## 3SU1150-2BF60-1MA0-Z X90

## **Data sheet**



Selector switch, illuminable, 22 mm, round, metal, shiny, white, selector switch, short, 2 switch positions O-I, latching, actuating angle  $90^\circ$ , 10:30h/13:30h, with holder, 1 NO, 1 NC, screw terminal, Z=20-unit packaging

product brand name	SIRIUS ACT
product designation	Selector switches
design of the product	Complete unit
product type designation	3SU1
product line	Metal, shiny, 22 mm
manufacturer's article number	, ,,
of supplied contact module at position 1	3SU1400-1AA10-1BA0
of supplied contact module at position 2	3SU1400-1AA10-1CA0
of the supplied holder	3SU1550-0AA10-0AA0
of the supplied actuator	3SU1052-2BF60-0AA0
Enclosure	
number of command points	1
Actuator	
design of the actuating element	Selector, short
principle of operation of the actuating element	latching, 90° (10:30 h/13:30 h)
product extension optional light source	Yes
color of the actuating element	white
material of the actuating element	plastic
shape of the actuating element	round
outer diameter of the actuating element	32.3 mm
number of contact modules	2
number of switching positions	2
actuating angle	
• clockwise	90°
Front ring	
product component front ring	Yes
design of the front ring	standard
material of the front ring	Metal, high gloss
color of the front ring	silver
Holder	
material of the holder	Plastic
Display	
number of LED modules	0
General technical data	
product function positive opening	Yes
product component light source	No
insulation voltage rated value	500 V
degree of pollution	3
type of voltage of the operating voltage	AC/DC
surge voltage resistance rated value	6 kV

Prof.   PROF		
degree of protection NEMA rating   1, 2, 3, 3R, 4, 4X, 12, 13	protection class IP	IP66, IP67, IP69(IP69K)
	of the terminal	IP20
- according to IEC 6008-2-27	degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13
	shock resistance	
	• according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
a secording to IEC 60968-2-6   10 500 Hz. 5g   coperating frequency maximum   1 800 Hz. 5g   coperating frequency maximum   1 800 Hz. 5g   coperating frequency maximum   1 800 Hz. 5g   coperating cycles) typical   1 0000 000   colectrical endurance (operating cycles) typical   1 0000 000   colectrical endurance (operating cycles) typical   1 0000 000   continuous current of the Characteristic MDS   10 A, for a short-circuit current smaller than 400 A   continuous current of the Quick DIAZED fuse link   10 A   continuous curren		
Seperating frequency maximum   1800 M		10 500 Hz: 5g
mechanical service life (operating cycles) typical 1000.000   electrical endurance (operating cycles) typical 1000.000   reference code according to EC 81346-2   S   Continuous current of the Characteristic MOB 10 A, for a short-circuit current smaller than 400 A   Continuous current of the Quick DIAZED fuse link   D A   Continuous current of the Quick DIAZED fuse link   D A   Continuous current of the QUICK DIAZED fuse link   D A   Continuous current of the QUICK DIAZED fuse link   D A   Continuous current of the QUICK DIAZED fuse link   D A   Continuous current of the QUICK DIAZED fuse link   D A   Continuous current of the QUICK DIAZED fuse link   D A   Continuous current of the QUICK DIAZED fuse link   D A   Continuous current of the QUICK DIAZED fuse link   D A   Continuous current of the QUICK DIAZED fuse link   D A   Continuous current of the QUICK DIAZED fuse link   D A   Continuous current of the QUICK DIAZED fuse link   D A   Continuous Current of D AZED fuse link   D A   Continuous Current of D AZED fuse link   D A   Continuous Current of D AZED fuse link   D A   Continuous Current of D AZED fuse link   D AZED fuse link   D AZED fuse link   Continuous Current of D AZED fuse link   D AZED fuse link   Continuous Current of D AZED fuse link   D AZED fuse link   Continuous Current of D AZED fuse link   D AZED fuse link   Continuous Current of D AZED fuse link   D AZED fuse link   Continuous Current of		Ť
electrical endurance (operating cycles) typical  thermal current  reference code according to IEC 81346-2  S continuous current of the Ocharacteristic MCB  continuous current of the Ocharacteristic MCB  continuous current of the DIAZED fuse link gO  substance Prohibitance (Date)  • 10 A  continuous current of the DIAZED fuse link gO  substance Prohibitance (Date)  • 10 A  — at 50 Hz rated value  • 10 B Hz rate		
thermal current of the Cc B1346-2 S Continuous current of the C characteristic MCB 10 Å; for a short-circuit current smaller than 400 Å Continuous current of the Quick DAZED fuse link G 10 Å Continuous current of the Quick DAZED fuse link G 10 Å Continuous current of the Quick DAZED fuse link G 10 Å Continuous current of the Quick DazeD fuse link G 10 Å Continuous current of the Quick DazeD fuse link G 10 Å Continuous current of the Quick DazeD fuse link G 10 Å Continuous current of the Quick DazeD fuse link G 10 Å Continuous current of the Quick DazeD fuse link G 10 Å Continuous current of the Quick DazeD fuse link G 10 Å Continuous Current of the Quick G 10 Å Continuous Current Of March G 10 Å Continuous		
reference code according to IEC 81346-2 S continuous current of the C characteristic MCB 10 A, for a short-circuit current smaller than 400 A continuous current of the quick DAIZED fuse link g substance Prohibitance (Date) 1001/2014  Operating voltage  • at AC  — at 50 Hz rated value 5500 V  — at 60 Hz rated value 5500 V  • at DC rated value 5500 V  • at Contact for liability Contacts of care value (8.V.1 m/A)  • and Contact of auxiliary contacts (8.V.1 m/A)  design of the contact of auxiliary contacts 1  contact reliability Contacts for auxiliary contacts 1  Connections/ Forminals  type of electrical connection social auxiliary contacts 5500 V  • of oncotacts for auxiliary contacts 1  type of contacts for auxiliary contacts 5500 V  • of oncotacts for auxiliary contacts 1  type of contacts for auxiliary contacts 1  type of contacts for auxiliary contacts 5500 V  • of modules and accessories 5500 V  • of nondules and accessories 5500 V  • of nondules and accessories 5500 V  • of nondules and accessories 6500 V  • with high demand rate according to SN 31920 100 000  • of norAWG cables 112 Nm  • with low demand rate according to SN 31920 20 %  • with high demand rate according to SN 31920 20 %  • with high demand rate according to SN 31920 20 %  • with high demand rate according to SN 31920 20 %  • with high demand rate according to SN 31920 20 %  • with high demand rate according to SN 31920 20 %  • with high demand rate according to SN 31920 20 %  • with high demand rate according to SN 31920 20 %  • with high demand rate according to SN 31920 20 %  • with high demand rate according to SN 31920 20 %  • with high demand rate according to SN 31920 20 %  • with low demand rate according to SN 31920 20 %  • with low demand rate according to SN 31920 20 %  • with low demand rate according to SN 31920 20 %  • with low demand rate according to SN 31920 20 %  • with low demand rate according to SN 3		
continuous current of the C characteristic MCB continuous current of the public DAZED fase link continuous current of the public place link continuous cur		
continuous current of the quick DIAZED fuse link g  10 A  continuous current of the DIAZED fuse link g  10 A  substance Prohibitance (Date)  operating voltage  * at AC		S
Substance Prohibitance (Date)  Substance Prohibitance (Date)  operating voltage  ● 14 AC  — at 50 Hz rated value — at 60 Hz rated value	continuous current of the C characteristic MCB	10 A; for a short-circuit current smaller than 400 A
Substance Prohibitance (Date) operating voltage	continuous current of the quick DIAZED fuse link	10 A
operating voltage  * if AC  at 50 Hz rated value  at 60 Hz rated value  become Electronics  Contact reliability  One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (6 V, 1 mA)  Auxiliary circuit  design of the contact of auxiliary contacts  surple of Contacts for auxiliary contacts  number of NC contacts for auxiliary contacts  1 connections   sorew-type terminals  type of connections   sorew-type terminals  type of connections   sorew-type terminals  solid with core end processing  solid with earth eacording to SN 31920  solid with low demand rate according to SN 31920  solid with low demand rate according to SN 31920  solid with low demand rate according to SN 31920  with high demand rate according to SN	continuous current of the DIAZED fuse link gG	10 A
• at AC  — at 50 Hz rated value — at 60 Hz rated value 5 500 V  • at DC rated value • bower Electronics  contact reliability Cne maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)  Auxiliary circuit  design of the contact of auxiliary contacts 1 umber of NC contacts for auxiliary contacts 1 umber of NC contacts for auxiliary contacts 1 type of electrical connection • of modules and accessories 1 connectable conductor cross-sections • solid without core end processing • solid without core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end	Substance Prohibitance (Date)	10/01/2014
at 50 Hz rated value	operating voltage	
- at 60 Hz rated value 5 500 V Power Electronics  contact reliability Certain Cert	• at AC	
- at 60 Hz rated value 5 500 V Power Electronics  contact reliability Certain Cert	— at 50 Hz rated value	5 500 V
• at DC rated value  Power Electronics  contact reliability  Cone maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)  Auxiliary circuit  design of the contact of auxiliary contacts  number of NC contacts for auxiliary contacts  1  number of NC contacts for auxiliary contacts  1  connections/ Terminals  type of electrical connection  • of modules and accessories  • solid with core end processing  • solid without core end processing  • solid without core end processing  • solid without core end processing  • finely stranded without core end processing  • finely stranded without core end processing  • finely stranded without core end processing  • for AVKC cables  2x (10 1,5 mm²)  • finely stranded without core end processing  • for AVKC cables  2x (10 1,5 mm²)  • finely stranded without core end processing  • for AVKC cables  2x (10 1,5 mm²)  • finely stranded without core end processing  • for AVKC cables  2x (10 1,5 mm²)  • finely stranded without core end processing  • for AVKC cables  2x (10 1,5 mm²)  • finely stranded without core end processing  • for AVKC cables  2x (10 1,5 mm²)  • finely stranded without core end processing  • for AVKC cables  2x (10 1,5 mm²)  • finely stranded without core end processing  • for AVKC cables  2x (10 1,5 mm²)  • finely stranded without core end processing  • for AVKC cables  2x (10 1,5 mm²)  • finely stranded without core end processing  • for AVKC cables  2x (10 1,5 mm²)  • finely stranded without core end processing  • for AVKC cables  2x (10 1,5 mm²)  • finely stranded without core end processing  • for AVKC cables  2x (10 1,5 mm²)  • finely stranded without core end processing  • for AVKC cables  2x (10 1,5 mm²)  • for AVKC cable		
Contact reliability Circuit  design of the contact of auxiliary contacts Inumber of NC contacts for auxiliary cont		
Contact reliability  Auxiliary circuit  design of the contact of auxiliary contacts  number of NC contacts for auxiliary contacts  1  Consections/ Terminals  type of electrical connection  of modules and accessories  screw-type terminals  type of connectable conductor cross-sections  of modules and accessories  \$\text{x}(1015\text{ mm}^2)\$  \$\text{s}(1015\text{ mm}^2)		
Auxiliary circuit  design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 connections / Terminals  type of electrical connection • of modules and accessories 1 solid with core end processing • solid without core end processing • finely stranded with core end processing • finely stranded without grow end pr		One maleporation per 100 million (47 \ / 5 m/) one maleporation are 40 million
design of the contact of auxiliary contacts   Silver alloy	Contact renability	
design of the contact of auxiliary contacts   1   1   1   1   1   1   1   1   1	Auxiliary circuit	· · · · · · · · · · · · · · · · · · ·
number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  type of electrical connection  of modules and accessories  screw-type terminals  type of connectable conductor cross-sections  oblight with core end processing  inely stranded with core end processing  inely stranded with core end processing  of ranky stranded with core end processing  inely stranded without core end processing  of ranky stranded without core end processing  inely stranded without core end processing  of ranky stranded without ore end processing  of ranky stranded without processing  of ranky stranded with core end processing  of ranky stranded w		Silver alloy
number of NO contacts for auxillary contacts         1           Connections/ Terminals         Type of electrical connection         screw-type terminals           type of electrical connectable conductor cross-sections         Screw-type terminal           type of connectable conductor cross-sections         \$\text{solid with core end processing}\$ (2x (1.0 1.5 mm²)         \$\text{solid with core end processing}\$ (2x (1.0 1.5 mm²)         \$\text{sinely stranded with core end processing}\$ (2x (1.0 1.5 mm²)         \$\text{sinely stranded with core end processing}\$ (2x (1.0 1.5 mm²)         \$\text{sinely stranded without core end processing}\$ (2x (1.0 1.5 mm²)         \$\text{sinely stranded without core end processing}\$ (2x (1.0 1.5 mm²)         \$\text{sinely stranded without core end processing}\$ (2x (1.0 1.5 mm²)         \$\text{sinely stranded without core end processing}\$ (2x (1.0 1.5 mm²)         \$\text{sinely stranded without core end processing}\$ (2x (1.0 1.5 mm²)         \$\text{sinely stranded without core end processing}\$ (2x (1.0 1.5 mm²)         \$\text{sinely stranded without core end processing}\$ (2x (1.0 1.5 mm²)         \$\text{sinely stranded without core end processing}\$ (2x (1.0 1.5 mm²)         \$\text{sinely stranded without core end processing}\$ (2x (1.0 1.5 mm²)         \$\text{sinely stranded without core end processing}\$ (2x (1.0 1.5 mm²)         \$\text{sinely stranded without core end processing}\$ (2x (1.0 1.5 mm²)         \$\text{sinely sinely stranded without core end processing}\$ (2x (1.0 1.5 mm²)         \$sinely sinely s		·
Connections/ Torminals         Screw-type terminals           type of electrical connection         screw-type terminal           • of modules and accessories         Screw-type terminal           type of connectable conductor cross-sections         \$ solid with core end processing         \$ 2x (0.5 0.75 mm²)           • solid without core end processing         \$ 2x (0.5 0.75 mm²)         \$ (0.5 0.75 mm²)           • finely stranded with core end processing         \$ 2x (0.5 1.5 mm²)           • finely stranded without core end processing         \$ 2x (1.0 1.5 mm²)           • for AWG cables         \$ 2x (1.8 14)           • tightening torque of the screws in the bracket         \$ 1 1.2 N/m           • tightening torque with screw-type terminals         \$ 0.8 0.9 N/m           Safety rolated data         \$ 1 1.2 N/m           B10 value with high demand rate according to SN 31920         \$ 0.000           proportion of dangerous failures         \$ with high demand rate according to SN 31920         \$ 20 %           • with high demand rate according to SN 31920         \$ 20 %           • with ligh demand rate according to SN 31920         \$ 20 %           • during storage         \$ 40 mm           • during storage         \$ 40 mm           • during storage         \$ 40 mm           • during storage		
type of electrical connection		1
of modules and accessories      Screw-type terminal  type of connectable conductor cross-sections     solid with core end processing     solid without core end processing     soli		
type of connectable conductor cross-sections  • solid with core end processing • solid with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for AWG cables • for AWG cables • for AWG cables • for AWG cables • vith low demain fate according to SN 31920  Proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with negreture • during operation • during operation • during storage • during storage • during storage • environmental category during operation according to IEC condensation in operation permitted for all devices behind front panel)  Installation/ mounting/ dimensions  fastening method • of modules and accessories • front plate mounting  width shape of the installation opening mounting diameter  positive tolerance of installation diameter  0,4 mm  mounting diameter  22.3 mm  positive tolerance of installation diameter  0,4 mm  mounting height		**
* solid with core end processing     * solid without core end processing     * solid without core end processing     * solid without core end processing     * finely stranded with core end processing     * finely stranded without core end processing     * energy finely stranded without core end processing     * finely stranded without core end processing     * solid without core end processing     * 2x (1.0 1.5 mm²)     * for AN/C cables     * 2x (18 14)  tightening torque of the screws in the bracket     * 1 1.2 N·m  tightening torque with screw-type terminals     * 0.8 0.9 N·m  Safety rolated data  B10 value with high demand rate according to SN 31920  proportion of dangerous failures     * with low demand rate according to SN 31920  with high demand rate according to SN 31920  * with high demand rate according to SN 31920  Ambient conditions  ambient temperature     * during operation     * of modules and accessories  fastening method     * of modules and accessories  fastening method     * of modules and accessories  front plate mounting  height  40 mm  width  shape of the installation opening  mounting diameter  positive tolerance of installation diameter  positive tolerance of installation diameter  positive tolerance of installation diameter  mounting height		Screw-type terminal
* solid without core end processing     * finely stranded with core end processing     * finely stranded without core end processing     * finely stranded without core end processing     * of rAWG cables     * 2x (1.0 1.5 mm²)     * of ra AWG cables     * 2x (18 14)  tightening torque of the screws in the bracket     tightening torque with screw-type terminals     * 0.8 0.9 N·m  Safety related data  B10 value with high demand rate according to SN 31920  proportion of dangerous failures     * with low demand rate according to SN 31920  with low demand rate according to SN 31920  * with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  Ambient conditions  ambient temperature     * during operation     * of uring storage     * 40 +80 °C  environmental category during operation according to IEC     * 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel)  Installation/ mounting/ dimensions  fastening method     * of modules and accessories     * Front plate mounting     height     width     * 32.3 mm  shape of the installation opening     round     mounting diameter     positive tolerance of installation diameter     * 0.4 mm     mounting height	type of connectable conductor cross-sections	
• finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for AWG cables 2x (18 14)  tightening torque of the screws in the bracket 1 1.2 N·m tightening torque with screw-type terminals  Safety related data  B10 value with high demand rate according to SN 31920  proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 20 % failure rate [FIT] with low demand rate according to SN 31920 20 % failure rate [FIT] with low demand rate according to SN 31920  Ambient conditions  ambient temperature • during operation • during storage  environmental category during operation according to IEC 60721  Installation/ mounting/ dimensions  fastening method • of modules and accessories Front plate mounting height 40 mm  width 32.3 mm  shape of the installation opening mounting diameter 22.3 mm  positive tolerance of installation diameter 0.4 mm  mounting height 28.8 mm	<ul> <li>solid with core end processing</li> </ul>	
• finely stranded without core end processing     • for AWG cables 2x (18 14)  tightening torque of the screws in the bracket 1 1.2 N·m  tightening torque with screw-type terminals 0.8 0.9 N·m  Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with nigh demand rate according to SN 31920 • with nigh demand rate according to SN 31920 • with nigh demand rate according to SN 31920 • with nigh demand rate according to SN 31920 • with nigh demand rate according to SN 31920 • with nigh demand rate according to SN 31920 • with nigh demand rate according to SN 31920 • with nigh demand rate according to SN 31920  20 %  failure rate [FIT] with low demand rate according to SN 31920  20 %  failure rate [FIT] with low demand rate according to SN 31920  20 %  failure rate [FIT] with low demand rate according to SN 31920  20 %  failure rate [FIT] with low demand rate according to SN 31920  20 %  failure rate [FIT] with low demand rate according to SN 31920  20 %  failure rate [FIT] with low demand rate according to SN 31920  20 %  failure rate [FIT] with low demand rate according to SN 31920  20 %  failure rate [FIT] with low demand rate according to SN 31920  20 %  failure rate [FIT] with low demand rate according to SN 31920  20 %  failure rate [FIT] with low demand rate according to SN 31920  20 %  failure rate [FIT] with low demand rate according to SN 31920  20 %  50 %  60 with relative air humidity of 10 95%, no contain the process of the stantage of the installation opening round  for mounting diameter  10 Ambient conditions  22 +70 °C  34 +80 °C  34 +80 °C  34 +80 °	<ul> <li>solid without core end processing</li> </ul>	2x (1.0 1.5 mm²)
• for AWG cables  tightening torque of the screws in the bracket  tightening torque with screw-type terminals  0.8 0.9 N·m  Safety related data  B10 value with high demand rate according to SN 31920  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  100 FIT  Ambient conditions  ambient temperature  • during operation  • during storage  environmental category during operation according to IEC  60721  and in the state of the installation mounting/ dimensions  fastening method  • of modules and accessories  for modules and accessories  Front plate mounting  mounting diameter  positive tolerance of installation diameter  0.4 mm  nounting height  28.8 mm	<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)
tightening torque of the screws in the bracket tightening torque with screw-type terminals 0.8 0.9 N·m  Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 20 % failure rate [FIT] with low demand rate according to SN 31920 Ambient conditions ambient temperature • during operation • during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions fastening method • of modules and accessories height shape of the installation opening mounting diameter positive tolerance of installation diameter  1 1.2 N·m 1	<ul> <li>finely stranded without core end processing</li> </ul>	2x (1,0 1,5 mm²)
tightening torque with screw-type terminals  Safety related data  B10 value with high demand rate according to SN 31920  proportion of dangerous failures  with low demand rate according to SN 31920  with high demand rate according to SN 31920  with high demand rate according to SN 31920  tailure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  Ambient conditions  ambient temperature  during operation  during storage  during operation  during storage  environmental category during operation according to IEC  60721  Installation/ mounting/ dimensions  fastening method  of modules and accessories  Front plate mounting  height  40 mm  width  32.3 mm  shape of the installation opening  mounting diameter  positive tolerance of installation diameter  0.4 mm  mounting height  28.8 mm	for AWG cables	2x (18 14)
Safety related data  B10 value with high demand rate according to SN 31920 100 000  proportion of dangerous failures  • with low demand rate according to SN 31920 20 %  • with high demand rate according to SN 31920 100 FIT  Ambient conditions  ambient temperature  • during operation 2-25 +70 °C  • during storage 40 +80 °C  environmental category during operation according to IEC 60721 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel)  Installation/ mounting/ dimensions  fastening method  • of modules and accessories  Front plate mounting  width 32.3 mm  shape of the installation opening round  mounting diameter 22.3 mm  positive tolerance of installation diameter 0.4 mm  mounting height 28.8 mm	tightening torque of the screws in the bracket	1 1.2 N·m
B10 value with high demand rate according to SN 31920  proportion of dangerous failures  with low demand rate according to SN 31920  with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  Ambient conditions  ambient temperature  during operation during storage  environmental category during operation according to IEC 60721  environmental category during operation according to IEC 60721  fastening method of modules and accessories  fastening method of modules and accessories  felight  width 32.3 mm  shape of the installation opening  mounting diameter  positive tolerance of installation diameter  mounting height  100 000  20 %  20	tightening torque with screw-type terminals	0.8 0.9 N·m
proportion of dangerous failures  • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920  ### Ambient conditions  ### ambient temperature  • during operation • during storage  ### environmental category during operation according to IEC 60721  ### ambient according to IEC 60721  ### and in operation according to IEC 60721  ### and in operation according to IEC 60721  ### and in operation permitted for all devices behind front panel)  ### Installation/ mounting/ dimensions  ### and in operation according to IEC 60721  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel	Safety related data	
proportion of dangerous failures  • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920  ### Ambient conditions  ### ambient temperature  • during operation • during storage  ### environmental category during operation according to IEC 60721  ### ambient according to IEC 60721  ### and in operation according to IEC 60721  ### and in operation according to IEC 60721  ### and in operation permitted for all devices behind front panel)  ### Installation/ mounting/ dimensions  ### and in operation according to IEC 60721  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel)  ### and in operation permitted for all devices behind front panel		100 000
with low demand rate according to SN 31920     with high demand rate according to SN 31920     failure rate [FIT] with low demand rate according to SN 31920  Ambient conditions  ambient temperature     during operation     during storage     environmental category during operation according to IEC 60721  Installation/ mounting/ dimensions  fastening method     of modules and accessories  height  width  shape of the installation opening  mounting diameter  positive tolerance of installation diameter  mounting height  20 %  20 %  20 %  100 FIT  21		
with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920  Ambient conditions  ambient temperature     • during operation     • during storage     environmental category during operation according to IEC 60721  Installation/ mounting/ dimensions  fastening method     • of modules and accessories  height  width  shape of the installation opening  mounting diameter  positive tolerance of installation diameter  mounting height  20 %  100 FIT  1		20 %
failure rate [FIT] with low demand rate according to SN 31920  Ambient conditions  ambient temperature  • during operation • during storage  environmental category during operation according to IEC 60721  Installation/ mounting/ dimensions  fastening method • of modules and accessories  Front plate mounting  height  40 mm  width  32.3 mm  shape of the installation opening  mounting diameter  positive tolerance of installation diameter  mounting height  28.8 mm	-	
Ambient conditions  ambient temperature  • during operation • during storage  environmental category during operation according to IEC 60721  Installation/ mounting/ dimensions  fastening method • of modules and accessories  Front plate mounting  height  width  32.3 mm  shape of the installation opening  mounting diameter  positive tolerance of installation diameter  mounting height  28.8 mm		
ambient temperature  • during operation  • during storage  environmental category during operation according to IEC 60721  ambient temperature  • during storage  -40 +80 °C  3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel)  Installation/ mounting/ dimensions  fastening method  • of modules and accessories  Front plate mounting  height  40 mm  width  32.3 mm  shape of the installation opening  mounting diameter  positive tolerance of installation diameter  mounting height  28.8 mm		100111
<ul> <li>during operation</li> <li>during storage</li> <li>+40 +80 °C</li> <li>3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel)</li> <li>Installation/ mounting/ dimensions</li> <li>fastening method         <ul> <li>of modules and accessories</li> <li>front plate mounting</li> <li>height</li> <li>width</li> <li>32.3 mm</li> </ul> </li> <li>shape of the installation opening         <ul> <li>mounting diameter</li> <li>positive tolerance of installation diameter</li> <li>0.4 mm</li> </ul> </li> <li>mounting height</li> <li>28.8 mm</li> </ul>		
<ul> <li>during storage</li> <li>-40 +80 °C</li> <li>environmental category during operation according to IEC 60721</li> <li>Installation/ mounting/ dimensions</li> <li>fastening method         <ul> <li>of modules and accessories</li> <li>Front plate mounting</li> <li>height</li> <li>width</li> <li>say, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel)</li> </ul> </li> <li>Front plate mounting         <ul> <li>40 mm</li> </ul> </li> <li>width</li> <li>say, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel)</li> </ul> <li>Front plate mounting</li> <li>round</li> <li>mounting diameter</li> <li>22.3 mm</li> <li>positive tolerance of installation diameter</li> <li>0.4 mm</li> <li>mounting height</li> <li>28.8 mm</li>	•	
environmental category during operation according to IEC 60721 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel)  Installation/ mounting/ dimensions  fastening method  of modules and accessories  Front plate mounting  height  40 mm  width  32.3 mm  shape of the installation opening  mounting diameter  positive tolerance of installation diameter  mounting height  28.8 mm		
condensation in operation permitted for all devices behind front panel)  Installation/ mounting/ dimensions  fastening method  of modules and accessories  Front plate mounting  height  40 mm  width  32.3 mm  shape of the installation opening  mounting diameter  positive tolerance of installation diameter  mounting height  condensation in operation permitted for all devices behind front panel)  Front plate mounting  rout  40 mm  22.3 mm  22.3 mm  positive tolerance of installation diameter  0.4 mm  mounting height  28.8 mm		-40 +80 °C
fastening method     • of modules and accessories Front plate mounting height 40 mm width 32.3 mm shape of the installation opening round mounting diameter 22.3 mm positive tolerance of installation diameter 0.4 mm mounting height 28.8 mm		
● of modules and accessories  Front plate mounting  40 mm  width  32.3 mm  shape of the installation opening  mounting diameter  positive tolerance of installation diameter  mounting height  Front plate mounting  40 mm  22.3 mm  22.3 mm  22.8 mm	Installation/ mounting/ dimensions	
height 40 mm  width 32.3 mm  shape of the installation opening round  mounting diameter 22.3 mm  positive tolerance of installation diameter 0.4 mm  mounting height 28.8 mm	fastening method	
height 40 mm  width 32.3 mm  shape of the installation opening round  mounting diameter 22.3 mm  positive tolerance of installation diameter 0.4 mm  mounting height 28.8 mm	<ul> <li>of modules and accessories</li> </ul>	Front plate mounting
width     32.3 mm       shape of the installation opening     round       mounting diameter     22.3 mm       positive tolerance of installation diameter     0.4 mm       mounting height     28.8 mm		
shape of the installation opening round mounting diameter 22.3 mm  positive tolerance of installation diameter 0.4 mm mounting height 28.8 mm		
mounting diameter     22.3 mm       positive tolerance of installation diameter     0.4 mm       mounting height     28.8 mm		
positive tolerance of installation diameter 0.4 mm mounting height 28.8 mm		
mounting height 28.8 mm		
	·	
installation width 32.3 mm		
	installation width	32.3 mm

# Certificates/ approvals

#### **Further information**

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

#### Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

## Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1150-2BF60-1MA0-Z X90

Cax online generator

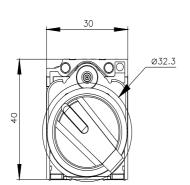
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3SU1150-2BF60-1MA0-Z~X90}$ 

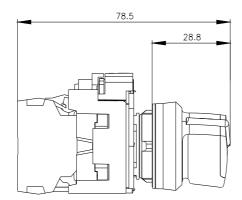
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

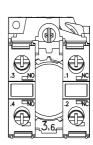
https://support.industry.siemens.com/cs/ww/en/ps/3SU1150-2BF60-1MA0-Z X90

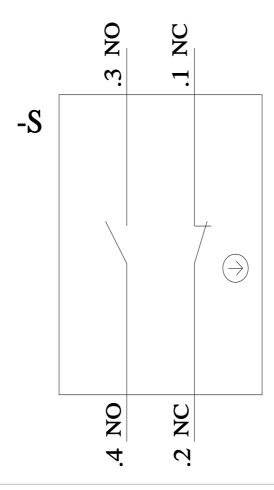
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1150-2BF60-1MA0-Z X90&lang=en









last modified: 1/26/2022 🖸

# **Mouser Electronics**

**Authorized Distributor** 

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

Siemens:

A6X30143161