SIEMENS

Product data sheet 3SB3801-0DG3



ENCLOSURE FOR 22MM PROGRAM PLASTIC VERSION 1 COMMAND POSITION YELLOW TOP PART WITHOUT PROTECTIVE COLLAR A=EMER.-STOP40MM ROT.-TO-UNLAT. 1NC

Enclosure:		
model of the measuring transducer	Enclosure for command and signaling devices with standard equipment	
material / of the housing	plastic	
Color / of the top part of housing	yellow	
Number of control points	1	
Product component / protective collar	No	
Shape / of the housing front	Square	
Design of electrical connection / on enclosure	Cable routing above and below, both 1 x M20	
Type of mounting / of enclosure	Vertical	
Product function / EMERGENCY STOP function	Yes	

Actuator / signaling device:		
Design of the operating mechanism	Emergency stop mushroom pushbutton	
Assembling of the commanding and signaling device	A = Emergency stop mushroom pushbutton	
Number of mushroom pushbuttons	1	
Number of indicator lights	0	
Number of pushbuttons	0	
Number of key-operated switches	0	
Material / of the activation element	plastic	
Product component / front ring	No	

Type	of	un	lockina	device

rotate-to-unlatch mechanism

Contact block / lampholder		
Number of switching elements	1	
Number of NC contacts / for auxiliary contacts	1	
Number of NO contacts / for auxiliary contacts	0	
Number of change-over switches / for auxiliary contacts	0	
Product function / positive opening	Yes	
Number of lampholders	0	
Type of mounting / of contact blocks, socket, and accessories	Floor mounting	
Design of electrical connection / of contact blocks, socket, and accessories	Screw-type terminal	
Product component / fluorescent materials	No	
Product extension / optional / fluorescent materials	No	

Accessories:		
Number of backing plates		0
Number of labeling plates		0
Product component / holder for 3 switching elements		No

General technical details:		
Type of voltage / of the operating voltage		AC/DC
Operating voltage		
• for DC		
• rated value	V	5 230
• 1 / for DC / rated value	V	230
• at 50 Hz / at AC		
• rated value	V	5 400
• 1 / at 50 Hz / for AC / rated value	V	400
• at 60 Hz / at AC		
• rated value	V	5 300
• 1 / at 60 Hz / for AC / rated value	V	300
Operating current		
• at AC-12		
at 24 V / rated value	Α	10
• at 48 V / rated value	Α	10
• at 110 V / rated value	Α	10
• at 230 V / rated value	Α	10
• at 400 V / rated value	Α	10
• at AC-15		
at 24 V / rated value	Α	6

* at 148 V / rated value			
* at 230 V / rated value	• at 48 V / rated value	Α	6
• at 400 V / rated value • at DC-12 • at 24 V / rated value • at 48 V / rated value • at 48 V / rated value • at 110 V / rated value • at 230 V / rated value • at 24 V / rated value • at 110 V / rated value • at 230 V / rated value • at 230 V / rated value • A 0.7 • at 230 V / rated value No Product component / stand/pedestal Resistance against shock • for devices without incandescent lamp / according to IEC 60068- 2-27 Resistance against vibration / according to IEC 60068- 2-6 Item designation • according to DIN EN 61346-2 • according to DIN 40719 extendable after IEC 204-2 / according to IEC 500 Resistance against vibration / according to IEC 60068- • concording to DIN 40719 extendable after IEC 204-2 / according to IEC 500 Resistance against vibration / according to IEC 500 Resistance against vibration / according to IEC 60068- 10	• at 110 V / rated value	Α	6
• at DC-12 • at 24 V / rated value • at 48 V / rated value • at 110 V / rated value • at 230 V / rated value • at 230 V / rated value • at 230 V / rated value • at 24 V / rated value • at 30 V / rated value • at 30 V / rated value • at 230 V / rated value • at 30 V / rated value • at 230 V / rated value • A • 3 • at 24 V / rated value • A • 0.7 • at 230 V / rated value • A • 0.7 • 0.3 Supply status / pre-wired on terminal strip Product component / stand/pedestal Resistance against shock • for devices without incandescent lamp / according to IEC 60068- 2-27 Resistance against vibration / according to IEC 60068-2-6 Item designation • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum Ambient temperature • during operating • °C • 25 +70 • during storage Protection class IP B10 value / with high demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920	• at 230 V / rated value	Α	6
• at 24 V / rated value A 10 • at 48 V / rated value A 5 • at 230 V / rated value A 1 • at DC-13 A 1 • at 24 V / rated value A 3 • at 48 V / rated value A 1.5 • at 110 V / rated value A 0.7 • at 230 V / rated value A 0.3 Supply status / pre-wired on terminal strip No Product component / stand/pedestal No Resistance against shock • for devices without incandescent lamp / according to IEC 60068-2-6 <= 50g	• at 400 V / rated value	Α	3
+ at 48 V / rated value A 5 + at 110 V / rated value A 2.5 + at 230 V / rated value A 1 + at DC-13 A 3 + at 24 V / rated value A 1.5 + at 110 V / rated value A 0.7 + at 230 V / rated value A 0.3 Supply status / pre-wired on terminal strip No Product component / stand/pedestal No Resistance against shock + for devices without incandescent lamp / according to IEC 60068-2-27 Resistance against vibration / according to IEC 60068-2-6 20 200 Hz: 5g Item designation + according to DIN EN 61346-2 S + according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 S Tightening torque / of the screws in the bracket / maximum N·m 1 Ambient temperature + during storage °C -25 +70 + during storage °C -40 +80 Protection class IP IP65 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 <td>• at DC-12</td> <td></td> <td></td>	• at DC-12		
* at 110 V / rated value * at 230 V / rated value * at DC-13 * at 24 V / rated value * at 48 V / rated value * at 48 V / rated value * at 110 V / rated value * at 230 V / rated value * A 0.3 Supply status / pre-wired on terminal strip Product component / stand/pedestal Resistance against shock * for devices without incandescent lamp / according to IEC 60068-2-27 Resistance against vibration / according to IEC 60068-2-6 Item designation * according to DIN EN 61346-2 * according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum Ambient temperature * during operating * during storage * C -25 +70 * during storage * C -40 +80 Protection class IP B10 value / with high demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920	• at 24 V / rated value	Α	10
*at 230 V / rated value *at DC-13 *at 24 V / rated value *at 48 V / rated value *at 41 10 V / rated value *at 230 V / rated value *A 0.7 *A 0.3 Supply status / pre-wired on terminal strip Product component / stand/pedestal Resistance against shock *for devices without incandescent lamp / according to IEC 60068-2-27 Resistance against vibration / according to IEC 60068-2-6 Item designation *according to DIN EN 61346-2 *according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum Ambient temperature *during operating *during storage *C -25 +70 *during storage Protection class IP B10 value / with high demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920	• at 48 V / rated value	Α	5
*at DC-13 *at 24 V / rated value *at 48 V / rated value *at 48 V / rated value *at 110 V / rated value *at 230 V / rated value *at 230 V / rated value *at 230 V / rated value *A *D.7 *D.3 *D.3 *D.3 *D.3 *Supply status / pre-wired on terminal strip *D.0 *D.	• at 110 V / rated value	Α	2.5
at 24 V / rated value at 48 V / rated value at 110 V / rated value at 230 V / rated value A 0.7 A 0.3 Supply status / pre-wired on terminal strip Product component / stand/pedestal Resistance against shock for devices without incandescent lamp / according to IEC 60068-2-2 Resistance against vibration / according to IEC 60068-2-6 Item designation according to DIN EN 61346-2 according to DIN EN 61346-2 scoording to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum Ambient temperature during operating currently operation of dangerous failures / with high demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920	• at 230 V / rated value	Α	1
* at 48 V / rated value * at 110 V / rated value * at 230 V / rated value * at 230 V / rated value A 0.3 Supply status / pre-wired on terminal strip Product component / stand/pedestal Resistance against shock * for devices without incandescent lamp / according to IEC 60068-2-27 Resistance against vibration / according to IEC 60068-2-6 Item designation * according to DIN EN 61346-2 * according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum Ambient temperature * during operating * during storage * C -25 +70 * during storage * C -40 +80 Protection class IP B10 value / with high demand rate / according to SN 31920 Proportion of dangerous failures / with high demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920	• at DC-13		
at 110 V / rated value at 230 V / rated value A 0.3 Supply status / pre-wired on terminal strip Product component / stand/pedestal Resistance against shock for devices without incandescent lamp / according to IEC 60068-2-27 Resistance against vibration / according to IEC 60068-2-6 Item designation according to DIN EN 61346-2 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum Ambient temperature during operating during storage Protection class IP B10 value / with high demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920	• at 24 V / rated value	Α	3
* at 230 V / rated value Supply status / pre-wired on terminal strip Product component / stand/pedestal Resistance against shock * for devices without incandescent lamp / according to IEC 60068-2-27 Resistance against vibration / according to IEC 60068-2-6 Item designation * according to DIN EN 61346-2 * according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum Ambient temperature * during operating * during storage Protection class IP B10 value / with high demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920	• at 48 V / rated value	Α	1.5
Supply status / pre-wired on terminal strip Product component / stand/pedestal Resistance against shock • for devices without incandescent lamp / according to IEC 60068-2-227 Resistance against vibration / according to IEC 60068-2-6 Item designation • according to DIN EN 61346-2 • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum Ambient temperature • during operating • during storage Protection class IP B10 value / with high demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920	• at 110 V / rated value	Α	0.7
Product component / stand/pedestal Resistance against shock • for devices without incandescent lamp / according to IEC 60068- 2-27 Resistance against vibration / according to IEC 60068-2-6 tem designation • according to DIN EN 61346-2 • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum N·m 1 Ambient temperature • during operating • during storage Protection class IP B10 value / with high demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / 300 20 Proportion of dangerous failures / with low demand rate / 300 20	• at 230 V / rated value	Α	0.3
Resistance against shock • for devices without incandescent lamp / according to IEC 60068- 2-27 Resistance against vibration / according to IEC 60068-2-6 Item designation • according to DIN EN 61346-2 • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum Ambient temperature • during operating • during storage Protection class IP B10 value / with high demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920	Supply status / pre-wired on terminal strip		No
• for devices without incandescent lamp / according to IEC 60068-2-27 Resistance against vibration / according to IEC 60068-2-6 Item designation • according to DIN EN 61346-2 • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum Ambient temperature • during operating • during storage Protection class IP B10 value / with high demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920	Product component / stand/pedestal		No
Resistance against vibration / according to IEC 60068-2-6 Item designation • according to DIN EN 61346-2 • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum Ambient temperature • during operating • during storage Protection class IP B10 value / with high demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920	Resistance against shock		
Item designation • according to DIN EN 61346-2 • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum N·m 1 Ambient temperature • during operating • during storage Protection class IP B10 value / with high demand rate / according to SN 31920 Proportion of dangerous failures / with high demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920	· · · · · · · · · · · · · · · · · · ·		<= 50g
according to DIN EN 61346-2 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum N·m 1 Ambient temperature during operating during storage Protection class IP B10 value / with high demand rate / according to SN 31920 Proportion of dangerous failures / with high demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920	Resistance against vibration / according to IEC 60068-2-6		20 200 Hz: 5g
* according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum Ambient temperature * during operating * C	Item designation		
Tightening torque / of the screws in the bracket / maximum Ambient temperature • during operating • during storage Protection class IP B10 value / with high demand rate / according to SN 31920 Proportion of dangerous failures / with high demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of sN 31920 Proportion of dangerous failures / with low demand rate / was according to SN 31920	according to DIN EN 61346-2		s
Ambient temperature • during operating • during storage • during storage • C -25 +70 • during storage Protection class IP B10 value / with high demand rate / according to SN 31920 Proportion of dangerous failures / with high demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / was 20			S
 during operating during storage C -25 +70 during storage C -40 +80 Protection class IP B10 value / with high demand rate / according to SN 31920 Proportion of dangerous failures / with high demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 20	Tightening torque / of the screws in the bracket / maximum	N⋅m	1
 during storage C -40 +80 Protection class IP B10 value / with high demand rate / according to SN 31920 Proportion of dangerous failures / with high demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 	Ambient temperature		
Protection class IP B10 value / with high demand rate / according to SN 31920 Proportion of dangerous failures / with high demand rate / according to SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920 Proportion of SN 31920 Proportion of dangerous failures / with low demand rate / according to SN 31920	during operating	°C	-25 +70
B10 value / with high demand rate / according to SN 31920 Proportion of dangerous failures / with high demand rate /	during storage	°C	-40 +80
Proportion of dangerous failures / with high demand rate /	Protection class IP		IP65
according to SN 31920 Proportion of dangerous failures / with low demand rate / % 20 according to SN 31920	B10 value / with high demand rate / according to SN 31920		100,000
according to SN 31920		%	20
Failure rate (FIT value) / with low demand rate / according to SN		%	20
31920	Failure rate (FIT value) / with low demand rate / according to SN 31920	FIT	100
T1 value / for proof test interval or service life / according to IEC a 20 61508		а	20
climatic class / during the operating phase / according to EN 60721 3K6			3K6
Shape / of the installation hole round	Shape / of the installation hole		round
Mounting diameter mm 22	Mounting diameter	mm	22

Width	mm	85
Height	mm	85
Depth	mm	64

Certificates/approvals:

General Product Approval

Test Certificates





Special Test Certificate

Shipping Approval

other









Confirmation



Further information:

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

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

Industry Mall (Online ordering system)

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

Cax online generator:

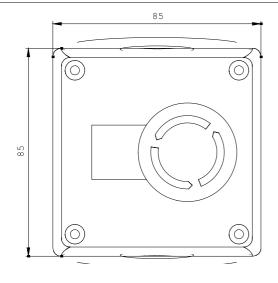
http://www.siemens.com/cax

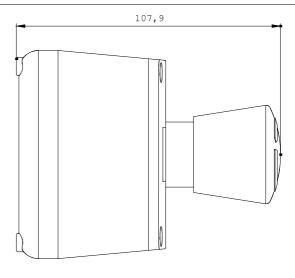
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3SB3801-0DG3/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3SB3801-0DG3}$





last change:

May 14, 2012