SIEMENS

Data sheet

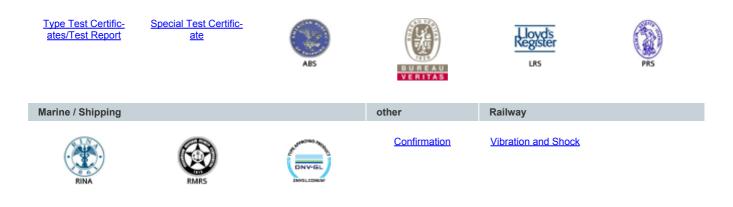
3RA2220-1GB24-0AK6



FUSELESS LOAD FEEDER REVERSING OPERATION, AC 400V, S0 4.5...6.3A, AC 110/120V 50/60HZ SCREW TERMINAL FOR RAIL MOUNTING, W. MOUNTING RAIL ADAPTER TYPE OF ASSIGNMENT 2,IQ = 150KA (ALSO FULFILLS TYPE OF ASSIGNMENT 1) 1NO+1NC (CONTACTOR)

product brand name SIRUS product designation Reversing starter design of the product for standard rail or screw mounting manufacturer's article number SIRT2024-1AK60 of the supplied chrout-breakers SRV2011-1GA10 of the supplied chrout-breakers SRV2023-1BE1 of the supplied link module SRV2023-1BE1 of the supplied link module SRV2023-1BE1 size of the circut-breaker S00 size of the direcut-breaker S00 size of the direcut-breaker S00 supplied link module S00 supplied provides or pollution 3 at AC rated value 690 V supplied resistance rated value 690 V supplied chrout-breaker S0 supplied chrout-breaker S0 supplied chrout-breaker S00 supplied provides or pollution 3 at AC rated value 690 V supplied provides or pollution 3 of contactor typical 100 000 00 type or dassignment 2 20+60 °C of during poreration -20+60 °C		
design of the product for standard rail or screw mounting manufacturer's article number BTZ024-1AK80 • of the supplied circuit-breakers BRY2011-1GA10 • of the supplied line drivuit-breakers BRY2011-1GA10 • of the supplied line module BRX2023-1BB1 • of the supplied line module BRX2023-1BB1 • of the supplied line module BRX2023-1BB1 • of the circuit-breaker S00 size of the circuit-breaker S00 size of the dreder S0 supplied line design end teader S00 supplied presistance rated value 68V supplied presistance rated value 68V supplied circuit-breaker S0 supplied circuit-breaker S0 supplied circuit-breaker S0 supplied presistance rated value 68V supplied circuit-breaker S0 supplied presistance rated value 600 V0 dividit generation 2 substance Prohibitance (Date) 20 +60 °C - during storage -50 +80 °C - during storage -50	product brand name	SIRIUS
manufacturer's article number BR12024-1AK60 • of the supplied contactor BR12024-1AK60 • of the supplied RH assembly kit BR22022-1BB1 • Size of the circul-breaker S0 • store of load feeder S0 • surge votage resistance according to EC 60068-2-27 Gg /11 ms • mechanical service life (operating cycles) of contactor typical 10000 000 Vapor assignment 2 Substance Prohibitance (Date) • during storage -0 +60 °C +60 °C • during storage -	product designation	Reversing starter
• of the supplied contactor SRT2024-1AK60 • of the supplied incluib-breakers SRX2011-1GA10 • of the supplied ink module SRA2023-1BB1 • of the supplied ink module SRA2023-1BB1 • of the circuit-breaker S00 size of to dife ofeor S0 insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 690 V surge voltage resistance rated value 61V shock resistance according to IEC 60068-277 69 (11 ms mechanical service life (operating cycles) of contactor typical 1000 000 type of assignment 2 Substance Prohibitance (Date) 1000 12008 Ambient conditions 1000 12008 anditi temperature - • during speration -20	design of the product	for standard rail or screw mounting
• of the supplied circuit-breakersBRV2011-1GA10• of the supplied link moduleSRA2923-1BA1• of the supplied link moduleSRA2923-1BA1General technical dataS00size of the circuit-breakerS00size of load feederS00 VInsulation voltage with degree of pollution 3 at AC rated value680 Vsurge voltage resistance rated value680 Vstree traited service life (operating cycles) of contactor typical10 000 000type of assignment2Substance Prohibitance (Date)1001/2009Ambient conditions	manufacturer's article number	
• of the supplied RH assembly kit SRA2923-1BB1 • of the supplied link module SRA2921-1AA00 Control technical data Size of the circuit-breaker S0 size of the circuit-breaker S0 insulation voltage with degree of pollution 3 at AC rated value 600 V surge voltage resistance rated value 64V surge voltage resistance rated value 64V surge voltage resistance rated value 7 surge voltage resistance rated value 7 surge voltage resistance rated value 7 surge voltage resistance (Date) 1000 000 type of assignment 2 Substance Prohibitance (Date) 1001/2009 Ambient conditions ambient temperature - • during storage -50 +60 °C • during transport -50 +60 °C	 of the supplied contactor 	<u>3RT2024-1AK60</u>
• of the supplied link module 3BA2821-1AA00 General technical data size of the circuit-breaker S00 size of the dircuit-breaker S0 insulation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance according to IEC 50068-2:27 6g/ 11 ms mechanical service life (operating cycles) of contactor typical 10 000 000 type of assignment 2 Substance Prohibitance (Date) 10/01/2009 Ambient conditions - ambient temperature - • during operation -20 +60 °C • during transport -50 +80 °C • during transport	 of the supplied circuit-breakers 	<u>3RV2011-1GA10</u>
General technical data 500 size of the circuit-breaker 500 size of load feeder 600 V insultation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 6g / 11 ms mechanical service life (operating cycles) of contactor typical 10 000 000 type of assignment 2 Substance Prohibitance (Date) 10/01/2009 Ambient conditions - ambient temperature - • during storage -50 +60 °C • during transport -50 +80 °C • during transport -50 +80 °C Main circuit 3 Inumber of poles for main current circuit 3 design of the switching contact electromechanical adjustable current response value current of the current-degendent overload release 45 6.3 A operating routage - • rated value 690 V operating requency rated value 50 60 Hz operating requency rated value 2 200 W cotrol ci	 of the supplied RH assembly kit 	<u>3RA2923-1BB1</u>
size of the circuit-breaker S00 size of load feeder S0 insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 64 kV shock resistance according to IEC 60068-2:27 6g / 11 ms mechanical service life (operating cycles) of contactor typical 10 000 000 type of assignment 2 Substance Prohibitance (Date) 10/01/2009 Ambient conditions -20 +60 °C • during paration -20 +60 °C • during transport -50 +80 °C • at orcute electromechanical adjustable current exponse value current of the current- electromechanical operating voltage • at AC-3 rated value • at AC-3 rated value 690 V • 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	 of the supplied link module 	<u>3RA2921-1AA00</u>
size of load feeder S0 insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2:77 6g / 11 ms mechanical service life (operating cycles) of contactor typical 10 000 000 type of assignment 2 Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2 ambient temperature - • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C • during storage -50 +80 °C • during transport 4.5 6.3 A • at AC-3 at 400 V	General technical data	
Insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 6g / 11 ms mechanical service life (operating cycles) of contactor typical 10 000 000 type of assignment 2 Substance Prohibitance (Date) 10/01/2009 Ambient conditions ambient temperature • during operation -20 +60 °C • during torage -50 +80 °C • during torage of the switching contact electromechanical adjustable current response value current of the current- dependent overload release 690 V • at AC-3 rated value 690 V • at AC-3 rated value 690 V • at AC-3 rated value 690 V • at AC-3 - at 400 V rated value • at AC-3 - at 400 V rated value • at AC-3 - at 400 V rate	size of the circuit-breaker	S00
surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 6g / 11 ms mechanical service life (operating cycles) of contactor typical 10 000 000 type of assignment 2 Substance Prohibitance (Date) 10/01/2009 Ambient conditions amblent temperature • during operation -20 +60 °C • during strange -50 +80 °C during transport -50 +80 °C Main circuit number of poles for main current circuit 3 design of the switching contact equation to vericad release operating voltage • rated value 690 V • e at AC-3 rated value maximum • at AC-3 at 400 V rated value • at 40 V rated value • at 50 50 Hz rated value • at 50	size of load feeder	SO
shock resistance according to IEC 60068-2-27 6g / 11 ms mechanical service life (operating cycles) of contactor typical 10 000 000 type of assignment 2 Substance Prohibitance (Date) 10/1/2009 Ambient conditions - amblent temperature - • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C Main circuit 3 number of poles for main current circuit 3 design of the switching contact electromechanical adjustable current response value current of the current- 4.5 6.3 A operating voltage -0 V • at AC-3 rated value 690 V • at AC-3 rated value -60 Hz operating power	insulation voltage with degree of pollution 3 at AC rated value	690 V
mechanical service life (operating cycles) of contactor typical 10 000 000 type of assignment 2 Substance Prohibitance (Date) 10/01/2009 Ambient conditions - ambient temperature - • during operation -20 +60 °C • during transport -50 +80 °C • during transport -50 +80 °C • during transport -50 +80 °C Main circuit 3 number of poles for main current circuit 3 design of the switching contact electromechanical adjustable current response value current of the current- 4.5 6.3 A operating voltage 690 V • at AC-3 rated value maximum 690 V • at AC-3 rated value maximum 690 V • at AC-3 rated value 4.9 A operating power • at AC-3 - at 400 V rated value 2 200 W Control supply voltage at AC 2 200 W Control supply voltage at AC 2 200 W	surge voltage resistance rated value	6 kV
type of assignment 2 Substance Prohibitance (Date) 10/01/2009 Ambient conditions	shock resistance according to IEC 60068-2-27	6g / 11 ms
Junction 10/01/2009 Ambient conditions ambient temperature • during operation • during storage • during transport • electromechanical adjustable current response value current of the current- dependent overload release • operating voltage • at AC-3 rated value • electromechanical	mechanical service life (operating cycles) of contactor typical	10 000 000
Ambient conditions ambient temperature • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C Main circuit 3 number of poles for main current circuit 3 design of the switching contact electromechanical adjustable current response value current of the current- dependent overload release 690 V operating voltage 50 60 Hz operating frequency rated value 690 V • at AC-3 rated value 690 V • at AC-3 at 400 V rated value 4.9 A operating power -at 400 V rated value • at AC-3 2 200 W Control circuit/ Control 2 200 W	type of assignment	2
amblent temperature -20 +60 °C • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C Main circuit 3 number of poles for main current circuit 3 design of the switching contact electromechanical adjustable current response value current of the current-dependent overload release 45 6.3 A operating voltage 690 V • at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz operating frequency rated value 4.9 A operating power at AC-3 • at AC-3 2 200 W Control circuit/ Control 2 200 W	Substance Prohibitance (Date)	10/01/2009
• during operation-20 +60 °C• during storage-50 +80 °C• during transport-50 +80 °CMain circuit3number of poles for main current circuit3design of the switching contactelectromechanicaladjustable current response value current of the current- dependent overload release4.5 6.3 Aoperating voltage690 V• at AC-3 rated value690 V• at AC-3 rated value690 Voperating frequency rated value50 60 Hz• at AC-3 at 400 V rated value4.9 Aoperating power-• at AC-32200 Wcontrol circuit/ Control2200 WControl supply voltage at AC110 V	Ambient conditions	
during storage • during transport-50 +80 °CMain circuit-50 +80 °CMain circuit3number of poles for main current circuit3design of the switching contactelectromechanicaladjustable current response value current of the current- dependent overload release4.5 6.3 Aoperating voltage • rated value690 Voperating requency rated value690 Voperating frequency rated value50 60 Hzoperating power • at AC-3 at 400 V rated value4.9 Aoperating power • at AC-3 — at 400 V rated value2 200 WControl circuit/ Control110 V	ambient temperature	
e during transport-50 +80 °CMain circuit3number of poles for main current circuit3design of the switching contactelectromechanicaladjustable current response value current of the current- dependent overload release4.5 6.3 Aoperating voltage690 V• at AC-3 rated value maximum690 Voperating frequency rated value50 60 Hzoperating power50 60 Hz• at AC-3 - at 400 V rated value4.9 Aoperating power2200 WControl circuit/ Control2200 WControl supply voltage at AC • at 50 Hz rated value110 V	during operation	-20 +60 °C
Main circuit 3 number of poles for main current circuit 3 design of the switching contact electromechanical adjustable current response value current of the current- dependent overload release 4.5 6.3 A operating voltage 690 V • rated value 690 V • at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz operating power 4.9 A • at AC-3 – at 400 V rated value 2 200 W 2 200 W Control circuit/ Control 110 V	during storage	-50 +80 °C
number of poles for main current circuit 3 design of the switching contact electromechanical adjustable current response value current of the current- dependent overload release 4.5 6.3 A operating voltage 690 V • rated value 690 V • at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz operating power 4.9 A • at AC-3	during transport	-50 +80 °C
design of the switching contact electromechanical adjustable current response value current of the current- dependent overload release 4.5 6.3 A operating voltage 690 V • at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz operating power 50 60 Hz • at AC-3 at 400 V rated value 4.9 A operating power 2 200 W • at AC-3 2 200 W Control circuit/ Control 110 V	Main circuit	
adjustable current response value current of the current- dependent overload release4.5 6.3 Aoperating voltage4.5 6.3 A• rated value690 V• at AC-3 rated value maximum690 Voperating frequency rated value50 60 Hzoperating nequency rated value4.9 Aoperating power • at AC-3 — at 400 V rated value2 200 WControl circuit/ Control2 200 Wcontrol supply voltage at AC • at 50 Hz rated value110 V	number of poles for main current circuit	3
dependent overload release	design of the switching contact	electromechanical
• rated value690 V• at AC-3 rated value maximum690 Voperating frequency rated value50 60 Hzoperational current-• at AC-3 at 400 V rated value4.9 Aoperating power-• at AC-3 at 400 V rated value2 200 WControl circuit/ ControlControl supply voltage at AC• at 50 Hz rated value110 V		4.5 6.3 A
• at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz operational current - • at AC-3 at 400 V rated value 4.9 A operating power - • at AC-3 - - at 400 V rated value 2 200 W Control circuit/ Control - control supply voltage at AC 110 V	operating voltage	
operating frequency rated value 50 60 Hz operational current 4.9 A • at AC-3 at 400 V rated value 4.9 A operating power - • at AC-3 - — at 400 V rated value 2 200 W Control circuit/ Control 2 200 W Control supply voltage at AC 110 V	 rated value 	690 V
operational current 4.9 A • at AC-3 at 400 V rated value 4.9 A operating power - • at AC-3 - - at 400 V rated value 2 200 W Control circuit/ Control 2 200 W Control supply voltage at AC - • at 50 Hz rated value 110 V	 at AC-3 rated value maximum 	690 V
• at AC-3 at 400 V rated value 4.9 A operating power - • at AC-3 - - at 400 V rated value 2 200 W Control circuit/ Control 2 200 W control supply voltage at AC - • at 50 Hz rated value 110 V	operating frequency rated value	50 60 Hz
operating power	operational current	
	 at AC-3 at 400 V rated value 	4.9 A
	operating power	
Control circuit/ Control control supply voltage at AC • at 50 Hz rated value 110 V	• at AC-3	
control supply voltage at AC 110 V	— at 400 V rated value	2 200 W
• at 50 Hz rated value 110 V	Control circuit/ Control	
	control supply voltage at AC	
• at 50 Hz rated value 88 121 V	• at 50 Hz rated value	110 V
	• at 50 Hz rated value	88 121 V

• at 60 Hz rated value	120 V
at 60 Hz rated value	96 132 V
apparent holding power of magnet coil at AC	8.5 VA
Auxiliary circuit	0.5 VA
	Yes
product extension auxiliary switch	res
Protective and monitoring functions	0140040
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	4.0.4
at 480 V rated value	4.8 A
yielded mechanical performance [hp]	
for 3-phase AC motor	4 hz
- at 200/208 V rated value	1 hp
- at 220/230 V rated value	1.5 hp
- at 460/480 V rated value	3 hp
— at 575/600 V rated value	5 hp
Short-circuit protection	Vac
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
conditional short-circuit current (Iq)	450.000 A
• at 400 V according to IEC 60947-4-1 rated value	150 000 A
Installation/ mounting/ dimensions	
mounting position	vertical
fastening method	On adapter for screw and snap-on mounting on 35 mm DIN rail
height	265 mm
width	90 mm
depth	120 mm
required spacing	
 for grounded parts 	
— forwards	32 mm
— backwards	0 mm
— upwards	50 mm
— at the side	10 mm
— downwards	10 mm
 for live parts 	
— forwards	32 mm
— backwards	
	0 mm
— upwards	0 mm 50 mm
— upwards — downwards	
	50 mm
— downwards	50 mm 10 mm
— downwards — at the side	50 mm 10 mm
downwards at the side Connections/ Terminals	50 mm 10 mm
downwards at the side Connections/ Terminals type of electrical connection	50 mm 10 mm 10 mm
	50 mm 10 mm 10 mm
	50 mm 10 mm 10 mm screw-type terminals
downwards at the side Connections/ Terminals type of electrical connection • for main current circuit Safety related data B10 value with high demand rate according to SN 31920	50 mm 10 mm 10 mm screw-type terminals
	50 mm 10 mm 10 mm screw-type terminals 1 000 000
downwards at the side Connections/ Terminals type of electrical connection • for main current circuit Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with high demand rate according to SN 31920 Certificates/ approvals	50 mm 10 mm 10 mm screw-type terminals 1 000 000 73 %
 downwards at the side Connections/ Terminals type of electrical connection for main current circuit Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures 	50 mm 10 mm 10 mm screw-type terminals 1 000 000 73 %
downwards at the side Connections/ Terminals type of electrical connection • for main current circuit Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with high demand rate according to SN 31920 Certificates/ approvals	50 mm 10 mm 10 mm screw-type terminals 1 000 000 73 % For use in hazard- ous locations Declaration of Conformity
	50 mm 10 mm 10 mm screw-type terminals 1 000 000 73 % Declaration of Conformity UK Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" Im



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=3RA2220-1GB24-0AK6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-1GB24-0AK6

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1GB24-0AK6

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

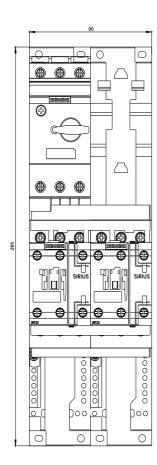
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-1GB24-0AK6&lang=en

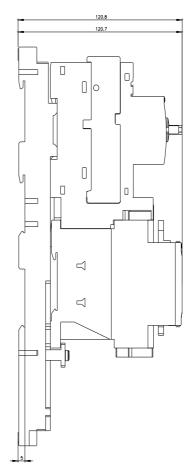
Characteristic: Tripping characteristics, I²t, Let-through current

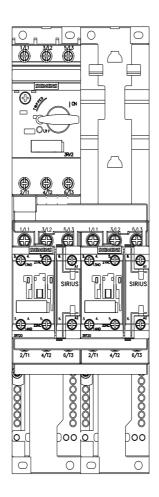
https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1GB24-0AK6/char

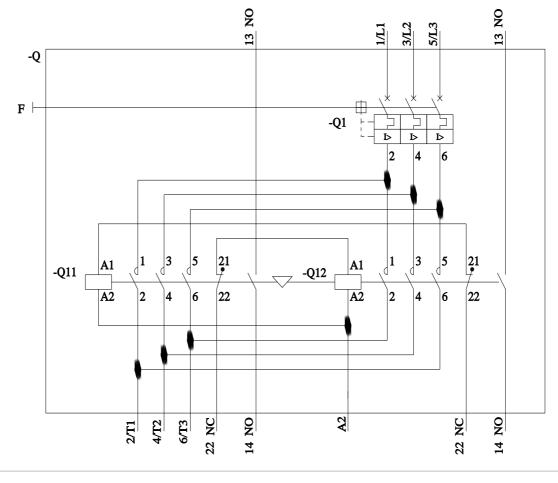
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-1GB24-0AK6&objecttype=14&gridview=view1









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