SIEMENS

Data sheet 3TK1542-0AF0



Contactor, AC-1, 4-pole, 800 A, main contacts 4 NO, Auxiliary contacts 2 NO + 2 NC, AC operation 110 V AC 50 Hz/120 V AC 60 Hz

Figure similar

reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 07/01/2008 ambient temperature during operation -25 +55 °C number of Poles for main current circuit 4 number of NC contacts for main contacts 4 number of NC contacts for main contacts 0 o at AC-1 at 400 V - - at ambient temperature 40 °C rated value 800 A • at AC-3 at 400 V rated value 550 A operating power - • at AC-3 at 400 V rated value 280 kW • port ovoltage of the control supply voltage AC control supply voltage at AC - • at 50 Hz rated value 110 V control supply voltage frequency 110 V • 1 rated value 50 Hz • 2 rated value 60 Hz control version of the switch operating mechanism conventional number of NC contacts for auxiliary contacts 2 • instantaneous contact 2 • lagging switching 0 number of NC contacts for auxiliary contacts 2 • leading contact	protection class IP on the front	IP00
ambient temperature during operation -25 +55 °C number of poles for main current circuit 4 number of NC contacts for main contacts 4 number of NC contacts for main contacts 0 operational current • at AC-1 at 400 V — at ambient temperature 40 °C rated value 800 A • at AC-3 at 400 V rated value 550 A operating power • at AC-1 at 400 V rated value 280 kW • at AC-3 at 400 V rated value 280 kW • at AC-3 at 400 V rated value 40 °C rated value 280 kW • at AC-3 at 400 V rated value 525 kW • at AC-3 at 400 V rated value 100 V rated value 280 kW type of voltage of the control supply voltage AC • at 50 Hz rated value 110 V control supply voltage at AC • at 50 Hz rated value 60 Hz control supply voltage frequency • 1 rated value 60 Hz control version of the switch operating mechanism conventional number of NC contacts for auxiliary contacts 2 • instantaneous contact 2 • lagging switching 0 number of NC contacts for auxiliary contacts • instantaneous contact 2 • leading contact 1 • leading contact 1 • leading contact 1 • screw fixing 400 version of the switch operating elements 2 fastening method 5 screw fixing 400 version of the switch operating elements 2 • screw fixing 400 version of the switch operating elements 2 • screw fixing 400 version of the switch operating elements 400 version operating elements 400 version of the switch operating elements 40	reference code according to IEC 81346-2	Q
number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operational current • at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value • at EC-3 at 400 V rated value • at EC-3 at 400 V rated value • at SO Hz rated value • at SO Hz rated value • 1 rated value • 2 rated value • 2 rated value • 2 rated value • 10 Hz control supply voltage frequency • 1 rated value • 2 rated value • 10 Hz control version of the switch operating mechanism number of NC contacts for auxiliary contacts • instantaneous contact • lagging switching ounder of NC contacts for auxiliary contacts • instantaneous contact • leading contact • leading contact identification number and letter for switching elements • side-by-side mounting Yes height	Substance Prohibitance (Date)	07/01/2006
number of NC contacts for main contacts 4 number of NC contacts for main contacts 0 operational current ************************************	ambient temperature during operation	-25 +55 °C
number of NC contacts for main contacts operational current	number of poles for main current circuit	4
operational current at AC-1 at 400 V	number of NO contacts for main contacts	4
• at AC-1 at 400 V — at ambient temperature 40 °C rated value • at AC-3 at 400 V rated value 550 A operating power • at AC-1 at 400 V rated value 525 kW • at AC-3 at 400 V rated value 280 kW type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value 110 V control supply voltage frequency • 1 rated value 50 Hz • 2 rated value 60 Hz control version of the switch operating mechanism number of NC contacts for auxiliary contacts • instantaneous contact • lagging switching number of NO contacts for auxiliary contacts • instantaneous contact • lagding contact • leading contact • leading contact • leading contact • leading contact • side-by-side mounting • side-by-side mounting Yes height	number of NC contacts for main contacts	0
- at ambient temperature 40 °C rated value 550 A operating power • at AC-1 at 400 V rated value 525 kW • at AC-3 at 400 V rated value 280 kW type of voltage of the control supply voltage AC control supply voltage at AC • at 50 Hz rated value 110 V control supply voltage frequency • 1 rated value 50 Hz • 2 rated value 60 Hz control version of the switch operating mechanism conventional number of NC contacts for auxiliary contacts • lagging switching 0 number of NO contacts for auxiliary contacts • instantaneous contact • leading contact • leading contact • leading contact • side-by-side mounting elements 22 fastening method • side-by-side mounting 7 yes height O 272 mm	operational current	
• at AC-3 at 400 V rated value operating power • at AC-1 at 400 V rated value • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value 280 kW type of voltage of the control supply voltage AC control supply voltage at AC • at 50 Hz rated value 110 V control supply voltage frequency • 1 rated value 50 Hz control version of the switch operating mechanism conventional number of NC contacts for auxiliary contacts • lagging switching number of NO contacts for auxiliary contacts • instantaneous contact • leading contact • leading contact • leading contact • side-by-side mounting nethod • side-by-side mounting possible by at AC 255 kW 260 kW 272 mm 110 V 200 control version of the switch operating mechanism conventional 200 control version of the switch operating mechanism conventional 210 control version of the switch operating mechanism conventional 210 control version of the switch operating mechanism conventional 210 control version of the switch operating mechanism conventional 210 control version of the switch operating mechanism conventional 211 control version of the switch operating mechanism conventional 211 control version of the switch operating mechanism conventional 211 control version of the switch operating mechanism conventional 212 control version of the switch operating mechanism conventional 213 conventional 214 control version of the switch operating mechanism conventional 215 control version of the switch operating mechanism conventional 215 control version of the switch operating mechanism conventional 215 control version of the switch operating mechanism conventional 216 control version of the switch operating mechanism conventional 217 control version of the switch operating mechanism control version of the switc	• at AC-1 at 400 V	
operating power 525 kW • at AC-1 at 400 V rated value 525 kW • at AC-3 at 400 V rated value 280 kW type of voltage of the control supply voltage AC control supply voltage at AC 110 V • at 50 Hz rated value 50 Hz • 1 rated value 50 Hz • 2 rated value 60 Hz control version of the switch operating mechanism conventional number of NC contacts for auxiliary contacts 2 • instantaneous contact 2 • lagging switching 0 number of NC contacts for auxiliary contacts 2 • instantaneous contact 2 • leading contact 2 • leading contact 0 Identification number and letter for switching elements 22 fastening method screw fixing • side-by-side mounting Yes height 272 mm	 at ambient temperature 40 °C rated value 	800 A
at AC-1 at 400 V rated value at AC-3 at 400 V rated value 280 kW type of voltage of the control supply voltage AC control supply voltage at AC at 50 Hz rated value 110 V control supply voltage frequency at rated value 50 Hz control version of the switch operating mechanism number of NC contacts for auxiliary contacts lagging switching number of NO contacts for auxiliary contacts instantaneous contact leading method side-by-side mounting leading leading contact leading contact leading method side-by-side mounting leading contact leading contact leading contact leading contact leading method screw fixing Yes leading leading contact leading contact leading contact leading contact leading method screw fixing Yes leading leading contact lead	• at AC-3 at 400 V rated value	550 A
type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value 110 V control supply voltage frequency 1 rated value 5 0 Hz 60 Hz control version of the switch operating mechanism number of NC contacts for auxiliary contacts lagging switching 0 number of NO contacts for auxiliary contacts instantaneous contact leading contact leading contact leading contact identification number and letter for switching elements eight AC AC AC AC AC AC AC AC AC A	operating power	
type of voltage of the control supply voltage control supply voltage at AC	• at AC-1 at 400 V rated value	525 kW
control supply voltage at AC • at 50 Hz rated value control supply voltage frequency • 1 rated value • 2 rated value • 2 rated value control version of the switch operating mechanism number of NC contacts for auxiliary contacts • lagging switching number of NO contacts for auxiliary contacts • lagging switching number of NO contacts for auxiliary contacts • lagding contact • leading contact • leading contact • side-by-side mounting • side-by-side mounting 110 V 20 110 V 20 120 120 120 120 120 120 120	• at AC-3 at 400 V rated value	280 kW
 at 50 Hz rated value control supply voltage frequency 1 rated value 2 rated value 60 Hz control version of the switch operating mechanism conventional number of NC contacts for auxiliary contacts instantaneous contact lagging switching number of NO contacts for auxiliary contacts instantaneous contact instantaneous contact instantaneous contact instantaneous contact leading contact leading contact sidentification number and letter for switching elements screw fixing side-by-side mounting Yes height 272 mm 	type of voltage of the control supply voltage	AC
control supply voltage frequency • 1 rated value • 2 rated value 60 Hz control version of the switch operating mechanism number of NC contacts for auxiliary contacts • instantaneous contact • lagging switching number of NO contacts for auxiliary contacts • instantaneous contact • leading contact • leading contact • leading contact screw fixing • side-by-side mounting height 50 Hz conventional conventional conventional 2 2 2 4 60 Hz 60	control supply voltage at AC	
 1 rated value 2 rated value 60 Hz control version of the switch operating mechanism number of NC contacts for auxiliary contacts instantaneous contact lagging switching number of NO contacts for auxiliary contacts instantaneous contact leading contact leading contact leading contact screw fixing side-by-side mounting height 50 Hz dentification number 22 screw fixing yes height 272 mm 	at 50 Hz rated value	110 V
e 2 rated value control version of the switch operating mechanism number of NC contacts for auxiliary contacts e instantaneous contact e lagging switching number of NO contacts for auxiliary contacts e instantaneous contact e leading contact e leading contact dentification number and letter for switching elements fastening method e side-by-side mounting height 60 Hz conventional 2 2 4 60 Hz conventional 2 2 4 60 Hz	control supply voltage frequency	
control version of the switch operating mechanism number of NC contacts for auxiliary contacts instantaneous contact lagging switching number of NO contacts for auxiliary contacts instantaneous contact leading contact leading contact leading contact dentification number and letter for switching elements fastening method leading method leading contact screw fixing Yes height conventional conventional conventional conventional 2 2 4 Conventional A Screw fixing Yes height conventional 2 4 Conventional A Screw fixing Yes height 272 mm	1 rated value	50 Hz
number of NC contacts for auxiliary contacts 2 • instantaneous contact 2 • lagging switching 0 number of NO contacts for auxiliary contacts Instantaneous contact • instantaneous contact 2 • leading contact 0 identification number and letter for switching elements 22 fastening method screw fixing • side-by-side mounting Yes height 272 mm	2 rated value	60 Hz
 instantaneous contact lagging switching number of NO contacts for auxiliary contacts instantaneous contact leading contact leading contact identification number and letter for switching elements screw fixing side-by-side mounting height 22 272 mm 	control version of the switch operating mechanism	conventional
 lagging switching number of NO contacts for auxiliary contacts instantaneous contact leading contact leading contact identification number and letter for switching elements screw fixing side-by-side mounting height 0 22 72 mm 	number of NC contacts for auxiliary contacts	2
number of NO contacts for auxiliary contacts • instantaneous contact • leading contact • leading contact identification number and letter for switching elements fastening method • side-by-side mounting • side-by-side mounting height 22 72 mm	 instantaneous contact 	2
 instantaneous contact leading contact identification number and letter for switching elements fastening method side-by-side mounting height 22 22 22 32 42 43 44 45 47 47	lagging switching	0
● leading contact 0 identification number and letter for switching elements 22 fastening method screw fixing ● side-by-side mounting Yes height 272 mm	number of NO contacts for auxiliary contacts	
identification number and letter for switching elements fastening method • side-by-side mounting Yes height 22 272 mm	 instantaneous contact 	2
fastening method screw fixing ● side-by-side mounting Yes height 272 mm	leading contact	0
• side-by-side mounting Yes height 272 mm	identification number and letter for switching elements	22
height 272 mm	fastening method	screw fixing
	side-by-side mounting	Yes
width 266 mm	height	272 mm
	width	266 mm
depth 225.5 mm	depth	225.5 mm
type of electrical connection	type of electrical connection	
• for main current circuit screw-type terminals	 for main current circuit 	screw-type terminals
• for auxiliary and control circuit screw-type terminals	 for auxiliary and control circuit 	screw-type terminals
urther information	Further information	

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3TK1542-0AF0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TK1542-0AF0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3TK1542-0AF0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TK1542-0AF0&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3TK154

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TK1542-0AF0&objecttype=14&gridview=view1

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