SIEMENS

Data sheet

3RE4121-5CA31-1JH3

STARTER, 3RE41215CA311JY0, WITH MODS



product brand name	Siemens			
product designation	Non-reversing motor starter			
special product feature	Hand-Off-Auto Selector Switch, CPT Std Capacity 480/240:120V			
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				

			-			
product function			Vaa			
overload protection	л		Yes			
test functionexternal reset			Yes			
reset function				Yes		
adjustment range of ther	rmal overload trip unit			Manual, automatic and remote (with optional accessory)		
	of auxiliary contacts of ov	verload relay	1	7 10		
	of auxiliary contacts of over		1			
	y contacts of overload re	•		5A@600VAC (B600), 1A@250VDC (R300)		
UL UL	y contacts of overload re	lay according to	3A@00	0, 16000 1, 10 (D000), 1/160200 1DO (11000)		
Enclosure						
degree of protection NE	MA rating of the enclosur	re	NEMA	3/3R/4/12 enclosure		
design of the housing			Dust- & watertight for outdoor use			
Mounting/wiring						
mounting position			vertical	I		
fastening method			Surface mounting and installation			
type of electrical connec	ction for supply voltage lin	ne-side	Screw-type terminals			
tightening torque [lbf-in]	for supply		7 10 lbf·in			
type of connectable cond AWG cables single or m	ductor cross-sections at l nulti-stranded	line-side for	2x (20 16), 2x (18 14), 2x 12			
temperature of the cond	uctor for supply maximur	m permissible	60 °C			
material of the conducto	r for supply		CU			
type of electrical connec	ction for load-side outgoin	ng feeder	Screw-type terminals			
tightening torque [lbf·in]	for load-side outgoing fe	eder	7 10	7 10 lbf·in		
	ductor cross-sections for eeder single or multi-strar		2x (20 16), 2x (18 14), 2x 12			
temperature of the cond maximum permissible	luctor for load-side outgo	ing feeder	60 °C			
material of the conducto	or for load-side outgoing f	eeder	CU			
type of electrical connec	tion of magnet coil		Screw-type terminals			
tightening torque [lbf·in]			7 10 lbf·in			
AWG cables single or m			2x (20 16), 2x (18 14), 2x 12			
temperature of the condesion permissible	luctor at magnet coil max	imum 	75 °C			
material of the conducto	r at magnet coil		CU			
	ction for auxiliary contacts		Screw-type terminals			
0 0 1 1 1	at contactor for auxiliary		7 10			
AWG cables for auxiliary	ductor cross-sections at y contacts single or multi-	-stranded	2x (20 16), 2x (18 14), 2x 12			
maximum permissible	luctor at contactor for aux		75 °C			
	or at contactor for auxiliar	•	CU			
contacts	ction at overload relay for			Screw-type terminals		
	tightening torque [lbf·in] at overload relay for auxiliary contacts		7 10 lbf·in			
for AWG cables for auxil	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)			
contacts maximum perm	temperature of the conductor at overload relay for auxiliary contacts maximum permissible		70 °C			
	r at overload relay for au	xiliary contacts	CU			
Short-circuit current rati		£11 :	<u> </u>			
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)		CIA				
• at 240 V				5 kA		
• at 480 V			5 kA			
• at 600 V 5 kA						
certificate of suitability UL 60947-4-1 Approvals Certificates						
was a series of the series of						
General Product Ap-						





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=3RE4121-5CA31-1JH3

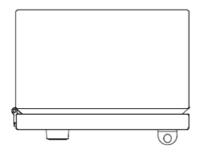
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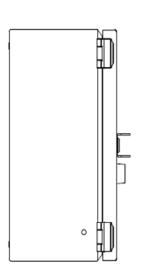
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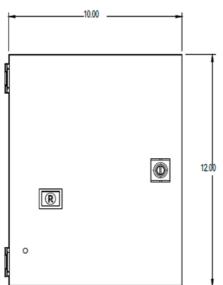
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4121-5CA31-1JH3&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/3RE4121-5CA31-1JH3/certificate









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