## **SIEMENS**

Data sheet 3RA6120-2CB33



SIRIUS Compact load feeder DOL starter 690 V 24 V AC/DC 50...60 Hz 1...4 A IP20 Connection main circuit: plug-in, without terminals Connection auxiliary circuit: Spring-type terminal

product type designation  design of the product product type designation  General technical data product function control circuit interface to parallel wiring product extension auxiliary switch product extension auxiliary switch  ***********************************	product brand name	SIRIUS
product type designation  General technical data  product function control circuit interface to parallel wiring product function control circuit interface to parallel wiring product extension auxiliary switch  **at AC in hot operating state   1 W  **at AC in hot operating state per pole   0.33 W  **without load current share typical   2.9 W  insulation voltage rated value   689 V  degree of pollution   3  surge voltage resistance rated value   6 000 V  maximum permissible voltage for protective separation  **between main and auxiliary circuit   250 V  **between auxiliary and auxiliary circuit   300 V  degree of protection NEMA rating   500 V  degree of protection NEMA rating   500 V  degree of protection NEMA rating   500 V  second protection NEMA rating   500 V  **control of the main contacts typical   10 000 000   500 V  **control of the main contacts typical   10 000 000   500 V  **of the main contacts typical   10 000 000   500 V  **electrical endurance (operating cycles)   10 000 000   500 V  **electrical endurance (operating cycles)   10 000 000   500 V  **destrol of the signaling contacts typical   10 000 000   500 V  **pe of assignment   500 V  **electrical endurance (operating cycles)   10 000 000   500 V  **general operation of the current of the curr	product designation	compact starter
Ceneral technical data product function control circuit interface to parallel wiring product extension auxiliary switch  power loss [W] for rated value of the current  • at AC in hot operating state 1	design of the product	direct starter
product function control circuit interface to parallel wiring product extension auxiliary switch power loss [W] for rated value of the current  • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical • without load current share typical • without load current share typical • g690 V  degree of pollution 3 surge voltage resistance rated value 6 6 000 V  maximum permissible voltage for protective separation • between main and auxiliary circuit • between auxiliary and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit  shock resistance  ### data for the main contacts typical • of the main contacts typical • of the signaling contacts typical	product type designation	3RA61
product extension auxiliary switch power loss [W] for rated value of the current  at AC in hot operating state per pole at AC in hot operating state per pole without load current share typical without load current share typical surge voltage rated value degree of pollution between main and auxiliary circuit between auxiliary and auxiliary circuit between control and auxiliary contacts between control and auxiliary contacts typical between control and auxiliary contacts typical between control and auxiliary contacts continous operation according to IEC 60947-6-2  Weight  1.397 kg  Ambient conditions  installation altitude at height above sea level maximum  2 000 m  ambient temperature	General technical data	
power loss [W] for rated value of the current  at AC in hot operating state 1W at AC in hot operating state pole 0.33 W without load current share typical 2.9 W insulation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 6000 V maximum permissible voltage for protective separation between main and auxiliary circuit 400 V between auxiliary and auxiliary circuit 250 V between control and auxiliary circuit 300 V degree of protection NEMA rating other shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) of the main contacts typical 10 000 000 of auxiliary contacts typical 10 000 000 of the signaling contacts typical 10 000 000 electrical endurance (operating cycles) of auxiliary contacts at DC-13 at 6 A at 24 V typical 30 000 at AC-15 at 6 A at 230 V typical 200 000 type of assignment contacts reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012 SVHC substance name Leaf monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 Weight 1.397 kg Ambient conditions inistallation altitude at height above sea level maximum 2 000 m amblent temperature	product function control circuit interface to parallel wiring	Yes
at AC in hot operating state per pole  at AC in hot operating state per pole  without load current share typical  ewithout load current share typical  finsulation voltage rated value  fego V  degree of pollution  surge voltage resistance rated value  fe 5000 V  maximum permissible voltage for protective separation  between main and auxiliary circuit  between auxiliary and auxiliary circuit  between control and auxiliary circuit  between control and auxiliary circuit  shock resistance  a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes  wibration resistance  fe 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles  mechanical service life (operating cycles)  of the main contacts typical  of auxiliary contacts typical  of the signaling contacts typical  of the signaling contacts typical  electrical endurance (operating cycles) of auxiliary contacts  at DC-13 at 6 A at 24 V typical  oat AC-15 at 6 A at 230 V typical  to continous operation according to IEC 81346-2  Quote the substance on the continuous operation according to IEC 60947-6-2  reference code according to IEC 81346-2  Quote the continuous operation according to IEC 8047-6-2  Reference code according to IEC 81346-2  Quote the continuous operation according to IEC 80947-6-2  Lead transport.  Weight  1.397 kg  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature	product extension auxiliary switch	Yes
at AC in hot operating state per pole  without load current share typical  insulation voltage rated value  degree of pollution  surge voltage resistance rated value  between main and auxiliary circuit  between main and auxiliary circuit  between control and auxiliary circuit  about a see of m/s2 (6g) with 10 ms per 3 shocks in all axes  wibration resistance  fea 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles  mechanical service life (operating cycles)  of the main contacts typical  of the main contacts typical  of the signaling contacts typical  of the signaling contacts typical  leactrical endurance (operating cycles) of auxiliary contacts  e at DC-13 at 6 A at 24 V typical  at AC-15 at 6 A at 230 V typical  continous operation according to IEC 60947-6-2  Teference code according to IEC 81346-2  Q  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Lead monoxide (lead oxide) - 1317-36-8  Lead titanium zirconium oxide - 12626-81-2  Meight  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature	power loss [W] for rated value of the current	
without load current share typical 2.9 W     insulation voltage rated value 690 V     degree of pollution 3     surge voltage resistance rated value 6000 V     maximum permissible voltage for protective separation     between main and auxiliary circuit 400 V     between auxiliary and auxiliary circuit 250 V     between control and auxiliary circuit 300 V     degree of protection NEMA rating other shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes     vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes     vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes     vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes     vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes     vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes     vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes     vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes     vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes     vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes     vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes     vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes     vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes     vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes     vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes     vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes     vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes     vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes     vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes     vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes     vibration resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes     vibration resistance a=60 m/s2 (6g) with 10 ms per	<ul> <li>at AC in hot operating state</li> </ul>	1 W
insulation voltage rated value  degree of pollution  surge voltage resistance rated value  maximum permissible voltage for protective separation  • between main and auxiliary circuit  • between auxiliary and auxiliary circuit  • between control and auxiliary circuit  degree of protection NEMA rating  shock resistance  = 60 m/s2 (6g) with 10 ms per 3 shocks in all axes  vibration resistance  = 60 m/s2 (6g) with 10 ms per 3 shocks in all axes  vibration resistance  = 60 m/s2 (6g) with 10 ms per 3 shocks in all axes  vibration resistance  = 61 m/s2 (6g) with 10 ms per 3 shocks in all axes  vibration resistance  = 60 m/s2 (6g) with 10 ms per 3 shocks in all axes  vibration resistance  = 60 m/s2 (6g) with 10 ms per 3 shocks in all axes  vibration resistance  10 000 000  • of the main contacts typical  • of the main contacts typical  • of the signaling contacts typical  • at DC-13 at 6 A at 24 V typical  • at DC-13 at 6 A at 23 V typical  • at AC-15 at 6 A at 230 V typical  • at AC-15 at 6 A at 230 V typical  • of assignment  continous operation according to IEC 60947-6-2  Treference code according to IEC 81346-2  Q  Substance Prohibitance (Date)  SVHC substance name  Lead -7439-92-1  Lead -7439-92-1  Lead monoxide (lead oxide) - 1317-36-8  Lead titanium zirconium oxide - 12626-81-2  Weight  Amblent conditions  installation altitude at height above sea level maximum  ambient temperature	<ul> <li>at AC in hot operating state per pole</li> </ul>	0.33 W
degree of pollution surge voltage resistance rated value 6 000 V  maximum permissible voltage for protective separation • between main and auxiliary circuit • between auxillary and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit 300 V  degree of protection NEMA rating shock resistance  shock resistance  = 60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance  fe 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s³; 10 cycles  mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of the signaling contacts typical • of the signaling contacts typical • of the signaling contacts typical • at DC-13 at 6 A at 24 V typical • at AC-15 at 6 A at 230 V typical  200 000  type of assignment  continous operation according to IEC 60947-6-2  Treference code according to IEC 81346-2  Q Substance Prohibitance (Date)  SVHC substance name  Lead -7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead itlanium zirconium oxide - 12626-81-2  Weight  Ambient conditions  installation altitude at height above sea level maximum ambient temperature	without load current share typical	2.9 W
surge voltage resistance rated value  maximum permissible voltage for protective separation  • between main and auxiliary circuit  • between main and auxiliary circuit  • between control and auxiliary circuit  degree of protection NEMA rating  shock resistance  • a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes  vibration resistance  f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles  mechanical service life (operating cycles)  • of the main contacts typical  • of auxiliary contacts typical  • of the signaling contacts typical  • of the signaling contacts typical  • of the signaling contacts typical  • at DC-13 at 6 A at 24 V typical  • at DC-13 at 6 A at 24 V typical  • at AC-15 at 6 A at 230 V typical  • at AC-15 at 6 A at 230 V typical  • at AC-15 at 6 A at 230 V typical  • continous operation according to IEC 60947-6-2  reference code according to IEC 81346-2  Q  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Lead monoxide (lead oxide) - 1317-36-8  Lead titanium zirconium oxide - 12626-81-2  Weight  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature	insulation voltage rated value	690 V
maximum permissible voltage for protective separation  • between main and auxiliary circuit • between auxiliary and auxiliary circuit • between control and auxiliary circuit • between control and auxiliary circuit 300 V  degree of protection NEMA rating other shock resistance  vibration resistance  mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of the signaling contacts typical • of the signaling contacts typical • of the 3 at 6 A at 24 V typical • at DC-13 at 6 A at 24 V typical • at DC-13 at 6 A at 230 V typical • at AC-15 at 6 A at 230 V typical  vipe of assignment reference code according to IEC 81346-2 Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead tittanium zirconium oxide - 12626-81-2  Weight  Ambient conditions installation altitude at height above sea level maximum ambient temperature	degree of pollution	3
between main and auxiliary circuit     between auxiliary and auxiliary circuit     between control and auxiliary circuit     between control and auxiliary circuit     300 V  degree of protection NEMA rating     other  shock resistance     a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes  vibration resistance     f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles  mechanical service life (operating cycles)     of the main contacts typical     of auxiliary contacts typical     of auxiliary contacts typical     of the signaling contacts typical     of the signaling contacts typical     of the Signaling contacts typical     of at 24 V typical     at DC-13 at 6 A at 24 V typical     at AC-15 at 6 A at 230 V typical     oat AC-15 at 6 A at 230 V typical     oat AC-15 at 6 A at 230 V typical     verification of the signaling to IEC 81346-2     Substance Prohibitance (Date)     SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead itinalized (lead oxide) - 1317-36-8 Lead itinalized in altitude at height above sea level maximum     ambient temperature	surge voltage resistance rated value	6 000 V
between auxiliary and auxiliary circuit     between control and auxiliary circuit     other     shock resistance     shock resistance     including a service life (operating cycles)     of the main contacts typical     of auxiliary contacts typical     of the signaling contacts typical     of	maximum permissible voltage for protective separation	
between control and auxilliary circuit  degree of protection NEMA rating shock resistance  vibration resistance  f = 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles  mechanical service life (operating cycles)     of the main contacts typical     of auxiliary contacts typical     of the signaling contacts typical     of the signaling contacts typical  electrical endurance (operating cycles) of auxiliary contacts     at DC-13 at 6 A at 24 V typical     at AC-15 at 6 A at 230 V typical     ontinous operation according to IEC 60947-6-2  reference code according to IEC 81346-2 Q Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2  Weight  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature	<ul> <li>between main and auxiliary circuit</li> </ul>	400 V
degree of protection NEMA rating shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles  mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical of the signaling co	<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	250 V
shock resistance  vibration resistance  f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles  mechanical service life (operating cycles)  of the main contacts typical of the signaling contacts ty	between control and auxiliary circuit	300 V
vibration resistance  mechanical service life (operating cycles)  • of the main contacts typical  • of auxiliary contacts typical  • of the signaling contacts typical  • of the signaling contacts typical  • of the signaling contacts typical  • at DC-13 at 6 A at 24 V typical  • at AC-15 at 6 A at 230 V typical  • at AC-15 at 6 A at 230 V typical  • at AC-15 at 6 A at 230 V typical  • at AC-15 at 6 A at 230 V typical  • of the signaling contacts  • at DC-13 at 6 A at 230 V typical  • at AC-15 at 6 A at 230 V typical  • at AC-15 at 6 A at 230 V typical  • of the signaling contacts typical  • at AC-15 at 6 A at 230 V typical  • at AC-15 at 6 A at 240 V typical  • at AC-15 at 6 A at 240 V typical  • at AC-15 at 6 A at 240 V typical  • at AC-15 at 6 A at 240 V typical  • at AC-15 at 6 A at 240 V typical  • at AC-15 at 6 A at 240 V typical  • at AC-15 at 6 A at 240 V typical  • at AC-15 at 6 A at 240 V typical  • at AC-15 at 6 A at 240 V typical  • at AC-15 at 6 A at 240 V typical  • at AC-15 at 6 A at 240 V typical  • at AC-15 at 6 A at 240 V typical  • at AC-15 at 6 A at 240 V typical  • at AC-15	degree of protection NEMA rating	other
mechanical service life (operating cycles)  of the main contacts typical of auxiliary contacts typical of the signaling contacts typical of the signaline contacts typical of the signaline contacts typical of the signaline contacts typical of th	shock resistance	a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes
of the main contacts typical     of auxiliary contacts typical     of the signaling contacts typical	vibration resistance	f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles
of auxiliary contacts typical     of the signaling contacts typical     of the signaling contacts typical     of the signaling contacts typical     one of the signaling contacts      one of the signaling contacts typical     one of the signaling contacts      one of the signaling contacts typical     one of the signaling contacts      one of the signaling contacts typical     one of the signaling contacts typical      one of the signaling contacts typical      one of the signaling contacts typical      one of the signaling contacts typical      one of the signaling contacts typical      one of the signaling contacts typical      one of the signaling contacts typical      one of the signaling contacts typical      one of the signaling contacts typical      one of the signaling contacts typical      one of the signaling contacts      one of	mechanical service life (operating cycles)	
of the signaling contacts typical     electrical endurance (operating cycles) of auxiliary contacts         • at DC-13 at 6 A at 24 V typical             • at AC-15 at 6 A at 230 V typical             • at AC-15 at 6 A at 230 V typical             • continous operation according to IEC 60947-6-2              reference code according to IEC 81346-2	<ul> <li>of the main contacts typical</li> </ul>	10 000 000
electrical endurance (operating cycles) of auxiliary contacts  • at DC-13 at 6 A at 24 V typical  • at AC-15 at 6 A at 230 V typical  type of assignment  continous operation according to IEC 60947-6-2  reference code according to IEC 81346-2  Q  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Lead monoxide (lead oxide) - 1317-36-8  Lead titanium zirconium oxide - 12626-81-2  Weight  1.397 kg  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature	<ul> <li>of auxiliary contacts typical</li> </ul>	10 000 000
<ul> <li>at DC-13 at 6 A at 24 V typical</li> <li>at AC-15 at 6 A at 230 V typical</li> <li>200 000</li> <li>type of assignment</li> <li>continous operation according to IEC 60947-6-2</li> <li>reference code according to IEC 81346-2</li> <li>Q</li> <li>Substance Prohibitance (Date)</li> <li>SVHC substance name</li> <li>Lead - 7439-92-1</li> <li>Lead monoxide (lead oxide) - 1317-36-8</li> <li>Lead titanium zirconium oxide - 12626-81-2</li> <li>Weight</li> <li>1.397 kg</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> </ul>	of the signaling contacts typical	10 000 000
● at AC-15 at 6 A at 230 V typical  type of assignment  continous operation according to IEC 60947-6-2  reference code according to IEC 81346-2  Q  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Lead monoxide (lead oxide) - 1317-36-8  Lead titanium zirconium oxide - 12626-81-2  Weight  1.397 kg  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature	electrical endurance (operating cycles) of auxiliary contacts	
type of assignment  continous operation according to IEC 60947-6-2  reference code according to IEC 81346-2  Q Substance Prohibitance (Date)  5VHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2  Weight  1.397 kg  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature	• at DC-13 at 6 A at 24 V typical	30 000
reference code according to IEC 81346-2  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2  Weight  1.397 kg  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature	• at AC-15 at 6 A at 230 V typical	200 000
Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2  Weight  1.397 kg  Ambient conditions installation altitude at height above sea level maximum ambient temperature	type of assignment	continous operation according to IEC 60947-6-2
SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2  Weight  1.397 kg  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature	reference code according to IEC 81346-2	Q
Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2  Weight  1.397 kg  Ambient conditions installation altitude at height above sea level maximum  ambient temperature	Substance Prohibitance (Date)	05/01/2012
Ambient conditions installation altitude at height above sea level maximum ambient temperature  2 000 m	SVHC substance name	Lead monoxide (lead oxide) - 1317-36-8
installation altitude at height above sea level maximum 2 000 m ambient temperature	Weight	1.397 kg
ambient temperature	Ambient conditions	
	installation altitude at height above sea level maximum	2 000 m
	ambient temperature	
◆ during operation     −20 +60 °C	during operation	-20 +60 °C
• during storage -55 +80 °C	during storage	-55 +80 °C
• during transport -55 +80 °C	during transport	-55 +80 °C

relative humidity during operation	10 90 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current-	1 4 A
dependent overload release	1 4 A
formula for making capacity limit current	12 x le
formula for limit current breaking capacity	10 x le
yielded mechanical performance for 4-pole AC motor	
at 400 V rated value	1.5 kW
• at 500 V rated value	2.2 kW
• at 690 V rated value	3 kW
operating voltage at AC-3 rated value maximum	690 V
operational current	
<ul> <li>at AC at 400 V rated value</li> </ul>	4 A
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	4 A
• at AC-43	
— at 400 V rated value	3.6 A
— at 500 V rated value	3.9 A
— at 690 V rated value	3.8 A
operating power	
at AC-3 at 400 V rated value	1.5 kW
• at AC-43	
— at 400 V rated value	1 500 W
— at 500 V rated value	2 200 W
— at 690 V rated value	3 000 W
no-load switching frequency	3 600 1/h
operating frequency	0 000 1/11
at AC-41 according to IEC 60947-6-2 maximum	750 1/h
• at AC-43 according to IEC 60947-6-2 maximum	250 1/h
Control circuit/ Control	200 1111
	AC/DC
type of voltage  control supply voltage 1 at AC	AGIDO
• at 50 Hz rated value	24 V
• at 50 Hz	24 24 V
at 60 Hz rated value	24 V
• at 60 Hz	24 V
control supply voltage frequency	Z4 V
• 1 rated value	50 Hz
• 2 rated value	60 Hz
control supply voltage 1 at DC rated value	24 V
control supply voltage 1 at DC rated value	
	24 24 V
holding power  • at AC maximum	2.8 W
at AC maximum     at DC maximum	2.8 W
	Z.J VV
Auxiliary circuit	1
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of NO contacts of instantaneous short-circuit trip unit for signaling contact	1
number of CO contacts of the current-dependent overload	1
release for signaling contact	
operational current of auxiliary contacts at AC-12 maximum	10 A
operational current of auxiliary contacts at DC-13 at 250 V	0.27 A
Protective and monitoring functions	
trip class	CLASS 10 and 20 adjustable
operating short-circuit current breaking capacity (lcs)	
at 400 V rated value	53 kA
• at 500 V rated value	3 kA
<ul><li>at 500 V rated value</li><li>at 690 V rated value</li></ul>	3 kA
at 690 V rated value	

-t-400 \ /td-v-lv	
at 480 V rated value	4 A
at 600 V rated value  Violded machanical performance [hp] for 3 phase AC mater.	4 A
yielded mechanical performance [hp] for 3-phase AC motor	0.75 hp
• at 200/208 V rated value	0.75 hp
• at 220/230 V rated value	0.75 hp
at 460/480 V rated value     t 575/600 V rated value	2 hp
at 575/600 V rated value	3 hp
contact rating of auxiliary contacts according to UL	contacts 21-22, 13-14, 43-44 Q600 / A600, contacts 77-78 R300 / B300, contacts 95-96-98 R300 / D300
Short-circuit protection	
product function short circuit protection	Yes
design of short-circuit protection	electromagnetic
design of the fuse link	
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 10 A
<ul> <li>for short-circuit protection of the signaling switch of the short-circuit release required</li> </ul>	6A gL/gG/400V
for short-circuit protection of the signaling switch of the overload release required	4A gL/gG/400V
Installation/ mounting/ dimensions	
mounting position	any
mounting position recommended	vertical, on horizontal standard DIN rail
fastening method	screw and snap-on mounting
height	191 mm
width	45 mm
depth	165 mm
Connections/ Terminals	
product component removable terminal for main circuit	Yes
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
for main current circuit	plug-in without terminals
for auxiliary and control circuit	spring-loaded terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (1.5 6 mm²), 1x 10 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1.5 6 mm²)
finely stranded without core end processing	2x (1.5 6 mm²)
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid	2x (0.25 1.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.25 1.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.25 1.5 mm²)
for AWG cables for auxiliary contacts	2x (24 16)
Safety related data	
proportion of dangerous failures	
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920	50 %
B10 value with high demand rate according to SN 31920	3 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
IEC 61508	
T1 value for proof test interval or service life according to IEC	20 a
61508	
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe
Communication/ Protocol	
product function bus communication	No
protocol is supported	
AS-Interface protocol	No
IO-Link protocol	No
product function control circuit interface with IO link	No
Electromagnetic compatibility	

conducted interference	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	4 kV main contacts, 2 kV auxiliary contacts
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	4 kV main contacts, 2 kV auxiliary contacts
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	2 kV main contacts, 1 kV auxiliary contacts
<ul> <li>due to high-frequency radiation according to IEC 61000- 4-6</li> </ul>	0.15-80Mhz at 10V
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	8 kV
conducted HF interference emissions according to CISPR11	150 kHz 30 MHz Class A
field-bound HF interference emission according to CISPR11	30 1000 MHz Class A
Supply voltage	
Supply voltage required Auxiliary voltage	No
Display	
number of LEDs	2
Approvals Certificates	
General Product Approval	





Confirmation





EMV

**Functional Saftey** 

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report







other **Dangerous goods Environment** 

Confirmation

**Transport Information** 

**Environmental Confirmations** 

Information on the packaging

om/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=3RA6120-2CB33

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6120-2CB33

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

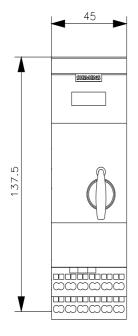
https://support.industry.siemens.com/cs/ww/en/ps/3RA6120-2CB3

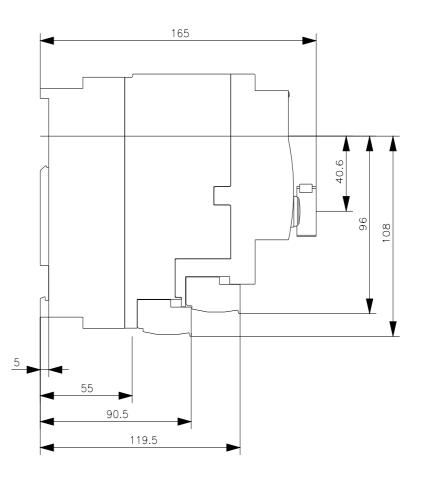
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

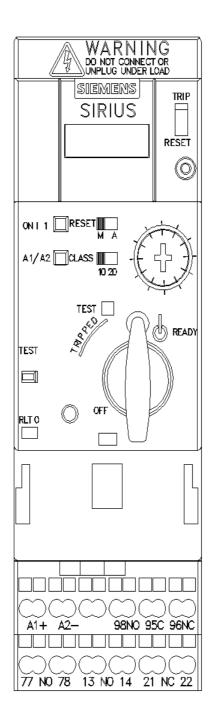
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA6120-2CB33&lang=en

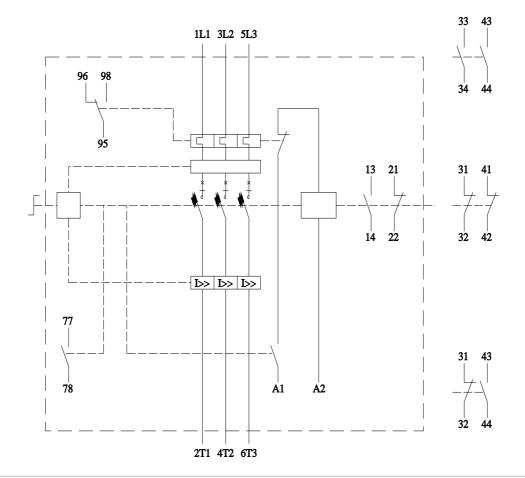
Characteristic: Tripping characteristics, I2t, Let-through current

Further characteristics (e.g. electrical endurance, switching frequency) <a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6120-2CB33&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6120-2CB33&objecttype=14&gridview=view1</a>









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