## SIEMENS

## Data sheet

## 3RA2125-4EA27-0AK6



FUSELESS MOTOR STARTER DIRECT START 600V AC SZ S0 27-32A 110/120V AC 50/60HZ SCREW CONNECTION FOR SCREW MOUNTING OR 35 MM RAIL-MOUNTING TYPE OF COORDINATION 2 IQ = 150 KA ALSO FULFILLS TYPE OF COORDINATION 1 1NO+1NC (MSP) 1NO+1NC (CONTACTOR)

product brand name	SIRIUS		
product designation	non-fused motor starter 3RA2		
design of the product	direct starter		
manufacturer's article number			
<ul> <li>of the supplied contactor</li> </ul>	<u>3RT2027-1AK60</u>		
<ul> <li>of the supplied circuit-breakers</li> </ul>	<u>3RV2021-4EA15</u>		
<ul> <li>of the supplied link module</li> </ul>	<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 (operating cycles) of contactor typical	10 000 000		
type of assignment	2		
Weight	0.76 kg		
Ambient conditions			
ambient temperature			
during operation	-20 +60 °C		
during storage	-50 +80 °C		
during transport	-55 +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	27 32 A		
operating voltage			
rated value	690 V		
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V		
operating frequency rated value	50 60 Hz		
operational current at AC-3 at 400 V rated value	29 A		
operating power at AC-3			
• at 400 V rated value	15 000 W		
• at 500 V rated value	18 500 W		
Control circuit/ Control			
control supply voltage at AC			
• at 50 Hz rated value	110 V		
• at 50 Hz rated value	88 121 V		

int of the final value         int of the diverse		100.11
apparent holding power of magnet coll at AC         9.4 VA           industry power factor with the holding power of the coll         0.28           Analysis of the contracts for auxiliary contacts         2           number of NC contacts for auxiliary contacts         2           Protectives and monitoring functions         ULASS 10           design of the overload release         thermal (binnetalic)           response value control of instalmenous biot-circuit tip unit         416 A           ULCSA anings         Z/A           full-load current of instalmenous biot-circuit tip unit         416 A           ULCSA anings         Z/A           yielded mechanical performance (tp)         0 b p           - at 20203 V rated value         20 p           Stortcircuit protection         Yes           design of the bacterization from Cooper-4-1 rated value         100 non	• at 60 Hz rated value	120 V
Inductive power factor with the holding power of the coll         0.28           Auxiliary circuit		
AusBing vicinit		
number of NG contacts for auxiliary contacts         2           Production and monitoring functions         2           Trip class         CLASS 10           design of the overload release         Uternal (binetallic)           response value current of restantancous short-circuit try unit         416 A           UCSA reliad         27 A           • at 800 V rated value         27 A           • at 800 V rated value         27 A           • at 800 V rated value         5 hp           - or single-phase AC motor         -           - at 200 V rated value         10 hp           - at 200 V rated value         10 hp           - at 2002/00 V rated value         10 hp           - at 2002/00 V rated value         10 hp           - at 400480 V rated value         20 hp           Stort-circuit protection         Yes           design of the short-dircuit protection         Yes           conditional short-circuit protection         Yes           conditional short-firenal protection         Yes           conditional short-firenal protection         Yes           regeted spacing         100 000 A           - at 400 V according to IIC 8087-4-1 mated value         153 000 A           - at 400 V according to IIC 8087-4-1 mated value <td< th=""><th></th><th>0.28</th></td<>		0.28
number of NO contacts for auxiliary contacts         2           Production and monitoring functions         CLASS 10           trip class         CLASS 10           design of the overload release         thermal (binetalic)           response value carrent of instantaneous short-circuit the junt         4/6/6           VLCSA variations         27 A           full-load current (FLA) for 3 phase AC motor         27 A           - at 300 V rated value         27 A           - of a range-phase AC motor         -           - at 220/230 V rated value         5 hp           - of ar 3 phase AC motor         -           - at 220/230 V rated value         10 hp           - at 220/230 V rated value         20 hp           - at 375/800 V rated value         20 hp           - at 375/800 V rated value         10 hp           - at 375/800 V rated value         10 hp           - at 30 V according bit EC 08974-11 rated value         150 000 A           - at 400 V according bit EC 08974-11 rated value         150 000 A           - at 300 V according bit EC 08974-11 rated value         150 000 A           - frastanting method         Snap mounted to DIN rati or screew mounted with additional push-in lug           hight         193.1 mm         wirdth           - for grounded pa		
27b2ctIve and moniforing functions         CLASS 10           trip class         CLASS 10           design of the overload release         thermall (binetalling)           response value current of instantaneous short-circuit try unit         416.A           VLCSA rating         27.A           att 600 V rated value         27.A           - at 620 V rated value         27.A           - at 230 V rated value         5 hp           - for singh-sc Ch motor         -           - at 230 V rated value         10 hp           - at 230 V rated value         10 hp           - at 230/238 V rated value         20 hp           - at 230/238 V rated value         10 hp           - at 230/238 V rated value         20 hp           - at 230/238 V rated value         10 hp           - at 55600 V rated value         10 hp           - at 600 V according in EC 60847-4-1 rated value         153 500 A           istatilized mounting/ dimensions         Vericial           fre	· · · · · · · · · · · · · · · · · · ·	
trip class         CLASS 10           design of the overload release         internal (binetallic)           response value current of instantaneous short-circuit the unit         416A           LUCEAx rainings         TA           intil-load current (FLA) for 3-phase AC motor         27 A           i at 600 V raide value         27 A           ybided mechanical porformance (hp)         6           - at 230 V raide value         5 hp           - for single-base AC motor         -           - at 200208 V raide value         10 hp           - at 200208 V raide value         20 hp           - at 30 V raide value         20 hp           - at 30 V raide value         20 hp           - at 400 V according to IEC 60474-1 rated value         150 000 A           • at 400 V according to IEC 60474-1 rated value         150 000 A           • at 400 V according to IEC 60474-1 rated value         150 000 A           • at 600 V according to IEC 60474-1 rated value         150 000 A           required spacing         • for grounded posts           for grounded posts         0 mm           - backwards <td></td> <td>2</td>		2
design of the overload rolease         Itemnal (binectallic)           response value current of instantineous short-circuit try unit         416 A           UCIGA analysis         416 A           UCIGA analysis         27 A           • at 800 V rated value         27 A           • at 800 V rated value         27 A           • at 800 V rated value         27 A           • of a Shgle-shase AC motor	Protective and monitoring functions	
response value current of instantaneous short-circuit trip unit     416 A       UUCSA ratings     1       UUCSA rating a     27 A       1 af 480 V rated value     27 A       yibided mechanical performance (p)     6       - at 230 V rated value     5 hp       - for single-phase AC motor     0       - at 200 V rated value     5 hp       - for single-phase AC motor     0       - at 20020B V rated value     10 hp       - at 202020 V rated value     20 hp       - at 20203D V rated value     20 hp       - at 20203D V rated value     20 hp       - at 575600 V rated value     20 hp       - at 400 V according to IEC 60947-4-1 mated value     183 000 A       - at 400 V according to IEC 60947-4-1 mated value     103 000 A       - at 400 V according to IEC 60947-4-1 mated value     103 000 A       - at 400 V according to IEC 60947-4-1 mated value     103 000 A       - at 400 V according to IEC 60947-4-1 mated value     103 000 A       - at 400 V according to IEC 60947-4-1 mated value     103 000 A       - at 400 V according to IEC 60947-4-1 mated value     103 000 A       - at 400 V according to IEC 60947-4-1 mated value     103 00 A       - at 400 V according to IEC 60947-4-1 mated value     103 1 mm       - at 400 V according to IEC 60947-4-1 mated value     100 000 A	trip class	
UUC5A ratings           full-load current (FLA) for 3-phase AC motor           • at 300 V rated value         27 A           • at 300 V rated value         27 A           • at 300 V rated value         27 A           • or single-phase AC motor         5 hp           • for 3-phase AC motor         6 hp           • at 300 V rated value         5 hp           • for 3-phase AC motor         9 hp           - at 200208 V rated value         10 hp           - at 404400 V rated value         25 hp           Shef-circuit protection         magnetic           conditional short-circuit protection         magnetic           conditional short-circuit protection         10 hp           • at 300 V according to ICE 00947-4-1 rated value         10 000 A           • at 400 vaccording to ICE 00947-4-1 rated value         10 000 A           • at 300 V according to ICE 00947-4-1 rated value         10 000 A           • at 300 V according to ICE 00947-4-1 rated value         10 mm           • at 300 V according to ICE 00947-4-1 rated value         10 mm           • at 300 V according to ICE 00947-4-1 rated value         10 arm           • at 300 V according to ICE 00947-4-1 rated value         10 arm           • for grounded partis         0 mm           • ore grounded pa		thermal (bimetallic)
full-load current (FLA) for 3-phase AC motor     27 A       • at 800 V rated value     27 A       • at 800 V rated value     27 A       yielded mechanical performance (hp)     •       • for single-phase AC motor     6 hp       • at 200 V rated value     5 hp       • at 200 V rated value     10 hp       - at 200230 V rated value     10 hp       - at 200230 V rated value     20 hp       - at 200230 V rated value     20 hp       - at 200230 V rated value     20 hp       - at 375000 V rated value     20 hp       - at 400 V according to IEC 60047-41 rated value     153 000 A       • at 400 V according to IEC 60047-41 rated value     153 000 A       • at 400 V according to IEC 60047-41 rated value     153 000 A       • at 400 V according to IEC 60047-41 rated value     153 000 A       • at 400 V according to IEC 60047-41 rated value     153 000 A       • at 90 v according to IEC 60047-41 rated value     153 000 A       • at 90 v according to IEC 60047-41 rated value     153 000 A       • at 90 v according to IEC 60047-41 rated value     153 000 A       • at 90 v according to IEC 60047-41 rated value     193 1 mm       • at 90 v according to IEC 60047-41 rated value     193 1 mm       • at 90 v according to IEC 60047-41 rated value     10 mm       • at 600 m     9 mm <t< td=""><td>· · ·</td><td>416 A</td></t<>	· · ·	416 A
4 480 V rated value27 A• et 4600 V rated value27 A• for single-phase AC motor5 hp- et 230 V rated value5 hp- et 230220 V rated value10 hp- et 230220 V rated value20 hp- et 230220 V rated value20 hp- et 450450 V rated value163 000 A- et 4500 V according to EC 60047-41 rated value153 000 A- et 4500 V according to EC 60047-41 rated value100 000 A- et 4500 V according to EC 60047-41 rated value163 000 A- et 4500 V according to EC 60047-41 rated value160 000 A- for grounded parts for grounded parts for grounded parts for grounded parts for grounded parts10 mm- for wards10 mm- backwards0 mm- downards10 mm- backwards0 mm- downards10 mm- backwards0 mm- backwards0 mm- downards10 mm- backwards0 mm<	UL/CSA ratings	
• at 600 V rated value     27 Å       yielded mechanical performance [hp]     -       • of a single-phase AC motor     -       • at 200 V rated value     5 hp       • for 3 phase AC motor     -       - at 200208 V rated value     10 hp       - at 200208 V rated value     10 hp       - at 200208 V rated value     20 hp       - at 200208 V rated value     20 hp       - at 200208 V rated value     20 hp       - at 575000 V rated value     25 hp       Short-circuit protection     Yes       design of the short-circuit protection     Yes       conditional short-circuit protection     Yes       ordinational short-circuit protection     Yes       design of the short-circuit protection     Yes       stable/ordinational protection (log)     -       • 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       # stable/ordinating dimension     Vertical       festening method     Serve-mounted to DIN rail or screev-mounted with additional push-in lug       height     193.1 mm       width     45 mm       design of the solve     0 mm       - forwards     0 mm       - forwards     10 mm       - downards     0 mm	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance (hp)              if or single-phase AC motor	• at 480 V rated value	27 A
for single-phase AC motor	at 600 V rated value	27 A
- of 230 V rated value 5 hp • for 3-phase AC motor - at 220/280 V rated value 10 hp - at 220/280 V rated value 20 hp - at 375600 V rated value 20 hp - at 37560 V rated value 20 hp - at 300 V according to EC 60947-4-1 rated value 153 000 A - at 400 V according to EC 60947-4-1 rated value 100 000 A - at 400 V according to EC 60947-4-1 rated value 100 000 A - at 400 V according to EC 60947-4-1 rated value 100 000 A - at 500 V according to EC 60947-4-1 rated value 100 000 A - at 500 V according to EC 60947-4-1 rated value 100 000 A - at 500 V according to EC 60947-4-1 rated value 100 000 A - at 500 V according to EC 60947-4-1 rated value 100 000 A - at 500 V according to EC 60947-4-1 rated value 100 000 A - at 500 V according to EC 60947-4-1 rated value 100 000 A - at 500 V according to EC 60947-4-1 rated value 100 000 A - at 500 V according to EC 60947-4-1 rated value 100 000 A - at 500 V according to EC 60947-4-1 rated value 100 000 A - at 500 V according to EC 60947-4-1 rated value 100 000 A - at 500 V according to EC 60947-4-1 rated value 100 000 A - at 500 V according to EC 60947-4-1 rated value 100 000 A - at the side 9 mm - a	yielded mechanical performance [hp]	
• for 3-phase AC motor <ul> <li>- at 200/208 V rated value</li> <li>10 hp</li> <li>- at 200/208 V rated value</li> <li>20 hp</li> <li>- at 450/480 V rated value</li> <li>20 hp</li> <li>- at 450/480 V rated value</li> <li>20 hp</li> <li>- at 575600 V rated value</li> <li>26 hp</li> </ul> <li>Short-clinical protection</li> <li>Ves</li> <li>required protection</li> <li>at 400 V according to EC 60947-4-1 rated value</li> <li>153 000 A</li> <li>at 400 V according to EC 60947-4-1 rated value</li> <li>100 000 A</li> <li>Instalator/ mounting/ dimensions</li> <li>mounting position</li> <li>series</li> <li>at 600 V according to EC 60947-4-1 rated value</li> <li>100 000 A</li> <li>Instalator/ mounting/ dimensions</li> <li>wertical</li> <li>featoning method</li> <li>Snap-mounted to DIN rail or screw-mounted with additional push-in lug</li> <li>height</li> <li>193.1 mm</li> <li>width</li> <li>465 mm</li> <li>of org rounded parts</li> <li>- forwards</li> <li>0 mm</li> <li>- backwards</li> <li>0 mm</li> <li>- backwards</li> <li>0 mm</li> <li>- backwards</li> <li>0 mm</li> <li>- backwards</li> <li>0 mm</li> <li>- downards</li> <li>0 mm</li> <li>- downards</li> <li>0 mm</li> <li>- forwards</li> <li>0 mm</li> <li>- downards</li> <li>0 mm</li> <li></li>	<ul> <li>for single-phase AC motor</li> </ul>	
		5 hp
	•	
		•
Short-circuit protection         Yes           design of the short-circuit trip         magnetic           conditional short-circuit current (lq)         153 000 A           • at 500 V according to IEC 60947-4-1 rated value         100 000 A           Installation/mounting/dimensions         vertical           mounting position         vertical           fastening method         Snap-mounted to DIN rail or screw-mounted with additional push-in lug           height         193.1 mm           width         45 mm           dopth         97.1 mm           required spacing         •           • for grounded parts         10 mm           - lowwards         0 mm           - downwards         10 mm           - downwards         10 mm           - downwards         10 mm           - backwards         0 mm           - downwards         10 mm           - backwards         0 mm           - downwards         10 mm           - backwards         10 mm           - backwards         10 mm           - downwards         10 mm           - downwards         10 mm           - downwards         10 mm           - backwards         0 mm     <		•
product function short circuit protection         Yes           design of the short-circuit trip         magnetic           conditional short-circuit current (tq)         153 000 A           • at 400 V according to IEC 60947-4-1 rated value         100 000 A           Installation/ mounting/ dimensions         100 000 A           mounting position         vertical           fastening method         Snap-mounted to DIN rail or screw-mounted with additional push-in lug           height         193.1 mm           width         45 mm           depth         97.1 mm           required spacing         0 mm           • for grounded parts         0 mm           - forwards         0 mm           - downwards         10 mm           • for live parts         10 mm           - forwards         10 mm           - downwards		25 hp
design of the short-circuit trip     magnetic       conditional short-circuit current (Iq)     is 3000 A       e at 500 V according to IEC 6 0947-4-1 rated value     153 000 A       mounting position     vertical       fastening method     Snap-mounted to DIN rail or screw-mounted with additional push-in lug       height     193.1 mm       width     45 mm       depth     97.1 mm       required spacing     0 mm       - forwards     0 mm       - backwards     0 mm       - at the side     9 mm       - downwards     10 mm <td>Short-circuit protection</td> <td></td>	Short-circuit protection	
conditional short-circuit current (iq)       153 000 A         • at 400 V according to IEC 60947-41 rated value       100 000 A         Installation/ mounting/ dimensions       vertical         mounting position       vertical         fastening method       Snap-mounted to DIN rail or screw-mounted with additional push-in lug         height       193.1 nm         width       45 mm         depth       97.1 mm         required spacing       0 mm         • for grounded parts       0 mm         - forwards       0 mm         - at the side       9 mm         - downwards       10 mm         • for live parts       -         - forwards       0 mm         - downwards       10 mm         • for live parts       -         - downwards       0 mm         - downwards       0 mm         - downwards       0 mm         - downwards       10 mm         - at he side       9 mm </td <td>product function short circuit protection</td> <td>Yes</td>	product function short circuit protection	Yes
• 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     100 000 A       Installation/mounting/dimensions     100 000 A       mounting position     vertical       fastening method     Snap-mounted to DIN rail or screw-mounted with additional push-in lug       height     193.1 mm       width     45 mm       depth     97.1 mm       required spacing     •       • for grounded parts     0 mm       - forwards     0 mm       - at the side     9 mm       - downwards     0 mm       - downwards     10 mm       • for live parts     0 mm       - downwards     0 mm       - at the side     9 mm       Standards     10 mm       - at the side     9 mm       - at the side     9 mm       Standards     10 mm       - downwards     10 mm       - at the side     9 mm       Connections/Terminals     screw-type terminals       type of electrical connection for main cont	design of the short-circuit trip	magnetic
• at 500 V according to IEC 60947-4-1 rated value       100 000 A         Installation/ mounting/dimensions       vertical         mounting position       vertical         fastening method       Snap-mounted to DIN rail or screw-mounted with additional push-in lug         height       193.1 mm         width       45 mm         depth       97.1 mm         required spacing       •         • for grounded parts       0 mm         - packwards       0 mm         - packwards       0 mm         - at the side       9 mm         - downwards       10 mm         - downwards       0 mm         - forwards       0 mm         - downwards       0 mm         - downwards       10 mm         - downwards       0 mm         - downwards       0 mm         - downwards       10 mm         - at the side       9 mm	conditional short-circuit current (Iq)	
Installation/ mounting/ dimensions         vertical           mounting position         Snap-mounted to DIN rail or screw-mounted with additional push-in lug           height         193.1 mm           width         45 mm           depth         97.1 mm           required spacing         of or grounded parts           - forwards         10 mm           - backwards         0 mm           - upwards         30 mm           - downwards         10 mm           - downwards         0 mm           - downwards         0 mm           - backwards         0 mm           - downwards         10 mm           - backwards         0 mm           - downwards         0 mm           - backwards         0 mm           - downwards         10 mm           - backwards         0 mm           - downwards         10 mm           - downwards         10 mm           - at the side         9 mm           - otheratis         10 mm           - at the side         9 mm           - downwards         10 mm           - at the side         9 mm           connectable conductor cross-sections for main contacts         1 10	<ul> <li>at 400 V according to IEC 60947-4-1 rated value</li> </ul>	153 000 A
mounting position         vertical           fastening method         Snap-mounted to DIN rail or screw-mounted with additional push-in lug           height         193.1 mm           width         45 mm           depth         97.1 mm           required spacing         •           - forwards         10 mm           - backwards         0 mm           - backwards         0 mm           - upwards         30 mm           - at the side         9 mm           - downwards         10 mm           - forwards         0 mm           - downwards         10 mm           - forwards         10 mm           - downwards         10 mm           - backwards         0 mm           - upwards         30 mm           - downwards         10 mm           - downwards         10 mm           - downwards         10 mm           - at the side         9 mm           Connections/ Terminals         10 mm           type of electrical connection for main current circuit         screw-type terminals           type of electrical connection for main contacts         1 10 mm², 2x (2.5 6 mm²)           stranded         min contacts finely <td>, and the second s</td> <td>100 000 A</td>	, and the second s	100 000 A
fastering method       Snap-mounted to DIN rail or screw-mounted with additional push-in lug         height       193.1 mm         width       45 mm         depth       97.1 mm         required spacing       • for grounded parts         - forwards       0 mm         - backwards       0 mm         - upwards       30 mm         - at the side       9 mm         - downwards       10 mm         - forwards       0 mm         - backwards       0 mm         - downwards       10 mm         - backwards       0 mm         - downwards       10 mm         - at the side       9 mm         Connections/ Terminals       9 mm         Vpe of electrical connection for main current circuit       screw-type terminals         type of connectable conductor cross-sections for main contacts       1 10 mm², 2x (2.5 6 m²)         stranded       5afoty related data         proportion of dangerous failures with high demand rate according to SN 31920       1 000 000         Electrical Safety       protection class	Installation/ mounting/ dimensions	
height       193.1 mm         width       45 mm         depth       97.1 mm         required spacing       • for grounded parts         - forwards       10 mm         - backwards       0 mm         - upwards       30 mm         - at the side       9 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - forwards       0 mm         - downwards       10 mm         - forwards       0 mm         - downwards       10 mm         - forwards       0 mm         - downwards       10 mm         - at the side       9 mm         Connections/ Terminals       0 mm         - at the side       9 mm         Connectable conductor cross-section for main contacts finely stranded with core end processing       1 10 mm², 2x (2.5 6 mm²)         Stranded       stranded       73 %         according to SN 31920       1 000 000         Electrical Safety       IP20		
width       45 mm         depth       97.1 mm         required spacing       • for grounded parts         - forwards       10 mm         - backwards       0 mm         - upwards       30 mm         - at the side       9 mm         - downwards       10 mm         - downwards       10 mm         - downwards       0 mm         - forwards       0 mm         - downwards       10 mm         - forwards       0 mm         - forwards       10 mm         - downwards       0 mm         - downwards       0 mm         - at the side       9 mm         - backwards       0 mm         - at the side       9 mm         Connections/ Terminals       10 mm         type of electrical connection for main current circuit       screw-type terminals         type of connectable conductor cross-section for main contacts finely stranded       1 10 mm², 2x (2.5 6 mm²)         stranded       1 0 mm²         Safety rolated data       73 %         proportion of dangerous failure		vertical
depth     97.1 mm       required spacing     • for grounded parts       - forwards     10 mm       - backwards     0 mm       - backwards     30 mm       - at the side     9 mm       - downwards     10 mm       - downwards     10 mm       - downwards     10 mm       - downwards     10 mm       - downwards     0 mm       - downwards     10 mm       - forwards     0 mm       - backwards     0 mm       - backwards     0 mm       - backwards     0 mm       - backwards     10 mm       - backwards     10 mm       - backwards     10 mm       - backwards     10 mm       - downwards     10 mm       - at the side     9 mm       Connections/ Terminals     10 mm       type of electrical connection for main current circuit     screw-type terminals       type of electrical connects for main contacts finely     1 6 mm²       stranded with core end processing     1 6 mm²       Safety related data     73 %       according to SN 31920     1000 000       Electrical Safety     Image: screw-type terminals       protection class IP on the front according to SIC 60529     IP20		
required spacing         • for grounded parts         - forwards       10 mm         - backwards       0 mm         - backwards       0 mm         - upwards       30 mm         - at the side       9 mm         - downwards       10 mm         - downwards       10 mm         • for live parts       10 mm         - forwards       0 mm         - backwards       0 mm         - backwards       0 mm         - backwards       0 mm         - downwards       10 mm         - backwards       0 mm         - downwards       10 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       1 10 mm², 2x (2.5 6 mm²)         stranded       1 10 mm²         connectable conductor cross-sections for main contacts       1 6 mm²         stranded with core end processing       1 6 mm²         Safety related data       73 %         proportion of dangerous failures with high demand rate according to SN 31920       1 000 000         E	fastening method	Snap-mounted to DIN rail or screw-mounted with additional push-in lug
• for grounded parts       0 mm         - forwards       0 mm         - backwards       0 mm         - upwards       30 mm         - at the side       9 mm         - at the side       9 mm         - downwards       10 mm         - for live parts       -         - forwards       0 mm         - backwards       0 mm         - downwards       10 mm         - backwards       9 mm         - downwards       10 mm         - downwards       1 mo         - downwards       1 mo         - downwards       1 mo         stype of c	fastening method height	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm
- forwards10 mm- backwards0 mm- upwards30 mm- upwards30 mm- at the side9 mm- downwards10 mm- downwards10 mm- for live parts forwards0 mm- backwards0 mm- backwards0 mm- upwards30 mm- upwards0 mm- upwards30 mm- downwards10 mm- at the side9 mmConnections/Torminalsscrew-type terminalstype of electrical connection for main current circuitscrew-type terminalstype of electrical connection for main current circuitscrew-type terminalstype of electrical connection for main contacts finely stranded with core end processing1 6 mm²Safety related data73 %proportion of dangerous failures with high demand rate according to SN 319201 000 000Electrical Safety	fastening method height width depth	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm
backwards0 mm upwards30 mm at the side9 mm at the side9 mm downwards10 mm for live parts forwards0 mm backwards0 mm backwards0 mm upwards30 mm upwards10 mm at the side9 mm at the side9 mmConnections/ Terminalsscrew-type terminalstype of electrical connection for main current circuitscrew-type terminalstype of connectable conductor cross-sections for main contacts1 10 mm², 2x (2.5 6 mm²)stranded1 6 mm²stranded73 %Safety related data73 %Proportion of dangerous failures with high demand rate according to SN 319201 000 000Electrical Safety1 000 000Electrical SafetyIP20	fastening method height width depth required spacing	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm
upwards30 mm at the side9 mm at the side9 mm downwards10 mm for live parts10 mm forwards0 mm backwards0 mm backwards0 mm upwards30 mm downwards10 mm downwards10 mm at the side9 mmConnections/ Terminalstype of electrical connection for main current circuitscrew-type terminalstype of connectable conductor cross-sections for main contacts1 10 mm², 2x (2.5 6 mm²)stranded1 10 mm²2x (2.5 6 mm²)Safety related dataproportion of dangerous failures with high demand rate according to SN 3192073 %B10 value with high demand rate according to SN 319201 000 000Electrical Safety1000 000Electrical SafetyIP20	fastening method         height         width         depth         required spacing         • for grounded parts	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm
- at the side9 mm- downwards10 mm• for live parts forwards10 mm- backwards0 mm- backwards0 mm- upwards30 mm- downwards10 mm- at the side9 mmConnections/ Terminalstype of electrical connection for main current circuitscrew-type terminalstype of electrical connection for main current circuitscrew-type terminalstype of electrical connection for main contacts1 10 mm², 2x (2.5 6 mm²)stranded1 6 mm²stranded1 6 mm²Safety related data73 %Proportion of dangerous failures with high demand rate according to SIN 319201 000 000Electrical Safety1 000 000Electrical SafetyIP20	fastening method         height         width         depth         required spacing         • for grounded parts         — forwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm
- downwards10 mm• for live parts forwards10 mm- backwards0 mm- backwards0 mm- upwards30 mm- downwards10 mm- a the side9 mmConnections/ Terminalstype of electrical connection for main current circuitscrew-type terminalstype of connectable conductor cross-sections for main contacts1 10 mm², 2x (2.5 6 mm²)stranded1 6 mm²connectable conductor cross-section for main contacts finely stranded with core end processing1 6 mm²Safety related dataproportion of dangerous failures with high demand rate according to SN 3192073 %B10 value with high demand rate according to SN 319201 000 000Electrical SafetyIprotection class IP on the front according to IEC 60529IP20	fastening method height width depth required spacing • for grounded parts — forwards — backwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm
• for live parts         - forwards         10 mm           - backwards         0 mm           - upwards         30 mm           - downwards         10 mm           - a the side         9 mm           Connections/ Terminals           type of electrical connection for main current circuit         screw-type terminals           type of connectable conductor cross-sections for main contacts finely stranded with core end processing         1 10 mm², 2x (2.5 6 mm²)           stranded         1 6 mm²           stranded with core end processing         1 6 mm²           Safety related data         73 %           proportion of dangerous failures with high demand rate according to SN 31920         1 000 000           Electrical Safety         1 000 000           Proportion class IP on the front according to IEC 60529         IP20	fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm
forwards10 mm backwards0 mm upwards30 mm downwards10 mm at the side9 mm at the side9 mmConnections/ Terminalstype of electrical connection for main current circuitscrew-type terminalstype of electrical connection for main current circuitscrew-type terminalstype of connectable conductor cross-sections for main contacts1 10 mm², 2x (2.5 6 mm²)stranded1 6 mm²connectable conductor cross-section for main contacts finely stranded with core end processing1 6 mm²Safety related dataproportion of dangerous failures with high demand rate according to SN 3192073 %B10 value with high demand rate according to SN 319201 000 000Electrical SafetyIP20	fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm
	fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm
upwards30 mm downwards10 mm at the side9 mmConnections/ Terminalstype of electrical connection for main current circuitscrew-type terminalstype of connectable conductor cross-sections for main contacts stranded1 10 mm², 2x (2.5 6 mm²)connectable conductor cross-section for main contacts finely stranded with core end processing1 6 mm²Safety related data73 %proportion of dangerous failures with high demand rate according to SN 319201 000 000B10 value with high demand rate according to SN 319201 000 000Electrical SafetyIP20	fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm
	fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm
— at the side9 mmConnections/ Terminalstype of electrical connection for main current circuitscrew-type terminalstype of connectable conductor cross-sections for main contacts stranded1 10 mm², 2x (2.5 6 mm²)connectable conductor cross-section for main contacts finely stranded with core end processing1 6 mm²Safety related data73 %proportion of dangerous failures with high demand rate according to SN 3192073 %B10 value with high demand rate according to SN 319201 000 000Electrical SafetyIP20	fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — backwards         • bor live parts         — backwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm
Connections/ Terminals         type of electrical connection for main current circuit       screw-type terminals         type of connectable conductor cross-sections for main contacts stranded       1 10 mm², 2x (2.5 6 mm²)         connectable conductor cross-section for main contacts finely stranded with core end processing       1 6 mm²         Safety related data       73 %         proportion of dangerous failures with high demand rate according to SN 31920       73 %         B10 value with high demand rate according to SN 31920       1 000 000         Electrical Safety       1 000 000         protection class IP on the front according to IEC 60529       IP20	fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — upwards         • for live parts         — upwards         — upwards         — upwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 10 mm 10 mm 10 mm 30 mm 30 mm
type of electrical connection for main current circuit       screw-type terminals         type of connectable conductor cross-sections for main contacts stranded       1 10 mm², 2x (2.5 6 mm²)         connectable conductor cross-section for main contacts finely stranded with core end processing       1 6 mm²         Safety related data       73 %         proportion of dangerous failures with high demand rate according to SN 31920       73 %         B10 value with high demand rate according to SN 31920       1 000 000         Electrical Safety       I 200	fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — downwards         — forwards         — downwards         — forwards         — downwards         — downwards         — downwards	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
type of connectable conductor cross-sections for main contacts stranded       1 10 mm², 2x (2.5 6 mm²)         connectable conductor cross-section for main contacts finely stranded with core end processing       1 6 mm²         Safety related data       73 %         proportion of dangerous failures with high demand rate according to SN 31920       73 %         B10 value with high demand rate according to SN 31920       1 000 000         Electrical Safety       I 000 000         protection class IP on the front according to IEC 60529       IP20	fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — downwards         • for live parts         — forwards         — downwards         — at the side         — at the side         — upwards         — at the side	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
stranded       image: stranded         connectable conductor cross-section for main contacts finely stranded with core end processing       1 6 mm²         Safety related data       73 %         proportion of dangerous failures with high demand rate according to SN 31920       73 %         B10 value with high demand rate according to SN 31920       1 000 000         Electrical Safety       Image: stranded strand to the front according to IEC 60529         IP20       IP20	fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — backwards         — at the side         — downwards         — at the side         — opwards         — at the side         — upwards         — at the side         — ownwards         — at the side         Connections/ Terminals	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 0 mm 9 mm 10 mm 9 mm 10 mm 9 mm
stranded with core end processing       Safety related data         Safety related data       73 %         proportion of dangerous failures with high demand rate according to SN 31920       73 %         B10 value with high demand rate according to SN 31920       1 000 000         Electrical Safety       I 000 000         protection class IP on the front according to IEC 60529       IP20	fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — backwards         — at the side         — downwards         — forwards         — at the side         — upwards         — at the side         — upwards         — at the side         Connections/ Terminals         type of electrical connection for main current circuit	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 10 mm 10 mm 10 mm 0 mm 30 mm 10 mm 9 mm 10 mm 20 mm 30 mm 10 mm 30 mm 10 mm 30 mm 10 mm
proportion of dangerous failures with high demand rate according to SN 31920       73 %         B10 value with high demand rate according to SN 31920       1 000 000         Electrical Safety       protection class IP on the front according to IEC 60529         IP20	fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — backwards         — downwards         • for live parts         — forwards         — upwards         — at the side         — downwards         — at the side         Connections/ Terminals         type of electrical connection for main current circuit         type of connectable conductor cross-sections for main contacts stranded	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 0 mm 30 mm 10 mm 30 mm 10 mm 30 mm 10 mm 30 mm 10 mm 30 mm 10 mm 2 (2.5 6 mm <sup>2</sup> )
according to SN 31920     1 000 000       B10 value with high demand rate according to SN 31920     1 000 000       Electrical Safety     IP20	fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — backwards         — upwards         — at the side         — downwards         — backwards         — upwards         — at the side         Connections/ Terminals         type of electrical connection for main current circuit         type of connectable conductor cross-sections for main contacts stranded         connectable conductor cross-section for main contacts finely stranded with core end processing	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 0 mm 30 mm 10 mm 9 mm 10 mm 30 mm 10 mm 30 mm 10 mm 2 mm 30 mm 10 mm 10 mm 2 (2.5 6 mm <sup>2</sup> )
Electrical Safety         protection class IP on the front according to IEC 60529         IP20	fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — backwards         — upwards         — forwards         — downwards         — of orwards         — downwards         — at the side         — downwards         — at the side         Connections/ Terminals         type of electrical connection for main current circuit         type of connectable conductor cross-sections for main contacts stranded         connectable conductor cross-section for main contacts finely stranded with core end processing         Safety related data	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 0 mm 30 mm 10 mm 9 mm 30 mm 10 mm 9 mm 10 mm <sup>2</sup> 1 10 mm <sup>2</sup> , 2x (2.5 6 mm <sup>2</sup> ) 1 6 mm <sup>2</sup>
protection class IP on the front according to IEC 60529 IP20	fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — backwards         — backwards         — backwards         — upwards         — downwards         — at the side         Connections/ Terminals         type of electrical connection for main current circuit         type of connectable conductor cross-sections for main contacts stranded         connectable conductor cross-section for main contacts finely stranded with core end processing         Safety related data         proportion of dangerous failures with high demand rate	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 0 mm 30 mm 10 mm 9 mm 30 mm 10 mm 9 mm 10 mm <sup>2</sup> 1 10 mm <sup>2</sup> , 2x (2.5 6 mm <sup>2</sup> ) 1 6 mm <sup>2</sup>
	fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — backwards         — ownwards         • for live parts         — forwards         — backwards         — upwards         — downwards         — at the side         Connections/ Terminals         type of electrical connection for main current circuit         type of connectable conductor cross-sections for main contacts stranded         connectable conductor cross-section for main contacts finely stranded with core end processing         Safety related data         proportion of dangerous failures with high demand rate according to SN 31920         B10 value with high demand rate according to SN 31920	Snap-mounted to DIN rail or screw-mounted with additional push-in lug 193.1 mm 45 mm 97.1 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 0 mm 30 mm 10 mm 9 mm 10 mm 9 mm 10 mm 10 mm 9 mm 10 mm 9 mm 10 mm 9 mm 10 mm 9 mm 10 mm 9 mm
	fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — backwards         — ownwards         • for live parts         — forwards         — backwards         — upwards         — backwards         — upwards         — downwards         — at the side         Connections/ Terminals         type of electrical connection for main current circuit         type of connectable conductor cross-sections for main contacts stranded         connectable conductor cross-section for main contacts finely stranded with core end processing         Safety related data         proportion of dangerous failures with high demand rate according to SN 31920         B10 value with high demand rate according to SN 31920         Electrical Safety	Snap-mounted to DIN rail or screw-mounted with additional push-in lug         193.1 mm         45 mm         97.1 mm         10 mm         0 mm         30 mm         9 mm         10 mm         0 mm         30 mm         9 mm         10 mm         0 mm         9 mm         10 mm         9 mm         screw-type terminals         1 10 mm², 2x (2.5 6 mm²)         1 6 mm²         73 %         1 000 000

Approvals Certificates					
General Product App	proval				For use in hazard- ous locations
CE EG-Konf.	UK CA	<u>Confirmation</u>		EHC	K ATEX
Test Certificates		Marine / Shipping			
Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS	BUREAU VERITAS		Lloyd's Register uts
Marine / Shipping			other	Railway	Environment
PRS	RINA	RMRS	<u>Confirmation</u>	Special Test Certific- ate	Environmental Con- firmations
Further information					
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=3RA2125-4EA27-0AK6 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2125-4EA27-0AK6					

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RA2125-4EA27-0AK6

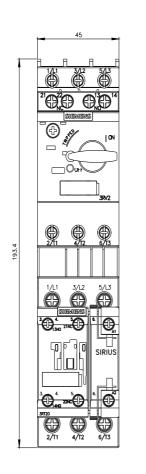
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

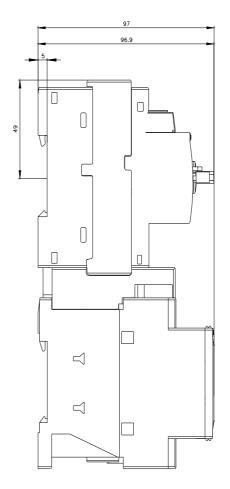
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2125-4EA27-0AK6&lang=en

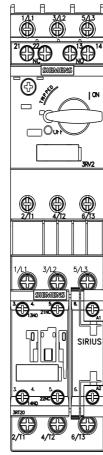
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2125-4EA27-0AK6/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2125-4EA27-0AK6&objecttype=14&gridview=view1







last modified:

12/15/2020 🖸

1/31/2025

Subject to change without notice © Copyright Siemens

## **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

3RA21254EA270AK6