacts			Screw-type terminals	
material of the conducto	or at magnet coil		CU		
temperature of the conc permissible	ductor at magnet coil max	imum	75 °C		
AWG cables single or n		-) 16), 2x (18 14), 2x 12	
tightening torque [lbf·in]		magnat apil for		0 lbf·in	
type of electrical conne				/-type terminals	
material of the conductor	or for load-side outgoing fe	eeder	CU		
temperature of the cond maximum permissible	ductor for load-side outgoi	ng feeder	60 °C		
5.	nductor cross-sections for reeder single or multi-stran		2x (20	0 16), 2x (18 14), 2x 12	
] for load-side outgoing fee			0 lbf·in	
type of electrical conne	ction for load-side outgoin	g feeder	Screw	-type terminals	
material of the conducto	or for supply		CU		
temperature of the cond	ductor for supply maximur	n permissible	60 °C		
type of connectable cor AWG cables single or n	nductor cross-sections at I multi-stranded	ine-side for	2x (20	0 16), 2x (18 14), 2x 12	
tightening torque [lbf·in]] for supply		7 1	0 lbf·in	
type of electrical conne	ction for supply voltage lin	ie-side	Screw	-type terminals	
fastening method			Surfac	ce mounting and installation	
mounting position			vertica	al	
Mounting/wiring			2001		
design of the housing		с		& watertight for outdoor use	
	EMA rating of the enclosur	A		3/3R/4/12 enclosure	
UL Enclosure	,	, ,	U	, , , , , ,	
	ry contacts of overload rel			00VAC (B600), 1A@250VDC (R300)	
	of auxiliary contacts of ov		1		
	of auxiliary contacts of ov	verload relav	4.5	0.5	
reset function adjustment range of the	armal overload trip unit		4.5	al, automatic and remote (with optional accessory)	
external reset			Yes		
 test function 			Yes		
 overload protecti 	ion		Yes		
product function					





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=3RE4121-5CA31-1GY0

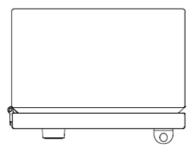
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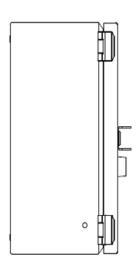
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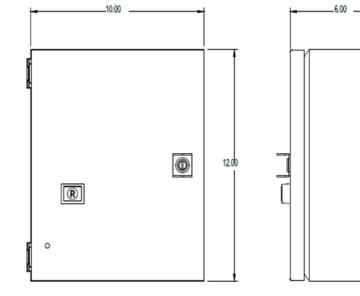
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4121-5CA31-1GY0&lang=en

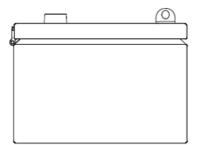
Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/3RE4121-5CA31-1GY0/certificate









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