

Product data sheet 3RU2126-1KB0

OVERLOAD RELAY 9.0...12.5 A FOR MOTOR PROTECTION BGR S00, CLASS 10 FOR MOUNTING ONTO CONTACTORS MAIN CIRCUIT:SCREW TERMINAL

Protection class IP / frontal/front side P20 Insulation voltage / with degree of pollution 3 valed value P20 Altitude of installation site / at a height over sea level / max/mum P20 Ambient temperature P20 - during transport C	General technical data:		
Insulation voltage / with degree of pollution 3	Product brand name		SIRIUS
Intitude of installation site / at a height over sea level / maximum Ambient temperature • during transport • during storage • during storage • during the operating phase • during the operating phase • during the operating phase • during the operating phase • during the	Protection class IP / frontal/front side		IP20
Altitude of installation site / at a height over sea level / maximum Ambient temperature - during transport - during storage - during the operating phase Relative humidity - during the operating phase Resistance against shock Impulse voltage resistance / rated value Real loss power / total / typical Item designation - according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 - according to DIN 801346-2 Trip class Type of assignement Size of overload relay Size of the contactor / can be combined - company-specific So Main circuit: Number of poles / for main current circuit Operating voltage / at 3 AC / rated value - maximum V 690 Operating current / at AC-3 / at 400 V	Insulation voltage / with degree of pollution 3		
Makimum Ambient temperature • during transport • during storage • during the operating phase Relative humidity • during the operating phase Resistance against shock Impulse voltage resistance / rated value Real loss power / total / typical tem designation • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 • according to DIN EN 61346-2 Trip class Type of assignement Size of overload relay Size of the contactor / can be combined • company-specific So Main circuit: Number of poles / for main current circuit • maximum V 690 Operating current / at AC-3 / at 400 V	rated value	V	690
 during transport during storage during the operating phase fw go Resistance against shock limpulse voltage resistance / rated value kV 6 Real loss power / total / typical w according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 according to DIN EN 61346-2 F Trip class CLASS 10 Type of assignement 2 Size of overload relay So Size of the contactor / can be combined company-specific So Main circuit: Number of poles / for main current circuit Operating voltage / at 3 AC / rated value maximum V 690 Operating current / at AC-3 / at 400 V 		m	2,000
 during storage during the operating phase C -40 70 Relative humidity during the operating phase /% 90 Resistance against shock lmpulse voltage resistance / rated value kV 6 Real loss power / total / typical accoording to DIN 40719 extendable after IEC 204-2 / according to IEC 750 according to DIN EN 61346-2 F Trip class CLASS 10 Type of assignement Size of overload relay Size of the contactor / can be combined company-specific Main circuit: Number of poles / for main current circuit operating voltage / at 3 AC / rated value maximum V 690 Operating current / at AC-3 / at 400 V	Ambient temperature		
• during the operating phase **C	during transport	°C	-55 80
Relative humidity • during the operating phase Resistance against shock Impulse voltage resistance / rated value Real loss power / total / typical • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 • according to DIN EN 61346-2 Fripiclass CLASS 10 Type of assignement Size of overload relay Size of the contactor / can be combined • company-specific So Main circuit: Number of poles / for main current circuit Operating voltage / at 3 AC / rated value • maximum V 690 Operating current / at AC-3 / at 400 V	during storage	°C	-55 80
 during the operating phase Resistance against shock Impulse voltage resistance / rated value Real loss power / total / typical tem designation according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 according to DIN EN 61346-2 Trip class CLASS 10 Type of assignement Size of overload relay Size of the contactor / can be combined company-specific Main circuit: Number of poles / for main current circuit Operating voltage / at 3 AC / rated value maximum V 690 Operating current / at AC-3 / at 400 V	during the operating phase	°C	-40 70
Resistance against shock Impulse voltage resistance / rated value Real loss power / total / typical W 3.9 Item designation *according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 *according to DIN EN 61346-2 F Trip class CLASS 10 Type of assignement Size of overload relay Size of the contactor / can be combined *company-specific S0 Main circuit: Number of poles / for main current circuit Operating voltage / at 3 AC / rated value *maximum V 690 Operating current / at AC-3 / at 400 V	Relative humidity		
Impulse voltage resistance / rated value Real loss power / total / typical W 3.9 Item designation • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 • according to DIN EN 61346-2 Frip class CLASS 10 Type of assignement Size of overload relay Size of the contactor / can be combined • company-specific Main circuit: Number of poles / for main current circuit Operating voltage / at 3 AC / rated value • maximum V 690 Operating current / at AC-3 / at 400 V	during the operating phase	/ %	90
Real loss power / total / typical Item designation • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 • according to DIN EN 61346-2 Frip class CLASS 10 Type of assignement Size of overload relay Size of the contactor / can be combined • company-specific Main circuit: Number of poles / for main current circuit Operating voltage / at 3 AC / rated value • maximum V 690 Operating current / at AC-3 / at 400 V	Resistance against shock		8g / 10 ms
Item designation • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 • according to DIN EN 61346-2 Frip class CLASS 10 Type of assignement Size of overload relay Size of the contactor / can be combined • company-specific So Main circuit: Number of poles / for main current circuit Operating voltage / at 3 AC / rated value • maximum V 690 Operating current / at AC-3 / at 400 V	Impulse voltage resistance / rated value	kV	6
* according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 * according to DIN EN 61346-2 Trip class CLASS 10 Type of assignement Size of overload relay Size of the contactor / can be combined * company-specific Main circuit: Number of poles / for main current circuit Operating voltage / at 3 AC / rated value * maximum V 690 Operating current / at AC-3 / at 400 V	Real loss power / total / typical	W	3.9
to IEC 750 • according to DIN EN 61346-2 F Trip class CLASS 10 Type of assignement 2 Size of overload relay Size of the contactor / can be combined • company-specific So Main circuit: Number of poles / for main current circuit Operating voltage / at 3 AC / rated value • maximum V 690 Operating current / at AC-3 / at 400 V	Item designation		
Trip class CLASS 10 Type of assignement Size of overload relay Size of the contactor / can be combined • company-specific So Main circuit: Number of poles / for main current circuit Operating voltage / at 3 AC / rated value • maximum V 690 Operating current / at AC-3 / at 400 V			F
Type of assignement 2 Size of overload relay S0 Size of the contactor / can be combined • company-specific S0 Main circuit: Number of poles / for main current circuit 3 Operating voltage / at 3 AC / rated value • maximum V 690 Operating current / at AC-3 / at 400 V	according to DIN EN 61346-2		F
Size of overload relay Size of the contactor / can be combined • company-specific So Main circuit: Number of poles / for main current circuit Operating voltage / at 3 AC / rated value • maximum V 690 Operating current / at AC-3 / at 400 V	Trip class		CLASS 10
Size of the contactor / can be combined • company-specific Main circuit: Number of poles / for main current circuit Operating voltage / at 3 AC / rated value • maximum V 690 Operating current / at AC-3 / at 400 V	Type of assignement		2
• company-specific Main circuit: Number of poles / for main current circuit Operating voltage / at 3 AC / rated value • maximum V 690 Operating current / at AC-3 / at 400 V	Size of overload relay		S0
Main circuit: Number of poles / for main current circuit Operating voltage / at 3 AC / rated value • maximum V 690 Operating current / at AC-3 / at 400 V	Size of the contactor / can be combined		
Number of poles / for main current circuit Operating voltage / at 3 AC / rated value • maximum V 690 Operating current / at AC-3 / at 400 V	• company-specific		S0
Operating voltage / at 3 AC / rated value • maximum V 690 Operating current / at AC-3 / at 400 V	Main circuit:		
• maximum V 690 Operating current / at AC-3 / at 400 V	Number of poles / for main current circuit		3
Operating current / at AC-3 / at 400 V	Operating voltage / at 3 AC / rated value		
	• maximum	V	690
• rated value A 12.5	Operating current / at AC-3 / at 400 V		
	• rated value	Α	12.5

Service power / at AC-3		
• at 400 V / rated value	kW	5.5
• at 500 V / rated value	kW	7.5
• at 690 V / rated value	W	7,500
Adjustable response current		
of the current-dependent overload release	Α	9 12.5
Operating current / of the fuse link / rated value	Α	35

Auxiliary circuit:		
Contact reliability / of the auxiliary contacts		< 1 error per 100 million operating cycles
Number of NC contacts / for auxiliary contact		1
Number of NO contacts / for auxiliary contact		1
Number of change-over switches / for auxiliary contact		0
Operating current / of the auxiliary contacts		
• at AC-15		
• at 24 V	Α	3
• at 110 V	Α	3
• at 120 V	Α	3
• at 125 V	Α	3
• at 230 V	Α	2
• at 400 V	Α	1
• at DC-13		
• at 24 V	Α	1
• at 110 V	Α	0.22
• at 125 V	Α	0.22
• at 220 V	Α	0.11

Short-circuit:	
Design of the fuse link / for short-circuit protection of the auxiliary switch / required	fuse gG: 10 A

Installation/mounting/dimensions:			
built in orientation		vertical	
Type of fixing/fixation		direct mounting	
Width	mm	45	
Height	mm	87	
Depth	mm	73	
distance, to be maintained, to the ranks assembly			
• forwards	mm	0	
• backwards	mm	0	
• upwards	mm	6	

• downwards	mm	6
• sidewards	mm	6
distance, to be maintained, to earthed part		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sidewards	mm	6
distance, to be maintained, conductive elements		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sidewards	mm	6
Connections:		
design of the electrical connection		
• for main current circuit		screw-type terminals
for auxiliary and control current circuit		screw-type terminals
Product function / removable terminal for auxiliary and control circuit		No
Type of the connectable conductor cross-section		
• for main contacts		
• unifilar		2x (1 2.5 mm2), 2x (2.5 10 mm2)
• stranded wire		2x (1.0 2.5 mm2), 2x (2.5 10 mm2)
• stranded wire		
 with conductor end processing 		2x (1 2.5 mm2), 2x (2.5 6 mm2), 1x 10 mm2
• at AWG-conductors / for main contacts		2x (16 12), 2x (14 8)
• for auxiliary contacts		
• solid		2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2)
finely stranded		
e.y enanced		
with wire end processing		2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2)

Certificates/approvals:		
verification of suitability		CE / UL / CSA
• ATEX		No

Safety:		
Mean time to failure (MTTF) / with high demand rate		
• according to SN 31920	а	2,280

Proportion of dangerous failures		
 with low demand rate / according to SN 31920 	%	50
 with high demand rate / according to SN 31920 	%	50
Failure rate (FIT value) / with low demand rate		
according to SN 31920	FIT	50
T1 value / for proof test interval or service life		
according to IEC 61508	а	20
Protection against electrical shock		finger-safe

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Global Industry Mall (Online ordering system)

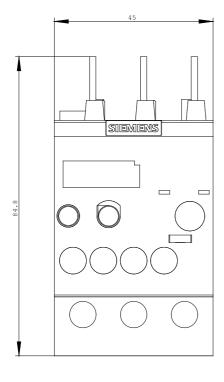
http://www.siemens.com/industrial-controls/mall

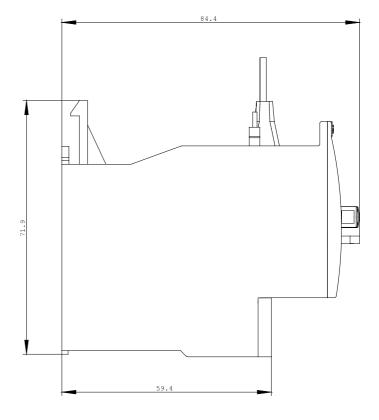
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

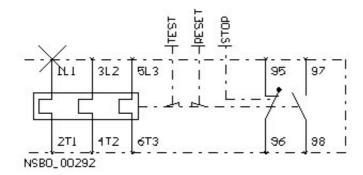
http://support.automation.siemens.com/WW/view/en/3RU2126-1KB0/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU2126-1KB0}}$







last change: Apr 26, 2010