SIEMENS

Data sheet 3RE4122-3BA31-1HC8

	3RE41223BA311HY0 with mods
General technical data	
weight [lb]	13 lb
Height x Width x Depth [in]	14 × 8 × 7 in
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
Power and control electronics	
number of poles for main current circuit	3
control supply voltage	
● at AC at 50 Hz rated value	110 V
● at AC at 60 Hz rated value	120 V
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	10 000 000
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
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 magnet coil	0.8 ... 1.1
ON-delay time	9 ... 38 ms
OFF-delay time	4 ... 16 ms
Overload relay	
adjustment range of thermal overload trip unit	5.5 ... 8
number of NC contacts of auxiliary contacts of overload relay	1
number of NO contacts of auxiliary contacts of overload relay	1
Mounting/wiring	
tightening torque [lbf·in] for supply	18 ... 21 lbf·in
temperature of the conductor for supply maximum permissible	60 °C
tightening torque [lbf·in] for load-side outgoing feeder	18 ... 21 lbf·in
temperature of the conductor for load-side outgoing feeder maximum permissible	60 °C
tightening torque [lbf·in] at magnet coil	7 ... 10 lbf·in
temperature of the conductor at magnet coil maximum permissible	75 °C
tightening torque [lbf·in] at contactor for auxiliary contacts	7 ... 10 lbf·in
temperature of the conductor at contactor for auxiliary contacts maximum permissible	75 °C
tightening torque [lbf·in] at overload relay for auxiliary contacts	7 ... 10 lbf·in

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temperature of the conductor at overload relay for auxiliary contacts maximum permissible	70 °C
Short-circuit current rating	
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	5 kA
• at 480 V	5 kA
• at 600 V	5 kA
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=3RE4122-3BA31-1HC8
Search Datasheet in Service&Support (Manuals)
https://support.industry.siemens.com/cs/US/en/ps/3RE4122-3BA31-1HC8/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=3RE4122-3BA31-1HC8&lang=en
Certificates/approvals
https://support.industry.siemens.com/cs/US/en/ps/3RE4122-3BA31-1HC8/certificate

last modified: 4/15/2021

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