SIEMENS

Data sheet

product brand name

3RE4122-3AA31-4FF6

STARTER, 3RE41223AA314FY0, WITH MODS



product designation Non-reversing motor starter special product feature Hand-Off-Auto Selector Switch General technical data weight [lb] 8 lb		
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weight [lb] 8 lb		
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Height x Width x Depth [in] 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 [°F] during storage -22 +149 °F		
ambient temperature [°F] 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 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 2 hp		
• at 220/230 V rated value 3 hp		
• at 460/480 V rated value 5 hp		
• at 575/600 V rated value 7.5 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 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 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		
operating range factor control supply voltage rated value of 0.8 1.1		

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magnet coil	0.00	
ON-delay time	9 38 ms	
OFF-delay time	4 16 ms	
Overload relay		
product function	V	
overload protection	Yes	
• test function	Yes	
external reset	Yes	
reset function	Manual, automatic and remote (with optional accessory) 28 40	
adjustment range of thermal overload trip unit 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	3/1@0007/10 (B000), 1/1@2007B0 (1/000)	
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	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 (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	
	UL 60947-4-1	

Further information

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

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

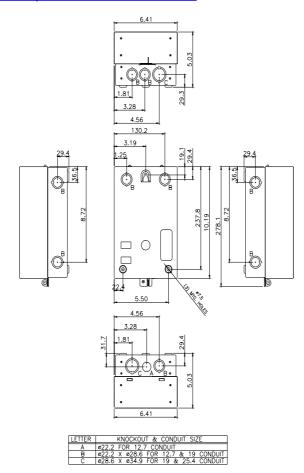
m/mall/en/us/Catalog/product?mlfb=3RE4122-3AA31-4FF6

Search Datasheet in Service&Support (Manuals) https://support.industry.siemens.com/cs/US/en/ps/3RE4122-3AA31-4FF6/man

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RE4122-3AA31-4FF6&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/3RE4122-3AA31-4FF6/certificate



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