## SIEMENS

## Data sheet

## 3RA2120-4BD27-0AP0



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S0 13...20 A 230 V AC screw terminal for 60 mm busbar systems (also fulfills type of coordination 1) Type of coordination 2, Iq = 150 kA 1 NO+1 NC (contactor)

product brand name         SIRIUS           product designation         Direct (on-line) statter           design of the product         for 60 mm busbars           product type designation         3RA21           manufacturer's article number         -           • of the suppled circuit-breakers         SRY2027-1AP00           • of the suppled circuit-breakers         SRY2021-1BA200           • of the suppled link module         SRA221-11AA00           Central technical data         State of the circuit-breaker           size of the circuit-breaker         S0           size		
design of the product       for 60 mm busbars         product type designation       3RA21         manufacture's article number       3RT2027-1AP00         • of the suppled contactor       3RY2021-1BA10         • of the suppled busher adapter       3RY2021-1BA10         • of the suppled busher adapter       3RY2021-1BA10         • of the suppled busher adapter       SUS 125-15N110         • at AC in hot operating state per pole       5.8 W         • without load current share typical       9.8 W         insulation voltage with degree of pollution 3 at AC rated value       60V         surge voltage resistance rated value       60V         surge voltage resistance rated value       10 000 000         type of assignment       2         reference code according to IEC 61346-2201       00 0000         Substance Prohibitance (Dato)       100/1/2009         SVHC substance name       Lead - 7439-92-1	product brand name	SIRIUS
product type designation         3RA21           manufacturer's article number         3RT2027-1AP00           • of the supplied circuit-breakers         3RT2027-1AP00           • of the supplied incuit-breakers         3RT2027-1AP00           • of the supplied incuit-breakers         3RT2027-1AP00           • of the supplied ink module         3RT2027-1AP00           • of the supplied ink module         3RT2027-1AP00           General technical data         3RT2027-1AP00           size of the circuit-breaker         S0	product designation	Direct (on-line) starter
manufacturer's article number     BRT2027-1AP00       • of the suppled contactor     BRT2027-1AP00       • of the suppled contactoresets     S0       size of the circuit-breaker     S0       size of the circuit-breaker     S0       • eta Ch Int operating state per pole     5.8 W       • without load current share typical     9.8 W       insulation voltage resistance rated value     600 V       surge voltage resistance rated value     61V       degree of protection NEMA rating     other       shock resistance according to IEC 60068-227     6g /11 ms       mechanical service life (operating cycles) of contactor typical     10 000 000       type of assignment     2       reference code according to IEC 60068-227     6g /11 ms       mechanical service life (operating cycles) of contactor typical     10 000 000       Substance Prohibitance (Date)     10/01/2009       SUbstance Prohibitance (Date)     10/01/2009       Substance aname     Lead - 7439-92-1   <	design of the product	for 60 mm busbars
of the supplied contactor         SRT2027-1AP00         of the supplied circuit-breakers         SRV2021-BA10         of the supplied busbar adapter         Bust2021-BA10         of the supplied busbar adapter         BBA2221-BA00         So         Size of the circuit-breaker         So         size of the circuit-breaker         So         power loss [W] for rated value of the current         • et AC in hot operating state per pole         S.8 W         insulation voltage with degree of pollution 3 at AC rated value         690 V         surge voltage resistance rated value         600 V         surge voltage resistance rated value         600 V         substance Prohibitance (Date)         10 000 000         Vype of assignment         reference code according to IEC 60682-27         6g / 11 ms         mechanical service life (operating cycles) of contactor typical         10 000 000         Vype of assignment         reference code according to IEC 81346-2:2019         Q         SvHC substance Prohibitance (Date)         10/01/2009         SvHC substance Prohibitance (Date)         10/01/2009         SvHC substance Prohibitance (Date)         toring storage              -50 +60 °C              -60 °C              -60 °C              -60 °C	product type designation	3RA21
of the supplied circuit-breakers     of the supplied busbar adapter     of the supplied busbar adapter     of the supplied link module     SR25921-1AA00  Ceneral technical data  size of the circuit-breaker     S0 size of load feeder     S0 power loas (W) for rated value of the current     ott AC in hot operating state per pole     S.8 W     outhout load current share typical     surge vortage resistance rated value     B00 V     surge vortage resistance rated value     B00 V     surge vortage resistance rated value     B00 V     surge vortage resistance rated value     B1VV     degree of protection NEMA rating     other     shock resistance according to IEC 60068-2-27     Gg / 11 ms     mechanical service life (operating cycles) of contactor typical     10 000 000     type of assignment     Z     reference code according to IEC 60068-2-27     Gg / 11 ms     mechanical service life (operating cycles) of contactor typical     10 000 000     type of assignment     Z     reference code according to IEC 81346-2:2019     Q     Substance Prohibitance (Date)     Substance Prohibitance(Date)     Substance Prohibitance (Date)     Substance Prohibita	manufacturer's article number	
• of the supplied busbar adapter         BUS1251-5NT10           • of the supplied link module         38A2921-1AA00           General technical data         50           size of the circuit-breaker         50           size of load feeder         S0           • et AC in hot operating state per pole         5.8 W           • without load current share typical         9.8 W           • without load current share typical         9.8 W           insulation voltage with degree of pollution 3 at AC rated value         66 V/           degree of protection NEMA rating         other           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           reference code according to IEC 81346-2:2019         Q           Substance Prohibitance (Date)         10/01/2009           Substance Prohibitance (Date)         10/01/2009           Suffs ubtance Intervice         6a0 - 7439-92-1           Weight         1.276 kg           Ambient tomperature         -20 +60 °C           • during storage         -50 +80 °C           • during transport         -50 +80 °C           temperature compensation         -20 +60 °C	<ul> <li>of the supplied contactor</li> </ul>	<u>3RT2027-1AP00</u>
of the supplied link module     SBA2921-1AA00  General technical data      size of the circuit-breaker     so     size of toad feeder     So      power loss [W] for rated value of the current         • at AC in hot operating state per pole         5.8 W         • without load current share typical         9.8 W      insulation voltage with degree of pollution 3 at AC rated value         6 kV      degree of protection NEIMA rating         other         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         reference code according to IEC 81346-2:2019         Q          Substance Prohibitance (Date)          SUHC substance name         Lead - 7439-92-1          Weight         1.276 kg          Ambient conditions         ambient temperature         • during operation         -50 +60 °C         • during storage         -50 +60 °C          reference code according to IEC 81346-2:2019         C          e during operation         -50 +60 °C          e during storage         -50 +60 °C          retartive numbility during operation         -50 +60	<ul> <li>of the supplied circuit-breakers</li> </ul>	<u>3RV2021-4BA10</u>
General technical data         size of the circuit-breaker       S0         size of load feeder       S0         power loss [W] for rated value of the current       • at AC in hot operating state per pole       5.8 W         • without load current share typical       9.8 W         insulation voltage with degree of pollution 3 at AC rated value       690 V         surge voltage resistance rated value       64 kV         degree of protection NEMA rating       other         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         reference code according to IEC 81346-2:2019       Q         Substance Prohibitance (Date)       100/1/2009         SVHC substance name       Lead - 7439-92-1         Weight       1.276 kg         Ambient conditions       ambient temperature         • during storage       -50 +60 °C         • during storage       -50 +60 °C         • during transport       -50	<ul> <li>of the supplied busbar adapter</li> </ul>	8US1251-5NT10
size of the circuit-breaker     \$0       size of load feeder     \$0       power loss [W] for rated value of the current	<ul> <li>of the supplied link module</li> </ul>	<u>3RA2921-1AA00</u>
size of load feeder       S0         power loss [W] for rated value of the current       .         • at AC in hot operating state per pole       5.8 W         • without load current share typical       9.8 W         insulation voltage with degree of pollution 3 at AC rated value       690 V         surge voltage resistance rated value       6 kV         degree of protection NEMA rating       other         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         reference code according to IEC 81346-2:2019       Q         Substance Prohibitance (Date)       10/01/2009         SVHC substance name       Lead - 7439-92-1         Weight       1.276 kg         Ambient conditions       -20 +60 °C         • during operation       -20 +60 °C         • during storage       -50 +80 °C         • during torage       -50 +80 °C         • during torage       -50 +60 °C         relative humidity during operation       -20 +60 °C         relative humidity during operation       10 95 %         Environmental Froduct Declaration(EPD)       Yes         global warming potential [CO2 e	General technical data	
power loss [W] for rated value of the current       5.8 W         • without load current share typical       9.8 W         insulation voltage with degree of pollution 3 at AC rated value       690 V         surge voltage resistance rated value       6 kV         degree of protection NEMA rating       other         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         reference code according to IEC 81346-2:2019       Q         Substance Prohibitance (Date)       10/01/2009         SVHC substance name       Lead - 7439-92-1         Weight       1.276 kg         Ambient temperature       -         • during operation       -20 +60 °C         • during transport       -50 +80 °C         environmental Product Declaration(EPD)       Yes         global warming potential [CO2 eq] total       92.1 kg         global warming potential [CO2 eq] total       92.1 kg         global warming potential [CO2 eq] total       92.1 kg         global warming pote	size of the circuit-breaker	SO
• at AC in hot operating state per pole       5.8 W         • without load current share typical       9.8 W         insulation voltage with degree of pollution 3 at AC rated value       690 V         surge voltage resistance rated value       64 V         degree of protection NEMA rating       other         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         reference code according to IEC 81346-2:2019       Q         Substance Prohibitance (Date)       10/01/2009         SVHC substance name       Lead - 7439-92-1         Weight       1.276 kg         Ambient conditions       ambient temperature         • during operation       -20 +60 °C         • during transport       -50 +80 °C         • during transport       -50 +60 °C         relative humidity during operation       10 95 %         Environmental Product Declaration(EPD)       Yes         global warming potential [CO2 eq] during manufacturing       5.27 kg         global warming potential [CO2 eq] during operation       87.6 kg         global warming potential [CO2 eq] during operation       87.6 kg         global warming potential [CO2 eq] during	size of load feeder	SO
• without load current share typical       9.8 W         insulation voltage with degree of pollution 3 at AC rated value       690 V         surge voltage resistance rated value       6 kV         degree of protection NEMA rating       other         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         reference code according to IEC 81346-2:2019       Q         Substance Prohibitance (Date)       10/01/2009         SVHC substance name       Lead - 7439-92-1         Weight       1.276 kg         Ambient temperature       -         • during operation       -20 +60 °C         • during strasport       -50 +80 °C         • during transport       -50 +80 °C         • during transport       -50 +80 °C         relative humidity during operation       10 95 %         Environmental Product Declaration(EPD)       Yes         global warming potential [CO2 eq] total       92.1 kg         global warming potential [CO2 eq] during manufacturing       5.27 kg         global warming potential [CO2 eq] during operation       87.6 kg         global warming potential [CO2 eq] during operation       87.6 kg	power loss [W] for rated value of the current	
insulation voltage with degree of pollution 3 at AC rated value       690 V         surge voltage resistance rated value       6 kV         degree of protection NEMA rating       other         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         reference code according to IEC 81346-2:2019       Q         Substance Prohibitance (Date)       10/01/2009         SVHC substance name       Lead - 7439-92-1         Weight       1.276 kg         Ambient conditions       -         ambient temperature       -         • during operation       -20 +60 °C         • during transport       -50 +80 °C         • during transport       -50 +80 °C         temperature compensation       -20 +60 °C         relative humidity during operation       10 95 %         Environmental footprint       Environmental footprint         Environmental footprint       92.1 kg         global warming potential [CO2 eq] during manufacturing       5.27 kg         global warming potential [CO2 eq] during operation       87.6 kg         global warming potential [CO2 eq] during operation       87.6 kg         g	<ul> <li>at AC in hot operating state per pole</li> </ul>	5.8 W
surge voltage resistance rated value       6 kV         degree of protection NEMA rating       other         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         reference code according to IEC 81346-2:2019       Q         Substance Prohibitance (Date)       10/01/2009         SVHC substance name       Lead - 7439-92-1         Weight       1.276 kg         Ambient conditions       ambient temperature         • during operation       -20 +60 °C         • during tarsport       -50 +80 °C         • during transport       -50 +80 °C         • during transport       -50 +60 °C         relative humidity during operation       -20 +60 °C         global warming potential [CO2 eq] total       92.1 kg         global warming potential [CO2 eq] total       92.1 kg         global warming potential [CO2 eq] during manufacturing       527 kg         global warming potential [CO2 eq] during operation       87.6 kg         Main circuit       47.8 kg	<ul> <li>without load current share typical</li> </ul>	9.8 W
degree of protection NEMA rating       other         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         reference code according to IEC 81346-2:2019       Q         Substance Prohibitance (Date)       10/01/2009         SVHC substance name       Lead - 7439-92-1         Weight       1.276 kg         Ambient conditions       ambient temperature         • during operation       -20 +60 °C         • during storage       -50 +80 °C         • during operation       -20 +60 °C         • during transport       -50 +80 °C         Environmental footprint       Environmental footprint         Environmental Product Declaration(EPD)       Yes         global warming potential [CO2 eq] total       92.1 kg         global warming potential [CO2 eq] during manufacturing       5.27 kg         global warming potential [CO2 eq] during operation       87.6 kg         global warming potential [CO2 eq] a	insulation voltage with degree of pollution 3 at AC rated value	690 V
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         reference code according to IEC 81346-2:2019       Q         Substance Prohibitance (Date)       10/01/2009         SVHC substance name       Lead - 7439-92-1         Weight       1.276 kg         Ambient conditions       ambient temperature         • during operation       -20 +60 °C         • during storage       -50 +80 °C         • during transport       -50 +80 °C         temperature compensation       -20 +60 °C         relative humidity during operation       -10 95 %         Environmental Product Declaration(EPD)       Yes         global warming potential [CO2 eq] total       92.1 kg         global warming potential [CO2 eq] during manufacturing       5.27 kg         global warming potential [CO2 eq] during operation       87.6 kg         global warming potential [CO2 eq] after end of life       -0.84 kg	surge voltage resistance rated value	6 kV
mechanical service life (operating cycles) of contactor typical       10 000 000         type of assignment       2         reference code according to IEC 81346-2:2019       Q         Substance Prohibitance (Date)       10/01/2009         SVHC substance name       Lead - 7439-92-1         Weight       1.276 kg         Ambient conditions       ambient temperature         • during operation       -20 +60 °C         • during storage       -50 +80 °C         • during transport       -50 +80 °C         temperature compensation       -20 +60 °C         relative humidity during operation       10 95 %         Environmental Product Declaration(EPD)       Yes         global warming potential [CO2 eq] total       92.1 kg         global warming potential [CO2 eq] during manufacturing       5.27 kg         global warming potential [CO2 eq] during operation       87.6 kg         global warming potential [CO2 eq] during operation       87.6 kg         global warming potential [CO2 eq] during operation       87.6 kg         global warming potential [CO2 eq] during manufacturing       5.27 kg         global warming potential [CO2 eq] after end of life       -0.84 kg	degree of protection NEMA rating	other
type of assignment       2         reference code according to IEC 81346-2:2019       Q         Substance Prohibitance (Date)       10/01/2009         SVHC substance name       Lead - 7439-92-1         Weight       1.276 kg         Ambient conditions       ambient temperature         • during operation       -20 +60 °C         • during storage       -50 +80 °C         • during transport       -50 +80 °C         temperature compensation       -20 +60 °C         relative humidity during operation       -20 +60 °C         temperature compensation       -20 +60 °C         global warming potential [CO2 eq] total       92.1 kg         global warming potential [CO2 eq] during manufacturing       5.27 kg         global warming potential [CO2 eq] during manufacturing       5.27 kg         global warming potential [CO2 eq] during operation       87.6 kg         global warming potential [CO2 eq] during operation       87.6 kg         global warming potential [CO2 eq] after end of life       -0.84 kg         Main circuit       Main circuit	shock resistance according to IEC 60068-2-27	6g / 11 ms
reference code according to IEC 81346-2:2019       Q         Substance Prohibitance (Date)       10/01/2009         SVHC substance name       Lead - 7439-92-1         Weight       1.276 kg         Ambient conditions       ambient temperature         • during operation       -20 +60 °C         • during storage       -50 +80 °C         • during transport       -50 +80 °C         • during transport       -20 +60 °C         • during transport       -50 +80 °C         relative humidity during operation       10 95 %         Environmental Footprint       Environmental Footprint         Environmental [CO2 eq] total       92.1 kg         global warming potential [CO2 eq] during manufacturing       5.27 kg         global warming potential [CO2 eq] after end of life       -0.84 kg         Main circuit	mechanical service life (operating cycles) of contactor typical	10 000 000
Substance Prohibitance (Date)       10/01/2009         SVHC substance name       Lead - 7439-92-1         Weight       1.276 kg         Ambient conditions	type of assignment	2
SVHC substance name       Lead - 7439-92-1         Weight       1.276 kg         Ambient conditions	reference code according to IEC 81346-2:2019	Q
Weight       1.276 kg         Ambient conditions         ambient temperature         • during operation         • during storage         • during transport         -50 +80 °C         temperature compensation         -20 +60 °C         relative humidity during operation         10 95 %         Environmental footprint         Environmental Product Declaration(EPD)         Yes         global warming potential [CO2 eq] total         92.1 kg         global warming potential [CO2 eq] during manufacturing         5.27 kg         global warming potential [CO2 eq] during operation         87.6 kg         global warming potential [CO2 eq] during operation         87.6 kg         global warming potential [CO2 eq] after end of life         -0.84 kg         Main circuit	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         temperature compensation         -20 +60 °C         relative humidity during operation         10 95 %         Environmental footprint         Environmental Product Declaration(EPD)         Yes         global warming potential [CO2 eq] total         92.1 kg         global warming potential [CO2 eq] during manufacturing         5.27 kg         global warming potential [CO2 eq] during operation         87.6 kg         global warming potential [CO2 eq] during operation         87.6 kg         global warming potential [CO2 eq] after end of life         -0.84 kg         Main circuit	SVHC substance name	Lead - 7439-92-1
ambient temperature       -20 +60 °C         • during operation       -50 +80 °C         • during transport       -50 +80 °C         • during transport       -50 +80 °C         • during transport       -20 +60 °C         temperature compensation       -20 +60 °C         relative humidity during operation       10 95 %         Environmental footprint       Environmental footprint         global warming potential [CO2 eq] total       92.1 kg         global warming potential [CO2 eq] during manufacturing       5.27 kg         global warming potential [CO2 eq] during operation       87.6 kg         global warming potential [CO2 eq] after end of life       -0.84 kg         Main circuit       Environue ential [CO2 eq] after end of life	Weight	1.276 kg
• during operation-20 +60 °C• during storage-50 +80 °C• during transport-50 +80 °C• during transport-50 +60 °Ctemperature compensation-20 +60 °Crelative humidity during operation10 95 %Environmental footprintEnvironmental Product Declaration(EPD)Yesglobal warming potential [CO2 eq] during manufacturing5.27 kgglobal warming potential [CO2 eq] during operation87.6 kgglobal warming potential [CO2 eq] after end of life-0.84 kgMain circuit	Ambient conditions	
• during storage       -50 +80 °C         • during transport       -50 +80 °C         • during transport       -50 +80 °C         temperature compensation       -20 +60 °C         relative humidity during operation       10 95 %         Environmental footprint	ambient temperature	
• during transport       -50 +80 °C         temperature compensation       -20 +60 °C         relative humidity during operation       10 95 %         Environmental footprint	<ul> <li>during operation</li> </ul>	-20 +60 °C
temperature compensation       -20 +60 °C         relative humidity during operation       10 95 %         Environmental footprint       Environmental footprint         global warming potential [CO2 eq] total       92.1 kg         global warming potential [CO2 eq] during manufacturing       5.27 kg         global warming potential [CO2 eq] during operation       87.6 kg         global warming potential [CO2 eq] after end of life       -0.84 kg	during storage	-50 +80 °C
relative humidity during operation       10 95 %         Environmental footprint       Environmental Product Declaration(EPD)         Yes       global warming potential [CO2 eq] total         global warming potential [CO2 eq] during manufacturing       5.27 kg         global warming potential [CO2 eq] during operation       87.6 kg         global warming potential [CO2 eq] after end of life       -0.84 kg	during transport	-50 +80 °C
Environmental footprint         Environmental Product Declaration(EPD)       Yes         global warming potential [CO2 eq] total       92.1 kg         global warming potential [CO2 eq] during manufacturing       5.27 kg         global warming potential [CO2 eq] during operation       87.6 kg         global warming potential [CO2 eq] after end of life       -0.84 kg         Main circuit       -0.84 kg	temperature compensation	-20 +60 °C
Environmental Product Declaration(EPD)       Yes         global warming potential [CO2 eq] total       92.1 kg         global warming potential [CO2 eq] during manufacturing       5.27 kg         global warming potential [CO2 eq] during operation       87.6 kg         global warming potential [CO2 eq] after end of life       -0.84 kg         Main circuit       -0.84 kg	relative humidity during operation	10 95 %
global warming potential [CO2 eq] total       92.1 kg         global warming potential [CO2 eq] during manufacturing       5.27 kg         global warming potential [CO2 eq] during operation       87.6 kg         global warming potential [CO2 eq] after end of life       -0.84 kg         Main circuit       -0.84 kg	Environmental footprint	
global warming potential [CO2 eq] during manufacturing       5.27 kg         global warming potential [CO2 eq] during operation       87.6 kg         global warming potential [CO2 eq] after end of life       -0.84 kg         Main circuit       -0.84 kg	Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] during operation       87.6 kg         global warming potential [CO2 eq] after end of life       -0.84 kg         Main circuit       -0.84 kg	global warming potential [CO2 eq] total	92.1 kg
global warming potential [CO2 eq] after end of life -0.84 kg Main circuit	global warming potential [CO2 eq] during manufacturing	5.27 kg
Main circuit	global warming potential [CO2 eq] during operation	87.6 kg
	global warming potential [CO2 eq] after end of life	-0.84 kg
number of poles for main current circuit 3	Main circuit	
	number of poles for main current circuit	3

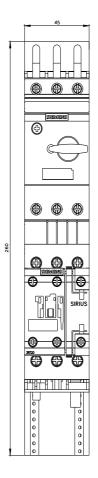
design of the switching contact	electromechanical
design of the switching contact	
adjustable current response value current of the current- dependent overload release	13 20 A
operating voltage	
rated value	690 V
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current	
at AC-3 at 400 V rated value	20 A
at AC-3e at 400 V rated value	20 A
operating power	
• at AC-3	
— at 400 V rated value	7 500 W
• at AC-3e	
— at 400 V rated value	7 500 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	230 V
apparent holding power of magnet coil at AC	9.8 VA
• at 50 Hz	9.8 VA
inductive power factor with the holding power of the coil	0.25
at 50 Hz	0.25
Auxiliary circuit	0.23
	Vee
product extension auxiliary switch	Yes
Protective and monitoring functions	01 400 40
trip class	CLASS 10
design of the overload release	thermal (bimetallic)
response value current of instantaneous short-circuit trip unit	260 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value	20.4
	20 A
	20 A
• at 600 V rated value	20 A
at 600 V rated value     yielded mechanical performance [hp]	20 A
at 600 V rated value  yielded mechanical performance [hp]      for single-phase AC motor	
at 600 V rated value      yielded mechanical performance [hp]      for single-phase AC motor          — at 110/120 V rated value	1.5 hp
at 600 V rated value  yielded mechanical performance [hp]      for single-phase AC motor      — at 110/120 V rated value      — at 230 V rated value	
at 600 V rated value      yielded mechanical performance [hp]      o for single-phase AC motor          — at 110/120 V rated value          — at 230 V rated value      o for 3-phase AC motor	1.5 hp 3 hp
at 600 V rated value      yielded mechanical performance [hp]      for single-phase AC motor          — at 110/120 V rated value          — at 230 V rated value      for 3-phase AC motor          — at 200/208 V rated value	1.5 hp 3 hp 7.5 hp
at 600 V rated value      yielded mechanical performance [hp]      for single-phase AC motor          — at 110/120 V rated value          — at 230 V rated value          for 3-phase AC motor          — at 200/208 V rated value          — at 220/230 V rated value          — at 220/230 V rated value	1.5 hp 3 hp 7.5 hp 7.5 hp
<ul> <li>at 600 V rated value</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> <li>for 3-phase AC motor <ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> </ul> </li> </ul>	1.5 hp 3 hp 7.5 hp
at 600 V rated value      yielded mechanical performance [hp]      o for single-phase AC motor          — at 110/120 V rated value          — at 230 V rated value          o for 3-phase AC motor          — at 200/208 V rated value          — at 220/230 V rated value          — at 460/480 V rated value          Short-circuit protection	1.5 hp 3 hp 7.5 hp 7.5 hp 15 hp
at 600 V rated value      yielded mechanical performance [hp]      o for single-phase AC motor          — at 110/120 V rated value          — at 230 V rated value          o for 3-phase AC motor          — at 200/208 V rated value          — at 220/230 V rated value          — at 460/480 V rated value      Short-circuit protection      product function short circuit protection	1.5 hp 3 hp 7.5 hp 7.5 hp 15 hp
at 600 V rated value      yielded mechanical performance [hp]      for single-phase AC motor          — at 110/120 V rated value          — at 230 V rated value          for 3-phase AC motor          — at 200/208 V rated value          — at 220/230 V rated value          — at 460/480 V rated value      Short-circuit protection      product function short circuit protection      design of the short-circuit trip	1.5 hp 3 hp 7.5 hp 7.5 hp 15 hp
at 600 V rated value      yielded mechanical performance [hp]      for single-phase AC motor          — at 110/120 V rated value          — at 230 V rated value          for 3-phase AC motor          — at 200/208 V rated value          — at 220/230 V rated value          — at 460/480 V rated value          Short-circuit protection      product function short circuit protection      design of the short-circuit current (lq)	1.5 hp 3 hp 7.5 hp 7.5 hp 15 hp Yes magnetic
at 600 V rated value      yielded mechanical performance [hp]      o for single-phase AC motor          — at 110/120 V rated value          — at 230 V rated value          ofor 3-phase AC motor          — at 200/208 V rated value          — at 220/230 V rated value          — at 460/480 V rated value          Short-circuit protection      product function short circuit protection      design of the short-circuit trip      conditional short-circuit current (lq)          o at 400 V according to IEC 60947-4-1 rated value	1.5 hp 3 hp 7.5 hp 7.5 hp 15 hp
at 600 V rated value      yielded mechanical performance [hp]      o for single-phase AC motor          — at 110/120 V rated value          — at 230 V rated value          — at 230 V rated value          — at 200/208 V rated value          — at 220/230 V rated value          — at 460/480 V rated value          Short-circuit protection      product function short circuit protection      design of the short-circuit trip      conditional short-circuit current (lq)          • at 400 V according to IEC 60947-4-1 rated value	1.5 hp 3 hp 7.5 hp 7.5 hp 15 hp Yes magnetic 150 000 A
at 600 V rated value      yielded mechanical performance [hp]      o for single-phase AC motor          — at 110/120 V rated value          — at 230 V rated value          — at 230 V rated value          — at 200/208 V rated value          — at 220/208 V rated value          — at 220/208 V rated value          — at 460/480 V rated value          Short-circuit protection      product function short circuit protection      design of the short-circuit trip      conditional short-circuit current (lq)          • at 400 V according to IEC 60947-4-1 rated value      Installation/ mounting/ dimensions      mounting position	1.5 hp 3 hp 7.5 hp 7.5 hp 15 hp Yes magnetic 150 000 A
at 600 V rated value      yielded mechanical performance [hp]      o for single-phase AC motor          — at 110/120 V rated value          — at 230 V rated value          — at 230 V rated value          — at 200/208 V rated value          — at 220/208 V rated value          — at 460/480 V rated value          — at 460/480 V rated value          Short-circuit protection          product function short circuit protection          design of the short-circuit trip          conditional short-circuit current (lq)	1.5 hp 3 hp 7.5 hp 7.5 hp 15 hp Yes magnetic 150 000 A vertical for snapping onto 60 mm busbar systems
at 600 V rated value      yielded mechanical performance [hp]      o for single-phase AC motor          — at 110/120 V rated value          — at 230 V rated value          — at 200/208 V rated value          — at 220/208 V rated value          — at 220/208 V rated value          — at 460/480 V rated value          Short-circuit protection      product function short circuit protection      design of the short-circuit trip      conditional short-circuit trip      conditional short-circuit go to EC 60947-4-1 rated value      Installation/ mounting/ dimensions      mounting position      fastening method      height	1.5 hp 3 hp 7.5 hp 7.5 hp 15 hp Yes magnetic 150 000 A vertical for snapping onto 60 mm busbar systems 260 mm
at 600 V rated value      yielded mechanical performance [hp]      for single-phase AC motor          — at 110/120 V rated value          — at 230 V rated value          — at 200/208 V rated value          — at 220/208 V rated value          — at 220/208 V rated value          — at 460/480 V rated value          — at 460/480 V rated value          Short-circuit protection      product function short circuit protection      design of the short-circuit trip      conditional short-circuit current (lq)          • at 400 V according to IEC 60947-4-1 rated value      Installation/ mounting/ dimensions      mounting position      fastening method      height      width	1.5 hp 3 hp 7.5 hp 7.5 hp 15 hp Ves magnetic 150 000 A vertical for snapping onto 60 mm busbar systems 260 mm 45 mm
at 600 V rated value      yielded mechanical performance [hp]      o for single-phase AC motor          — at 110/120 V rated value          — at 230 V rated value          — at 230 V rated value          — at 200/208 V rated value          — at 220/200 V rated value          — at 460/480 V rated value          — at 460/480 V rated value          Short-circuit protection          product function short circuit protection          design of the short-circuit trip          conditional short-circuit current (lq)              • at 400 V according to IEC 60947-4-1 rated value          Installation/ mounting/ dimensions      mounting position     fastening method      height      width      depth	1.5 hp 3 hp 7.5 hp 7.5 hp 15 hp Yes magnetic 150 000 A vertical for snapping onto 60 mm busbar systems 260 mm
at 600 V rated value      yielded mechanical performance [hp]      o for single-phase AC motor          — at 110/120 V rated value          — at 230 V rated value          — at 200/208 V rated value          — at 220/208 V rated value          — at 220/208 V rated value          — at 460/480 V rated value          — at 460/480 V rated value          Short-circuit protection      product function short circuit protection      design of the short-circuit trip      conditional short-circuit current (lq)          • at 400 V according to IEC 60947-4-1 rated value      Installation/ mounting/ dimensions      mounting position     fastening method      height      width      depth      required spacing	1.5 hp 3 hp 7.5 hp 7.5 hp 15 hp Ves magnetic 150 000 A vertical for snapping onto 60 mm busbar systems 260 mm 45 mm
at 600 V rated value      yielded mechanical performance [hp]      o for single-phase AC motor          — at 110/120 V rated value          — at 230 V rated value          — at 230 V rated value          — at 200/208 V rated value          — at 220/208 V rated value          — at 220/200 V rated value          — at 460/480 V rated value          — at 460/480 V rated value          Short-circuit protection      product function short circuit protection      design of the short-circuit trip      conditional short-circuit trip      conditional short-circuit current (lq)      o at 400 V according to IEC 60947-4-1 rated value      Installation/ mounting/ dimensions      mounting position      fastening method      height      width      depth      required spacing      o for grounded parts	1.5 hp 3 hp 7.5 hp 7.5 hp 15 hp Yes magnetic 150 000 A Vertical for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm
<ul> <li>at 600 V rated value</li> <li>yielded mechanical performance [hp]         <ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 460/480 V rated value</li> </ul> </li> <li>Short-circuit protection</li> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> <li>conditional short-circuit current (lq)             <ul> <li>at 400 V according to IEC 60947-4-1 rated value</li> </ul> </li> <li>Installation/ mounting/ dimensions         <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing             <ul> <li>for grounded parts</li> <li>for grounded parts</li> <li>for wards</li> </ul> </li> </ul></li></ul>	1.5 hp 3 hp 7.5 hp 7.5 hp 15 hp Yes magnetic 150 000 A vertical for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm
<ul> <li>at 600 V rated value</li> <li>yielded mechanical performance [hp]         <ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 460/480 V rated value</li> </ul> </li> <li>Short-circuit protection</li> <li>design of the short-circuit protection</li> <li>design of the short-circuit trip</li> <li>conditional short-circuit current (lq)             <ul> <li>at 400 V according to IEC 60947-4-1 rated value</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing</li> <li>for grounded parts</li> <li>for wards</li> <li>backwards</li> </ul> </li> </ul>	1.5 hp 3 hp 7.5 hp 7.5 hp 15 hp Yes magnetic 150 000 A vertical for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 20 mm 0 mm
<ul> <li>at 600 V rated value</li> <li>yielded mechanical performance [hp]         <ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 460/480 V rated value</li> </ul> </li> <li>Short-circuit protection         <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> <li>conditional short-circuit current (lq)                 <ul></ul></li></ul></li></ul>	1.5 hp 3 hp 7.5 hp 7.5 hp 15 hp Yes magnetic 150 000 A Vertical for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 20 mm 0 mm 50 mm
<ul> <li>at 600 V rated value</li> <li>yielded mechanical performance [hp] <ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> </ul> </li> <li>Short-circuit protection <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> <li>conditional short-circuit current (lq) <ul> <li>at 400 V according to IEC 60947-4-1 rated value</li> </ul> </li> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>for grounded parts</li> <li>for grounded parts</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>at the side</li> </ul> </li> </ul></li></ul>	1.5 hp 3 hp 7.5 hp 7.5 hp 15 hp Yes magnetic 150 000 A Vertical for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 20 mm 0 mm 50 mm 20 mm 20 mm
<ul> <li>at 600 V rated value</li> <li>yielded mechanical performance [hp]         <ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 460/480 V rated value</li> </ul> </li> <li>Short-circuit protection         <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> <li>conditional short-circuit current (lq)                 <ul></ul></li></ul></li></ul>	1.5 hp 3 hp 7.5 hp 7.5 hp 15 hp Yes magnetic 150 000 A Vertical for snapping onto 60 mm busbar systems 260 mm 45 mm 155 mm 20 mm 0 mm 50 mm

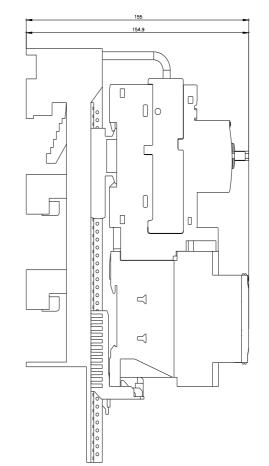
<ul> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul>	0 n 50 10	mm nm mm mm		
Connections/ Terminals				
type of electrical connection				
• for main current circuit		rew-type terminals		
<ul> <li>for auxiliary and control circuit</li> </ul>	SCI	rew-type terminals		
Safety related data				
product function suitable for safety function	Ye	S		
Electrical Safety				
touch protection on the front according to IEC	<b>60529</b> fing	ger-safe, for vertical contac	t from the front	
Communication/ Protocol				
protocol is supported				
PROFINET IO protocol	No			
PROFIsafe protocol	No			
protocol is supported AS-Interface protocol	No	1		
Approvals Certificates				
General Product Approval				For use in hazard- ous locations
CE UK EG-Konf.	<u>Confirmation</u>	(U) II	EHC	<b>Ex</b> ATEX
Test Certificates	Marine / Shipping			
Special Test Certific- ate Type Test Certific- ates/Test Report	ABS	BUREAU VERITAS		Lloyd's Register uts
Marine / Shipping		other	Railway	Environment
PRS RINA	RMRS	<u>Confirmation</u>	Special Test Certific- ate	EPD
Environment				
Environmental Con- firmations				
Further information Information on the packaging https://support.industry.siemens.com/cs/ww/en/vi Information- and Downloadcenter (Catalogs, E https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/Cata Cax online generator	Brochures,)	<u>\$2120-4BD27-0AP0</u>		

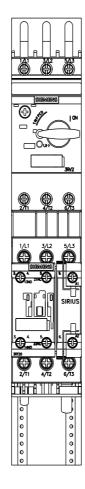
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-4BD27-0AP0/char

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





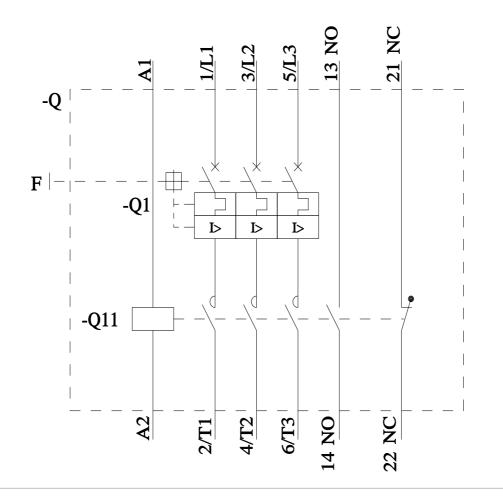




3RA21204BD270AP0 Page 4/5

2/19/2025

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6/5/2024 🖸

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