## **SIEMENS**

Data sheet 3TK1742-0AU0



Contactor, AC-1, 4-pole, 1000 A, main contacts 4 NO, Auxiliary contacts 2 NO + 2 NC, AC operation 230...240 V AC, 50 Hz

Figure similar

reference code according to IEC 81348-2         Q           Substance Prohibitance (Date)         07/01/2008           ambient temperature during operation         -25 +55 °C           number of ND contacts for main contacts         4           number of NC contacts for main contacts         0           operational current         4           • at AC-1 at 400 V         -           — at ambient temperature 40 °C rated value         1 000 A           • at AC-3 at 400 V rated value         700 A           operating power         • at AC-1 at 400 V rated value         370 kW           type of voltage of the control supply voltage         AC           control supply voltage at AC         -         at 50 Hz           • at 50 Hz rated value         230 240 V         -           control supply voltage frequency         • 1 rated value         50 Hz         -           • 17 rated value         50 Hz         -	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 700 A  • at AC-3 at 400 V rated value 700 A  operating power  • at AC-3 at 400 V rated value 655 kW  • at AC-3 at 400 V rated value 370 kW  type of voltage of the control supply voltage AC  • at 50 Hz rated value 230 240 V  control supply voltage at AC  • at 50 Hz rated value 50 Hz  • 2 rated value 50 Hz  control version of the switch operating mechanism conventional  number of NC contacts for auxiliary contacts 2  • instantaneous contact 2 • leaging switching 0  number of NC contacts for auxiliary contacts  • instantaneous contact 2 • leading contact 0  ledentification number and letter for switching elements 22  fastening method 526 mm  • side-by-side mounting Yes  height 272 mm  width 266 mm  depth 255.5 mm  type of electrical connection  • for main current circuit 5crew-type terminals  • for auxiliary and control circuit 5crew-type terminals	reference code according to IEC 81346-2	Q
number of NC contacts for main current circuit  number of NC contacts for main contacts  1 0  operational current  at AC-1 at 400 V  at ambient temperature 40 °C rated value  to 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  operating power  at AC-1 at 400 V rated value  other of NC contacts for auxiliary contacts  instantaneous contact  leading contact  et side-by-side mounting  width  depth  type of electrical connection  for auxiliary and control circuit  screw-type terminals  screw-type terminals	Substance Prohibitance (Date)	07/01/2006
number of NO contacts for main contacts 0 number of NC contacts for main contacts 0 operational current  • at AC-1 at 400 V  —at ambient temperature 40 °C rated value 700 A  • at AC-3 at 400 V rated value 700 A  • at AC-3 at 400 V rated value 655 kW  • at AC-3 at 400 V rated value 370 kW  type of voltage of the control supply voltage AC  • at 50 Hz rated value 230 240 V  control supply voltage frequency  • 1 rated value 50 Hz  • 2 rated value 50 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 NO contacts for auxiliary contacts  • leading contact  detailing contact  instantaneous contact 0  cledintification number and letter for switching elements 22  fastening method 50 km  • side-by-side mounting 727 mm  width 266 mm  depth  type of electrical connection  • for main current circuit 50 crew-type terminals  • for auxiliary and control circuit 50 crew-type terminals	ambient temperature during operation	-25 +55 °C
number of NC contacts for main contacts  operational current  at AC-1 at 400 V  — at ambient temperature 40 °C rated value  700 A  operating power  at AC-1 at 400 V rated value  700 A  operating power  at AC-1 at 400 V rated value  370 kW  type of voltage of the control supply voltage  control supply voltage at AC  at 50 Hz rated value  230 240 V  control supply voltage frequency  1 rated value  50 Hz  2 rated value  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  lagging switching  number of NO contacts for auxiliary contacts  instantaneous contact  lagging switching  number of NO contacts for auxiliary contacts  instantaneous contact  lagging switching  number of NO contacts for auxiliary contacts  instantaneous contact  lagging switching  number of NO contacts for auxiliary contacts  instantaneous contact  lagging switching  number of NO contacts for auxiliary contacts  instantaneous contact  lagging switching  number of NO contacts for auxiliary contacts  instantaneous contact  lagging switching  number of NO contacts for auxiliary contacts  instantaneous contact  lagging switching  number of NO contacts for auxiliary contacts  instantaneous contact  lagging switching  number of NO contacts for auxiliary contacts  instantaneous contact  lagging switching  number of NO contacts for auxiliary contacts  instantaneous contact  lagging switching  number of NO contacts for auxiliary contacts  instantaneous contact  lagging switching  number of NO contacts for auxiliary contacts  instantaneous contact  lagging switching  number of NO contacts for auxiliary contacts  instantaneous contact  lagging switching  number of NO contacts for auxiliary contacts  lagging switching  number of NO contacts for auxiliary contacts  lagging switching  number of NO contacts for auxiliary contacts  lagging switching  number of NO contacts for auxiliary contacts  lagging s	number of poles for main current circuit	4
operational current  at AC-1 at 400 V  — at ambient temperature 40 °C rated value  at AC-3 at 400 V rated value  700 A  operating power  at AC-1 at 400 V rated value  655 kW  at AC-3 at 400 V rated value  370 kW  type of voltage of the control supply voltage  AC  control supply voltage at AC  at 50 Hz rated value  50 Hz  control supply voltage frequency  1 rated value  50 Hz  2 rated value  50 Hz  control version of the switch operating mechanism  conventional  number of NC contacts for auxiliary contacts  instantaneous contact  lagging switching  0  number of NO contacts for auxiliary contacts  instantaneous contact  2  lagging switching  0  number of NO contacts for auxiliary contacts  instantaneous contact  2  sealing contact  0  identification number and letter for switching elements  22  fastening method  side-by-side mounting  Yes  height  272 mm  width  286 mm  type of electrical connection  for auxiliary and control circuit  screw-type terminals  655 kW  700 A  700 A	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 700 A  perating power  at AC-3 at 400 V rated value 655 kW  at AC-3 at 400 V rated value 370 kW  type of voltage of the control supply voltage AC  control supply voltage at AC  at 50 Hz rated value 230 240 V  control supply voltage frequency  1 rated value 50 Hz  2 rated value 50 Hz  control version of the switch operating mechanism  number of NC contacts for auxiliary contacts   lagging switching   0  number of NC contacts for auxiliary contacts   lagging switching   0  number of NC contacts for auxiliary contacts   lagding contact   2   leading contact   3	number of NC contacts for main contacts	0
- at ambient temperature 40 °C rated value  • 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 50 Hz rated value  control supply voltage at AC  • at 50 Hz rated value  • 230 240 V  control supply voltage frequency  • 1 rated value  • 2 rated value  50 Hz  control version of the switch operating mechanism  number of NC contacts for auxiliary contacts  • instantaneous contact  • leading contact  • leading contact  • leading contact  • side-by-side mounting  yes  height  width  225.5 mm  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  screw-type terminals	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  at AC-3 at 400 V rated value  370 kW  type of voltage of the control supply voltage  AC  control supply voltage at AC  at 50 Hz rated value  230 240 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  instantaneous contact  lagging switching  number of NO contacts for auxiliary contacts  instantaneous contact  lagging switching  number of NO contacts for suxiliary contacts  instantaneous contact  cleading contact  dentification number and letter for switching elements  22  fastening method  screw fixing  elide-by-side mounting  Yes  height  272 mm  width  depth  225.5 mm  type of electrical connection  of or main current circuit  screw-type terminals  screw-type terminals	• at AC-1 at 400 V	
operating power  • at AC-1 at 400 V rated value	<ul> <li>at ambient temperature 40 °C rated value</li> </ul>	1 000 A
at AC-1 at 400 V rated value at AC-3 at 400 V rated value 370 kW  type of voltage of the control supply voltage AC  control supply voltage at AC at 50 Hz rated value 230 240 V  control supply voltage frequency 1 rated value 50 Hz 2 rated value 50 Hz 2 rated value control version of the switch operating mechanism conventional number of NC contacts for auxiliary contacts instantaneous contact lagging switching 0 number of NO contacts for auxiliary contacts instantaneous contact leading contact leading contact leading contact leading contact sorted walle screw fixing screw fixing 4 side-by-side mounting yes height width 266 mm depth type of electrical connection for main current circuit for auxiliary and control circuit screw-type terminals	• at AC-3 at 400 V rated value	700 A
* at AC-3 at 400 V rated value  type of voltage of the control supply voltage  control supply voltage at AC     * at 50 Hz rated value  control supply voltage frequency     * 1 rated value     * 230 240 V  control supply voltage frequency     * 1 rated value     * 2 rated value     * 50 Hz     * 2 rated value     * 2 rated value     * 50 Hz  control version of the switch operating mechanism     rumber of NC contacts for auxiliary contacts     * instantaneous contact     * lagging switching     * 0  number of NO contacts for auxiliary contacts     * instantaneous contact	operating power	
type of voltage of the control supply voltage at AC  ontrol supply voltage at AC  ontrol supply voltage frequency  ontrol supply vol	• at AC-1 at 400 V rated value	655 kW
control supply voltage at AC  at 50 Hz rated value  230 240 V  control supply voltage frequency  1 rated value  50 Hz  50 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  leading contact  leading contact  leading contact  identification number and letter for switching elements  screw fixing  viside-by-side mounting  reference  beight  272 mm  width  depth  depth  type of electrical connection  for main current circuit  for auxiliary and control circuit  screw-type terminals  conventional  20  21  22  230 240 V  24  50 Hz  60	• at AC-3 at 400 V rated value	370 kW
at 50 Hz rated value  control supply voltage frequency  1 rated value  2 rated value  5 0 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  identification number and letter for switching elements  side-by-side mounting  respectively.  at a screw fixing  yes  height  type of electrical connection  for main current circuit  for auxiliary and control circuit  screw-type terminals  screw-type terminals	type of voltage of the control supply voltage	AC
control supply voltage frequency	control supply voltage at AC	
<ul> <li>1 rated value</li> <li>2 rated value</li> <li>50 Hz</li> <li>control version of the switch operating mechanism</li> <li>number of NC contacts for auxiliary contacts</li> <li>i instantaneous contact</li> <li>lagging switching</li> <li>lagging switching</li> <li>number of NO contacts for auxiliary contacts</li> <li>i instantaneous contact</li> <li>i instantaneous contact</li> <li>leading contact</li> <li>leading contact</li> <li>identification number and letter for switching elements</li> <li>screw fixing</li> <li>side-by-side mounting</li> <li>yes</li> <li>height</li> <li>272 mm</li> <li>width</li> <li>depth</li> <li>226.6 mm</li> <li>depth</li> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>screw-type terminals</li> <li>screw-type terminals</li> </ul>	at 50 Hz rated value	230 240 V
o 2 rated value     control version of the switch operating mechanism     number of NC contacts for auxiliary contacts     o instantaneous contact     o lagging switching     number of NO contacts for auxiliary contacts     o instantaneous contact     o instantaneous contact     o leading contact     o leading contact     identification number and letter for switching elements     o side-by-side mounting     ves      height     vidth     depth     type of electrical connection     o for main current circuit     o for auxiliary and control circuit     screw-type terminals     conventional	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  identification number and letter for switching elements screw fixing side-by-side mounting Yes  height 272 mm  width 266 mm  depth 225.5 mm  type of electrical connection for main current circuit screw-type terminals screw-type terminals	1 rated value	50 Hz
number of NC contacts for auxiliary contacts  instantaneous contact  lagging switching  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  yes  height  272 mm  width  depth  226 mm  type of electrical connection  for main current circuit  for auxiliary and control circuit  screw-type terminals  for auxiliary and control circuit  screw-type terminals	2 rated value	50 Hz
<ul> <li>instantaneous contact</li> <li>lagging switching</li> <li>number of NO contacts for auxiliary contacts</li> <li>instantaneous contact</li> <li>leading contact</li> <li>leading contact</li> <li>leading method</li> <li>screw fixing</li> <li>side-by-side mounting</li> <li>yes</li> <li>height</li> <li>width</li> <li>depth</li> <li>225.5 mm</li> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>screw-type terminals</li> </ul>	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         fastening method             screw fixing             side-by-side mounting             Yes          height             272 mm          width             depth             225.5 mm          type of electrical connection             for main current circuit             screw-type terminals             for auxiliary and control circuit             screw-type terminals	number of NC contacts for auxiliary contacts	2
number of NO contacts for auxiliary contacts  instantaneous contact leading contact leading contact leading contact leading mumber and letter for switching elements  fastening method screw fixing Yes height 272 mm width 266 mm leading leading contact  type of electrical connection for main current circuit for auxiliary and control circuit screw-type terminals screw-type terminals	<ul> <li>instantaneous contact</li> </ul>	2
<ul> <li>instantaneous contact</li> <li>leading contact</li> <li>identification number and letter for switching elements</li> <li>fastening method</li> <li>side-by-side mounting</li> <li>Yes</li> <li>height</li> <li>width</li> <li>depth</li> <li>220</li> <li>mm</li> <li>width</li> <li>266 mm</li> <li>depth</li> <li>225.5 mm</li> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>screw-type terminals</li> <li>for auxiliary and control circuit</li> </ul>	lagging switching	0
eleading contact     identification number and letter for switching elements     fastening method	number of NO contacts for auxiliary contacts	
identification number and letter for switching elements  fastening method	<ul> <li>instantaneous contact</li> </ul>	2
fastening method  • side-by-side mounting  Nes  height  272 mm  width  266 mm  depth  225.5 mm  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  screw-type terminals  • rew-type terminals	leading contact	0
<ul> <li>side-by-side mounting</li> <li>height</li> <li>width</li> <li>depth</li> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>yes</li> <li>xerew-type terminals</li> <li>screw-type terminals</li> </ul>	identification number and letter for switching elements	22
height 272 mm  width 266 mm  depth 225.5 mm  type of electrical connection  • for main current circuit screw-type terminals  • for auxiliary and control circuit screw-type terminals	fastening method	screw fixing
width 266 mm  depth 225.5 mm  type of electrical connection  • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals	side-by-side mounting	Yes
depth     225.5 mm       type of electrical connection     • for main current circuit     screw-type terminals       • for auxiliary and control circuit     screw-type terminals	height	272 mm
type of electrical connection  • for main current circuit screw-type terminals  • for auxiliary and control circuit screw-type terminals	width	266 mm
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>screw-type terminals</li> <li>screw-type terminals</li> </ul>	depth	225.5 mm
• for auxiliary and control circuit screw-type terminals	type of electrical connection	
·	• for main current circuit	screw-type terminals
Further information	<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
	Further information	

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

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$ 

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=3TK1742-0AU0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TK1742-0AU0

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

https://support.industry.siemens.com/cs/ww/en/ps/3TK1742-0AU0

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3TK1742-0AU0&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3TK1742-0AU0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TK1742-0AU0&objecttype=14&gridview=view1

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