SIEMENS

Data sheet

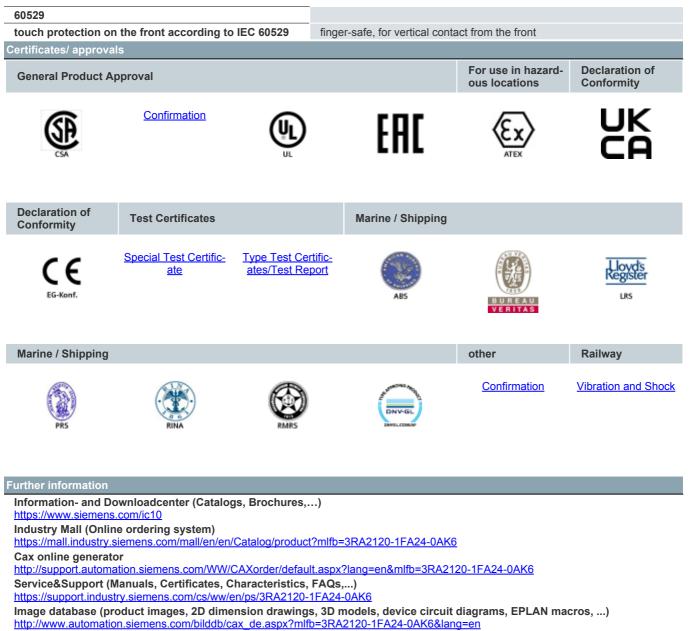
3RA2120-1FA24-0AK6



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S0 3.50...5.00 A 110/120 V AC, 50/60 Hz screw terminal for installation on standard mounting rail (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO+1 NC (contactor)

product brand name	SIRIUS
product brand name	non-fused load feeders 3RA2
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design of the product manufacturer's article number	direct starter
	2072024 14//20
of the supplied contactor	<u>3RT2024-1AK60</u>
of the supplied circuit-breakers	<u>3RV2021-1FA10</u>
of the supplied link module	<u>3RA2921-1AA00</u>
General technical data	
size of the circuit-breaker	S0
size of load feeder	S0
product extension auxiliary switch	Yes
insulation voltage with degree of pollution 3 at AC rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	6g / 11 ms
mechanical service life (switching 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 storage 	-50 +80 °C
 during transport 	-50 +80 °C
Main circuit	
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	3.5 5 A
operating voltage	
rated value	690 V
• 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	3.6 A
operating power at AC-3	
• at 400 V rated value	1 500 W
• at 500 V rated value	2 200 W
● at 690 V rated value	3 000 W

control supply voltage at AC 110 V • at 60 hz rated value 120 V apparent holding power of magnet coil at AC 5.5 VA Protective and monitoring functions 110 V design of the overload release unermal (bimedalle) design of the overload release unermal (bimedalle) erapparent holding functions 65 A full-load current (FLA) for 3-phase AC motor 4.8 A • at 400 V rated value 4.8 A • at 400 V rated value 4.5 A violad mechanical performance [hp] 0.17 hp • or single-phase AC motor - at 110*120 V rated value - at 202303 V rated value 0.5 hp • or single-phase AC motor - at 20230 V rated value - at 40400 V rated value 1 hp - at 20230 V rated value 1 hp - at 40400 V rated value 3 hp Product function short-circuit protection Yes design of the short-circuit protection Yes eta600 V according to ICE 00047-4-1 rated value 100 000 A • at 400 V according to ICE 00047-4-1 rated value 100 000 A • at 400 V according to ICE 0		
• at 00 Hz rated value 120 V apparent holding power of magnet coll at AC 85 VA Protective and monitoring functions CLASS 10 trip class CLASS 10 design of the overload release thermal (bimetallo) response value current of instantaneous sholt-circuit trip 65 A ULCSA runnes ULCSA runnes ULCSA runnes 4.8 A • at 600 V rated value 4.8 A • at 00 V rated value 0.17 hp • or at/phase AC motor 0.17 hp • or at 00-100 V rated value 0.17 hp • or at 00-2020 V rated value 0.17 hp • at 200/200 V rated value 1 hp • at 200/200 V rated value 1 hp • at 200/200 V rated value 1 hp • at 400-480 V rated value 3 hp Stort-Circuit protection Yes reduct uncernent hort circuit protection	control supply voltage at AC	440.14
apparent hoticing power of magnet coil at AC 8.5 VA Productions and monitoring functions CLASS 10 thermal (binnetallic) 6 design of the overload release 65 A transport Vietad value 65 A out 4.80 V rated value 4.8 A - at 410 V rated value 4.55 A vietade monitorial performance (hp) - of single-phase AC motor - at 110 /120 V rated value 0.17 hp - at 200238 V rated value 0.5 hp - of adveload V rated value 0.5 hp - of adveload V rated value 1 hp - at 220239 V rated value 3 hp - at 40400 V rated value 3 hp - at 40400 V rated value 3 hp - at 6574000 V rated value 3 hp product function short circuit protection Yes reduiting notionaling / dimensions wertical at 400 V according to IEC 6047-4-1 rated value 100 000 A testalization/ monitoring onto 35 mm standard mounting rail testalization/ model parts 0 mm - forwards 0 mm - forwards 0 mm		
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design of the overload rolease inemal (binetallic) response value current of instantaneous shot-circuit trip unit 65 A UICSA ratings Full-load current (FLA) for 3-phase AC motor • at 480 V rated value 4.8 A • at 600 V rated value 4.5 S A violad current (FLA) for 3-phase AC motor • at 110/120 V rated value 4.5 S A violad mechanical performance [bp] • for single-phase AC motor • at 110/120 V rated value 0.5 hp • in at 200/28 V rated value 1 hp - at 200/28 V rated value 1 hp - at 200/28 V rated value 3 hp 9 ind-circuit protection 9 west gets of the short-circuit trip magnetic conditional short circuit trip magnetic conditional short circuit trip 150 00 A • at 600 V according to IEC 6047-41 rated value 4000 A • at 600 V according to IEC 6047-41 rated value 153 000 A • at 600 V according to IEC 6047-41 rated value 160 000 A Instantiation mounting dimensions 100 mm mounting position serve and snap-on mounting onto 35 mm standard mounting rail height 97.1 mm required spacing <td< td=""><td></td><td>0140040</td></td<>		0140040
response value current of instantaneous short-circuit trip init 95 A full-Gad current (FLA) for 3-phase AC motor 4.8 A • et 4500 V rated value 4.55 A • full-Gad current (FLA) for 3-phase AC motor 4.55 A	· · ·	
unit UCSA ratings full-load current (FLA) for 3-phase AC motor 4.8 A • at 800 V rated value 4.55 A yielded mechanical performance [tip] • for single-phase AC motor - at 200 V rated value 0.17 hp - at 200 V rated value 0.5 hp • for single-phase AC motor 1 hp - at 200208 V rated value 0.5 hp • for 3-phase AC motor 1 hp - at 200208 V rated value 3 hp Short-circuit protection Yes design of the short-circuit trop magnetic conditional short-circuit protection Yes design of the short-circuit trop magnetic conditional short-circuit protection Yes mounting position screw and snap-on mounting onto 35 mm standard mounting rail fastening method screw and snap-on mounting onto 35 mm standard mounting rail height 197.1 mm required spacing 0 mm • for grounded parts 0 mm - obadwards 0 mm - upwards 30 mm - obadwards 0 mm		
UCSA ratings full-add current (FLA) for 3-phase AC motor • at 800 V rated value 4.8 A • at 800 V rated value 4.55 A • for single-phase AC motor 0.17 hp - at 1230 V rated value 0.5 hp • for 3-phase AC motor 1 hp - at 200208 V rated value 0.5 hp • for 3-phase AC motor 1 hp - at 200208 V rated value 1 hp - at 200208 V rated value 3 hp - at 375/600 V rated value 3 hp product function short-circuit protection Yes design of the short-circuit turrent (lq) 43500 A • at 600 V according to IEC 60947-4-1 rated value 1000 000 A Installation/ mounting/ dimension vertical mounting position vertical festening method 103 A mm width 45 mm - doph - at the side - backwards 0 mm		A 60
full-load current (FLA) for 3-phase AC motor 4.8 A • at 800 V rated value 4.8 A • at 800 V rated value 4.8 A • at 800 V rated value 4.8 A • for single-phase AC motor 0.17 hp - at 100/120 V rated value 0.5 hp • for 3-phase AC motor 1 hp - at 200208 V rated value 1 hp - at 200208 V rated value 3 hp - at 400480 V rated value 3 hp - at 400490 V rated value 3 hp - at 57560 V rated value 3 hp Short-circuit protection Yes design of the short-circuit protection Yes design of the short-circuit protection Yes mounting dimensions varical mounting position varical fastalizion/mounting/ dimensions varical mounting position varical - dowards 10 mm - at the side 9 mm - dowards 0 mm - dowards 0 mm - at the side 9 mm - dowards 0 mm - dowards 0 mm -		
• at 480 V rated value 4.8 Å • at 600 V rated value 4.55 Å • for single-phase AC motor 0.17 hp • at 230 V rated value 0.5 hp • for 3-phase AC motor 1 hp • at 2002708 V rated value 1 hp • at 2002708 V rated value 1 hp • at 2002708 V rated value 3 hp • at 2002708 V rated value 3 hp • at 375600 V rated value 3 hp • at 575600 V rated value 3 hp • at 590 V according to IEC 00947-4-1 rated value 4 000 Å • at 600 V according to IEC 00947-4-1 rated value 4 000 Å • at 600 V according to IEC 00947-4-1 rated value 5 3000 Å • at 600 V according to IEC 00947-4-1 rated value 1 000 000 Å • at 600 V according to IEC 00947-4-1 rated value 5 3000 Å • at 600 V according to IEC 00947-4-1 rated value 1 300 0Å • at 600 V according to IEC 00947-4-1 rated value 5 300 A • at 600 V according to IEC 00947-4-1 rated value 5 at 500 Å • for grounded parts 0 mm • for grounded parts 0 mm • for grounded parts 0 mm • for for live parts 10 mm<		
• st 600 V rated value 4.55 A yielded mechanical performance (hg) • for single-phase AC motor - at 110/120 V rated value 0.17 hp - at 220/200 V rated value 0.5 hp - at 220/200 V rated value 1 hp - at 220/200 V rated value 3 hp - at 220/200 V rated value 3 hp - at 460/480 V rated value 3 hp - at 60/480 V rated value 3 hp store function short circuit protection magnetic conditional short-circuit rated value 163 000 A - at 600 V according to IEC 60947-4-1 rated value 100 000 A i at 600 V according to IEC 60947-4-1 rated value 100 000 A i at 600 V according to IEC 60947-4-1 rated value 100 000 A i at 600 V according to IEC 60947-4-1 rated value 100 mm i at 600 V according to IEC 60947-4-1 rated value 100 000 A i at 600 V according to IEC 60947-4-1 rated value 100 mm i of or groun		4.8 A
 for single-phase AC motor - at 110/120 V rated value 0.5 hp for 3-phase AC motor - at 220 V rated value 0.5 hp for 3-phase AC motor - at 220/280 V rated value 1 hp - at 200/280 V rated value 1 hp - at 200/280 V rated value 3 hp Short-circuit protection Product function short-circuit protection at 5575600 V rated value 3 hp Short-circuit protection magnetic conditional short-circuit corrent (q) at 600 V according to IEC 60947-4-1 rated value 153 000 A at 600 V according to IEC 60947-4-1 rated value 150 000 A tatalator mounting/ dimensions mounting position vertical screw and snap-on mounting onto 35 mm standard mounting rail height 193 1 mm required spacing for grounded parts - forwards 0 mm - backwards 0 mm - at the side 9 mm - downwards 0 mm - backwards 0 mm - backwards 0		
 for single-phase AC motor - at 110/120 V rated value 0.5 hp for 3-phase AC motor - at 220 V rated value 0.5 hp for 3-phase AC motor - at 220/280 V rated value 1 hp - at 200/280 V rated value 1 hp - at 200/280 V rated value 3 hp Short-circuit protection Product function short-circuit protection at 5575600 V rated value 3 hp Short-circuit protection magnetic conditional short-circuit corrent (q) at 600 V according to IEC 60947-4-1 rated value 153 000 A at 600 V according to IEC 60947-4-1 rated value 150 000 A tatalator mounting/ dimensions mounting position vertical screw and snap-on mounting onto 35 mm standard mounting rail height 193 1 mm required spacing for grounded parts - forwards 0 mm - backwards 0 mm - at the side 9 mm - downwards 0 mm - backwards 0 mm - backwards 0	vielded mechanical performance [hp]	
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• for 3-phase AC motor - at 200/208 V rated value 1 hp - at 220/230 V rated value 1 hp - at 200/208 V rated value 3 hp - at 450/480 V rated value 3 hp - at 575/600 V rated value 3 hp Product function short circuit protection Yes - at 575/600 V rated value 4 magnetic conditional short-circuit curront (q) - at 650 V according to IEC 60947-4.1 rated value 4 000 A - at 550 V according to IEC 60947-4.1 rated value 100 000 A • at 500 V according to IEC 60947-4.1 rated value 100 000 A - at 550 V according to IEC 60947-4.1 rated value 100 000 A • at 400 V according to IEC 60947-4.1 rated value 100 000 A - at 550 V according to IEC 60947-4.1 rated value 100 000 A Installation' mounting rdimensions - vertical screw and snap-on mounting onto 35 mm standard mounting rail height 193.1 mm - for wards 0 mm • for wards 0 mm - onvards 0 mm • for wards 0 mm - onvards 0 mm • for wards 0 mm - onvards 0 mm • for live parts - forwards 0 mm - onvards	— at 230 V rated value	
	 for 3-phase AC motor 	
	— at 200/208 V rated value	1 hp
	— at 220/230 V rated value	
	— at 460/480 V rated value	
product function short circuit protection Yes design of the short-circuit trip magnetic conditional short-circuit current (lq) at 690 V according to IEC 60947-4-1 rated value 4 000 A at 400 V according to IEC 60947-4-1 rated value 153 000 A 100 000 A Installation/ mounting/ dimensions vertical screw and snap-on mounting onto 35 mm standard mounting rail height 193.1 mm 45 mm 45 mm width 45 mm 45 mm 45 mm depth 97.1 mm 193.1 mm 193.1 mm width 45 mm 40 mm 45 mm - forwards 10 mm 0 mm 30 mm - at the side 9 mm 10 mm 0 mm 30 mm - downwards 10 mm 0 mm 30 mm 9 mm 10 mm	— at 575/600 V rated value	
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conditional short-circuit current (lq) 4 000 A • at 690 V according to IEC 60947-4-1 rated value 153 000 A • at 500 V according to IEC 60947-4-1 rated value 100 000 A • at 500 V according to IEC 60947-4-1 rated value 100 000 A Installation/ mounting/ dimensions vertical mounting position vertical fastening method screw and snap-on mounting onto 35 mm standard mounting rail height 193.1 mm width 45 mm depth 97.1 mm required spacing 0 mm • for grounded parts 0 mm - forwards 0 mm - ackwards 0 mm - downwards 10 mm - downwards 0 mm - downwards 0 mm - downwards 10 mm - downwards 9 mm - downwards 10 mm - downwards 10 mm - downwards 9 mm - downwards 10 m		magnetic
• at 690 V according to IEC 60947-4-1 rated value 4 000 A • at 400 V according to IEC 60947-4-1 rated value 100 000 A Installation/ mounting/ dimensions 100 000 A Installation/ mounting/ dimensions vertical screw and snap-on mounting onto 35 mm standard mounting rail 193.1 mm height 193.1 mm width 45 mm depth 97.1 mm required spacing 0 mm • for grounded parts 0 mm - forwards 0 mm - advards 30 mm - downwards 10 mm - forwards 0 mm - downwards 0 mm - downwards 10 mm • for live parts 10 mm - forwards 10 mm - backwards 0 mm - downwards 10 mm • for live parts 10 mm - downwards 10 mm - downwards<		
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• at 500 V according to IEC 60947-4-1 rated value 100 000 A Installation/ mounting/ dimensions • vertical fastening method screw and snap-on mounting onto 35 mm standard mounting rail height 193.1 mm width 45 mm depth 97.1 mm required spacing • for grounded parts - forwards 10 mm - backwards 0 mm - at the side 9 mm - downwards 10 mm - forwards 0 mm - at the side 9 mm - forwards 10 mm - forwards 10 mm - downwards 10 mm - forwards 10 mm - forwards 10 mm - downwards 10 mm - at the side 9 mm - downwards 10 mm - at the side 9 mm - downwards 10 mm - at the side 9 mm	-	153 000 A
Installation/ mounting / dimensions vertical mounting position screw and snap-on mounting onto 35 mm standard mounting rail height 193.1 mm width 45 mm depth 97.1 mm required spacing • - forwards 10 mm - backwards 0 mm - backwards 30 mm - at the side 9 mm - downwards 10 mm - downwards 0 mm - downwards 10 mm - backwards 0 mm - downwards 10 mm - at the side 9		100 000 A
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• for grounded parts	fastening method height	screw and snap-on mounting onto 35 mm standard mounting rail 193.1 mm
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	fastening method height width depth required spacing	screw and snap-on mounting onto 35 mm standard mounting rail 193.1 mm 45 mm
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— at the side9 mmConnections/ Terminalstype of electrical connection for main current circuitscrew-type terminalstype of connectable conductor cross-sections1 10 mm², 2x (2.5 6 mm²)• for main contacts stranded1 10 mm², 2x (2.5 6 mm²)• at AWG cables for main contacts2x (16 12), 2x (14 8)connectable conductor cross-section for main contacts1 6 mm²finely stranded with core end processing1 6 mm²B10 value with high demand rate according to SN 319201 000 000proportion of dangerous failures with high demand rate according to SN 3192073 %	fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — forwards	screw and snap-on mounting onto 35 mm standard mounting rail 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm
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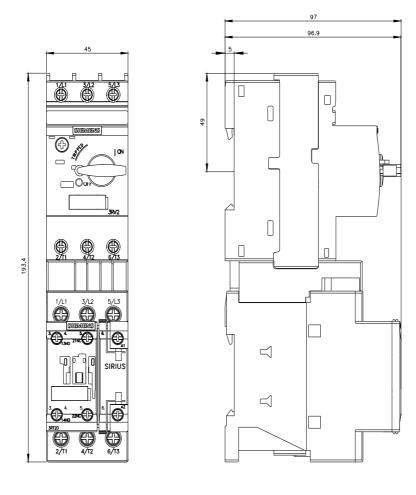


Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1FA24-0AK6/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-1FA24-0AK6&objecttype=14&gridview=view1



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