SIEMENS

Data sheet

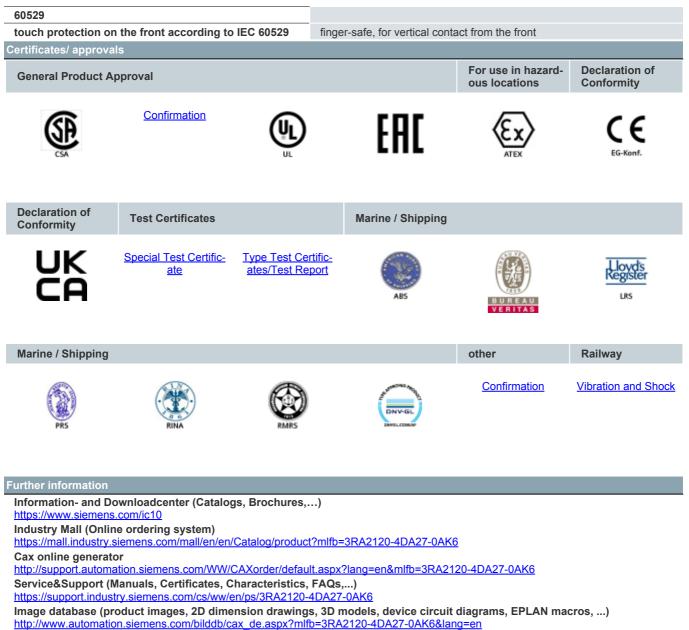
3RA2120-4DA27-0AK6



FUSELESS LOAD FEEDER DIRECT START, AC 400V, SZ. S0, 18...25A, AC 110/120V 50/60HZ SCREW TERMINAL FOR DIN RAIL MOUNTING, TYPE OF ASSIGNMENT 2,IQ = 150KA (ALSO TYPE OF ASSIGNMENT 1) 1NO+1NC (CONTACTOR)

warden 6 based and a	
product brand name	SIRIUS
product designation	non-fused load feeders 3RA2
design of the product	direct starter
manufacturer's article number	
of the supplied contactor	<u>3RT2027-1AK60</u>
 of the supplied circuit-breakers 	<u>3RV2021-4DA10</u>
 of the supplied link module 	<u>3RA2921-1AA00</u>
General technical data	
size of the circuit-breaker	SO
size of load feeder	SO
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)	05/01/2012
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	20 25 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	22 A
operating power at AC-3	
• at 400 V rated value	11 000 W
• at 500 V rated value	15 000 W
• at 690 V rated value	22 000 W
Control circuit/ Control	

control supply voltage at AC 100 V • at 50 Hz rade value 100 V apparent holding power of magnet coll at AC 98 V/A Protective and monitoring functions UASS 10 design of the overload release thomas intip class CLASS 10 design of the overload release thomas UCSA rating Thil-load current (FLA) for 3-phase AC motor • at 480 V rated value 22 A • at 480 V rated value 219 A visited mechanical performance (bp) • for single-phase AC motor • of or 3-phase AC motor 219 A • of or 3-phase AC motor 219 A • of or 3-phase AC motor 5 hp • of or 3-phase AC motor 2 hp • of or 3-phase AC motor 7 hp • at 600 V acted value 5 hp • at 600 V acted value 5 hp • at 600 V according bite C6047-4 rated value 5000 A • at 600 V according bite C6047-4 rated value 5000 A <th></th> <th></th>		
• at 61 H2 rated value 120 V apparent holding power of magnet coil at AC 98 VA Protoctive and monitoring functions CLASS 10 design of the overload release thermal (binstatus) response value current of Instantaneous short-circuit trip unit 325 A ULUSA ratings Tubled current (FLA) for 3-phase AC motor • at 480 V rated value 21 9 A visited mechanical performance (hp) • for single-base AC motor • at 300 V rated value 5 hp • at 200220 V rated value 5 hp • at 2002200 V rated value 7 hp • at 430 V rated value 1 hp • at 430 V according to EC 6947-4 + rated value 2 00 hp Short-fucut protection Yes magnetic 5 000 A conditional short-fucut protection Yes mounting postelion Serw and snap-on mounting onto 35 mm standard mounting rail helight 197.1 mm	control supply voltage at AC	440.14
appearent holding power of magnet coil at AC 9.8 VA Protectives and monitoring functions VCASS 10 trip class CLASS 10 design of the overload release thermal (bimetalic) response vulce current of instantaneous short-circuit trip 325 A unit 100 V ratel value 22 A • at 400 V ratel value 21.9 A violated current (FLA) for 3-phase AC motor - at 110 (20 V ratel value 21.9 A • of single-phase AC motor - at 110 (20 V ratel value 3 hp • for 3-phase AC motor - at 110 (20 V ratel value 5 hp		
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Interpretation CLASS 10 design of the overload release Ithermal lobentallic) design of the overload release Ithermal lobentallic) out and overload release 325 A UUCSA ratings 22 A ut at 600 V rated value 21 9 A yielded mechanical performance (hp) 6 or single-phase AC motor		9.8 VA
design of the overlaad release thermal (binetablic) response value current (FLA) for 3-phase AC motor als 0.V rated value al 480.V rated value 22.2 A al 480.V rated value 21.9 A yielded mechanical performance (hp) for single-phase AC motor - mat 10/120 V rated value 21.9 A - mat 200/280 V rated value 3 hp - mat 200/280 V rated value 5 hp - mat 200/280 V rated value 5 hp - mat 200/280 V rated value 5 hp - mat 200/280 V rated value 7.5 hp - mat 200/280 V rated value 20 hp Stort-circuit protection Preside product function short circuit protection magnetic conditional short-circuit trip magnetic conditional short-circuit trip magnetic conditional short-circuit trip 5000 A et al 600 V according to IEC 60947-4-1 rated value 5000 A et al 600 vaccording to IEC 60947-4-1 rated value 5000 A et al 600 vaccording to IEC 60947-4-1 rated value 5000 A et al 600 vaccording to IEC 60947-4-1 rated value 5000 A et a		
response value current of instantaneous short-circuit trip unit 325 A 1U/CSA traings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 21.9 A yielded mechanical performance (tp) • of single-phase AC motor - at 200 V rated value 21.9 A yielded mechanical performance (tp) • of single-phase AC motor - at 200208 V rated value 5 hp - at 200208 V rated value 5 hp - at 375/800 V rated value 20 hp Short-circuit protection Yes magnetic conditional short-circuit urron (tq) • at 400 V according to ICS 60947-4-1 rated value 5 000 A • at 400 V according to ICS 60947-4-1 rated value 5 000 A • at 400 V according to ICS 60947-4-1 rated value 5 000 A • at 400 V according to ICS 60947-4-1 rated value 5 000 A • at 600 V according to ICS 60947-4-1 rated value 5 000 A • at 600 V according to ICS 60947-4-1 rated value 5 000 A • at 800 V according to ICS 60947-4-1 rated value 5 000 A • at		
unit 22.2 A # 480 V rated value 22.2 A a d 80 V rated value 21.9 A yielded mechanical performance [hp] 6 raingle-phase AC motor - at 110/120 V rated value 2 hp - at 220/230 V rated value 3 hp - at 220/230 V rated value 3 hp - at 220/230 V rated value 7.5 hp - at 220/230 V rated value 7.5 hp - at 220/230 V rated value 7.5 hp - at 360/430 V rated value 7.6 hp - at 360/430 V rated value 7.5 hp - at 400 V rated value 7.6 magnetic conditional short-circuit protection Yes design of the short-circuit protection Yes mounting position 5000 A fastaning method 5000 A fastaning method screw and snap-on mounting onto 35 mm standard mounting rail height 193.1 mm witth 45 mm depth 97.1 mm required spacing 10 mm - for alwards 0 mm - downwards 10 mm - adwards 0 mm - adwards <t< td=""><td></td><td></td></t<>		
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• at 480 V reted value 22.2 A • at 600 V rated value 21.9 A yielded mechanical performance (hp) • • for single-phase AC motor 2 hp - at 230 V rated value 3 hp • for 3-phase AC motor 5 hp - at 200/208 V rated value 5 hp - at 200/208 V rated value 5 hp - at 200/208 V rated value 7 5 hp - at 200/208 V rated value 15 hp - at 400/80 V rated value 20 hp Short-circuit protection Yes design of the short-ficuit uprotection Yes conditional short-ficuit uprotection Yes e at 600 V according to EC 60947-4-1 rated value 2000 A • at 600 V according to EC 60947-4-1 rated value 5000 A • at 600 V according to EC 60947-4-1 rated value 5000 A • at 600 V according to EC 60947-4-1 rated value 5000 A • at 600 V according to EC 60947-4-1 rated value 5000 A • at 600 V according to EC 60947-4-1 rated value 5000 A • at 600 V according to EC 60947-4-1 rated value 5000 A • at 600 V according to EC 60947-4-1 rated value 5000 A • at 600 V according to EC 60947-4-1 rated value 5000 A • at 600 V according to EC 60947-4-1 rated value 5000 A • at 600 V according t		
• at 600 V rated value 21.9 A yielded mechanical performance [hp] • for single-phase AC motor - at 100/120 V rated value 2 hp - at 202/230 V rated value 3 hp • for 3-phase AC motor 5 hp - at 202/230 V rated value 7.5 hp - at 202/230 V rated value 7.5 hp - at 460/480 V rated value 15 hp - at 460/480 V rated value 20 hp Short-circuit protection Yes gesign of the short-circuit trip magnetic conditional short-circuit current (fq) 48 ma • at 600 V according to IEC 6047-4-1 rated value 153 000 A • at 600 V according to IEC 6047-4-1 rated value 5000 A • at 500 V according to IEC 6047-4-1 rated value 5000 A • at 500 V according to IEC 6047-4-1 rated value 5000 A • at 500 V according to IEC 6047-4-1 rated value 5000 A Installation/mounting/ dimensions vertical mounting position vertical fastening method szew and snap-on mounting onto 35 mm standard mounting rail height 45 mm • for low parks 10 mm • for low parks 30 mm • for low parks 10 mm • for low parks 30 mm • dectrical connection for main curre		00.0 A
yielded mechanical performance [hp] • for single-phase AC motor		
• for single-phase AC motor		21.9 A
• for 3-phase AC motor 5 hp - at 200/208 V rated value 5 hp - at 480/480 V rated value 75 hp - at 460/480 V rated value 15 hp - at 450/500 V rated value 20 hp Short-circuit protection Yes design of the short-circuit trp magnetic conditional short-circuit corrent (rg) 150 00 A • at 800 V according to IEC 60947-4-1 rated value 2000 A • at 800 V according to IEC 60947-4-1 rated value 5000 A • at 800 V according to IEC 60947-4-1 rated value 5000 A • at 800 V according to IEC 60947-4-1 rated value 5000 A • at 800 V according to IEC 60947-4-1 rated value 5000 A festening method screw and snap-on mounting onto 35 mm standard mounting rell height 193.1 mm width 45 mm depth 97.1 mm required spacing 0 mm • forwards 0 mm - at the side 9 mm - at the side 9 mm - downwards 10 mm - downwards 0 mm - downwards<		
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• at 400 V according to IEC 60947-4-1 rated value 153 000 A • at 500 V according to IEC 60947-4-1 rated value 5 000 A Installation/ mounting/ dimensions 5 000 A 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 • • for grounded parts 0 mm - forwards 10 mm - at the side 9 mm - at the side 9 mm - downwards 10 mm - forwards 10 mm - at the side 9 mm - at the side 9 mm - downwards 0 mm - at the side 9 mm - downwards 0 mm - at the side 9 mm Connections/ Terminals screw-type terminals type of electrical connection for main current circuit screw-type terminals type of electrical connection for main contacts crew-type terminals type of electrical connection for main contacts 2x (16 12), 2x (14 8)		
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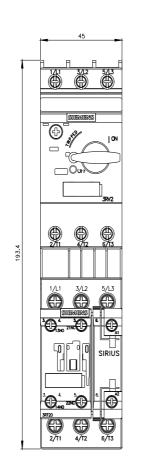


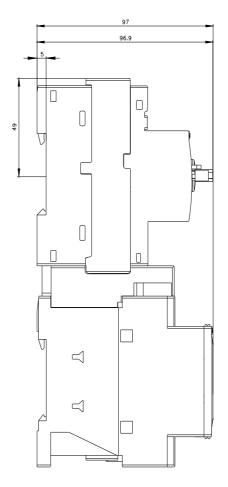
Characteristic: Tripping characteristics, I²t, Let-through current

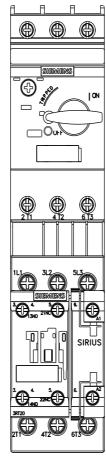
https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4DA27-0AK6/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-4DA27-0AK6&objecttype=14&gridview=view1







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