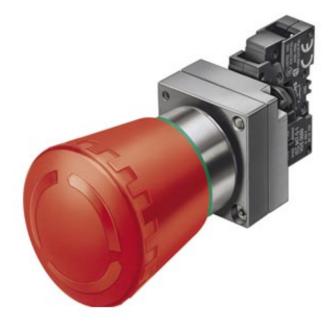
SIEMENS

Product data sheet

3SB3603-1HR20



22MM METAL ROUND COMPLETE UNIT COMBINATION: EMERGEN.-STOP MUSHR.PUSHB. 40MM LATCH.W. ROT. -TO-UNLATCH MECH. WITH YELLOW BACKING PLATE SCREW TERMINAL,

1NC WITH HOLDER RED INSCRIPTION: EMERGENCY STOP

Enclosure:				
material / of the housing	metal			
Shape / of the housing front	round			
Actuator / signaling device:				
Design of the product	Complete unit round with positive latching in accordance with ISO 13850			
Design of the operating mechanism	Emergency stop mushroom pushbutton			
Type of unlocking device	rotate-to-unlatch mechanism			
Material / of the activation element	plastic			
Number of switching positions	2			
Product component / front ring	No			

Contact block / lampholder				
Design of the electrical connection		screw-type terminals		
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		

Product extension / optional / fluorescent materials No Accessories: Product component / holder for 3 switching elements No General technical details: No Operating voltage AC/DC operating current V S 400 • at AC-12 • at AC-12 • at AC-12 · at AC-13 • at AC-15 · at AC-15 • at AC-15 · at AC-15 • at AC-15 · at AC-15 • at AC-15 · at AC-16 • at AC-15 · at AC-16 • at AC-15 · at AC-17 • at AC-15 · at AC-16 • at AC-15 · at AC-16 • at AC-15 · at AC-16 • at AC-16 · at AC-16 • at AC-17 · at AC-16 • at AC-15 · at AC-16 • at AC-16 · at AC-16 • at AC-17 · at AC-16 • at AC-16 · at AC-16 • at AC-17 · at AC-16 • at AC-17 · at AC-16 • at AC-17 · at AC-16 • at AC-16 · at AC-16 • at AC-17 · at AC-17 •	Product component / fluorescent materials		No
Product component / holder for 3 switching elements No Central technical details: AC/DC Operating voltage AC/DC • rated value V 5 400 Operating current V 5 400 • at AC-12 A 10 • at AC V rated value A 10 • at AC V rated value A 10 • at AC V/rated value A 6 • at AC V/rated value A 5 • at AC V/rated value A 5 • at BC V/rated value <th>Product extension / optional / fluorescent materials</th> <th></th> <th>No</th>	Product extension / optional / fluorescent materials		No
Product component / holder for 3 switching elements No Central technical details: AC/DC Operating voltage AC/DC • rated value V 5 400 Operating current V 5 400 • at AC-12 A 10 • at AC V rated value A 10 • at AC V rated value A 10 • at AC V/rated value A 6 • at AC V/rated value A 5 • at AC V/rated value A 5 • at BC V/rated value <th>Assessation</th> <th></th> <th></th>	Assessation		
General technical details: Type of voltage / of the operating voltage AC/DC Operating surrent V S 400 •inted value V S 400 Operating surrent V S 400 •inted value V S 400 •inted value V S 400 •inted value A 10 •inted value A 6 •inted value A 5 •inted value A 5 •inted value A 5 •int 10 V/ rated value A 3			No
Type of voltage / of the operating voltage AC/DC Operating voltage V 5 400 operating current V 5 400 • at AC-12 AC 10 • at Ad V/rated value AA 10 • at Ad O/ / rated value AA 10 • at AdO V/rated value AA 10 • at AdO V/rated value AA 6 • at AdO V/rated value AA 5 • at AdO V/rated value AA 5 • at AdV / rated value AA 5 <th>Fround component / notice for 5 switching elements</th> <th></th> <th></th>	Fround component / notice for 5 switching elements		
An a constraint of the constrain	General technical details:		
• rated valueV5 400Operating current • at AC-12A10• at 24 V/ rated valueA10• at 48 V/ rated valueA10• at 48 V/ rated valueA10• at 40 V/ rated valueA10• at 400 V/ rated valueA10• at 400 V/ rated valueA10• at 400 V/ rated valueA6• at 42 V/ rated valueA6• at 42 V/ rated valueA6• at 43 V/ rated valueA6• at 43 V/ rated valueA6• at 40 V/ rated valueA6• at 230 V/ rated valueA6• at 40 V/ rated valueA6• at 230 V/ rated valueA6• at 230 V/ rated valueA10• at 240 V/ rated valueA6• at 230 V/ rated valueA6• at 240 V/ rated valueA10• at 240 V/ rated valueA10• at 240 V/ rated valueA10• at 240 V/ rated valueA25• at 240 V/ rated valueA15• at 240 V/ rated valueA15• at 240 V/ rated valueA3• at 240 V/ rated valueA10• at 240 V/ rated valueA1• at 240 V/ rated valueA1• at 240 V/ rated valueA1• at 240 V/ rated valueA3• at 240 V/ rated valueA3• at	Type of voltage / of the operating voltage		AC/DC
Operating currentAImage: constraint of the second se	Operating voltage		
• at AC-12Image: state of the st	rated value	V	5 400
• at 24 V/ rated valueA0• at 48 V/ rated valueA0• at 100 V/ rated valueA10• at 230 V/ rated valueA10• at 400 V/ rated valueA10• at AC-15• at 24 V/ rated valueA6• at 24 V/ rated valueA6• at 48 V/ rated valueA6• at 400 V/ rated valueA6• at 230 V/ rated valueA10• at 24 V/ rated valueA5• at 250 V/ rated valueA5• at 230 V/ rated valueA3• at 24 V/ rated valueA3 <td>Operating current</td> <td></td> <td></td>	Operating current		
• at 48 V / rated valueA10• at 110 V / rated valueA10• at 230 V / rated valueA10• at 400 V / rated valueA10• at 24 V / rated valueA6• at 24 V / rated valueA6• at 48 V / rated valueA6• at 100 V / rated valueA6• at 230 V / rated valueA6• at 24 V / rated valueA6• at 24 V / rated valueA6• at 230 V / rated valueA6• at 24 V / rated valueA5• at 24 V / rated valueA5• at 24 V / rated valueA5• at 24 V / rated valueA10• at 24 V / rated valueA5• at 230 V / rated valueA5• at 24 V / rated valueA5• at 24 V / rated valueA5• at 25 V / rated valueA1• at 24 V / rated valueA3• at 25 V / rated valueA3• at 24 V / rated valueA3• at	• at AC-12		
• at 110 V/rated valueA10• at 230 V/rated valueA10• at 400 V/rated valueA10• at 42 V/rated valueA6• at 24 V/rated valueA6• at 48 V/rated valueA6• at 110 V/rated valueA6• at 230 V/rated valueA6• at 24 V/rated valueA5• at 24 V/rated valueA10• at 24 V/rated valueA5• at 24 V/rated valueA5• at 24 V/rated valueA10• at 24 V/rated valueA5• at 230 V/rated valueA10• at 24 V/rated valueA5• at 24 V/rated valueA5• at 230 V/rated valueA10• at 230 V/rated valueA10• at 230 V/rated valueA10• at 230 V/rated valueA10• at 230 V/rated valueA3• at 24 V/rated valueA3• at 230 V/rated valueA15• at 24 V/rated valueA0.3• at 25 V/rated valueA0.3• at 26 V/rated valueA0.3• at 27 V/rated valueA0.3• at 28 V/rated valueC100• at 29 V/rated valueIn1000• at 29 V/rated valueIn1000• at 29 V/rated valueIn1000• at 29 V/rated valueIn1000• at 29 V/rated valueIn </td <td>• at 24 V / rated value</td> <td>А</td> <td>10</td>	• at 24 V / rated value	А	10
at 230 V/ rated valueA10• at 240 V/ rated valueA10• at 400 V/ rated valueA6• at 24 V/ rated valueA6• at 48 V/ rated valueA6• at 48 V/ rated valueA6• at 230 V/ rated valueA6• at 24 V/ rated valueA6• at 400 V/ rated valueA10• at 24 V/ rated valueA5• at 24 V/ rated valueA5• at 24 V/ rated valueA10• at 250 V/ rated valueA10• at 24 V/ rated valueA10• at 24 V/ rated valueA5• at 24 V/ rated valueA10• at 24 V/ rated valueA3• at 24 V/ rated valueA10• at 24 V/ rated valueA3• at 25 V / rated valueA3• at 26 V / rated valueA3• at 27 V / rated valueA3• at 28 V / rated valueA3• at 29 V / rated value	• at 48 V / rated value	А	10
• at 400 V / rated valueA10• at AC-15A6• at 24 V / rated valueA6• at 48 V / rated valueA6• at 48 V / rated valueA6• at 230 V / rated valueA6• at 200 V / rated valueA6• at 200 V / rated valueA3• at 200 V / rated valueA10• at 240 V / rated valueA5• at 240 V / rated valueA5• at 240 V / rated valueA10• at 480 V / rated valueA5• at 240 V / rated valueA10• at 250 V / rated valueA3• at 200 V / rated valueA3• at 240 V / rated valueA3• at 250 V / rated valueA3• at 230 V / rated valueA3• br devices without incandescent lamp / according to IEC 60068-24A3Ceprating cycles / maximuM1000Mechanical Operating cycles as operating trypezalM30.000Item designationItem designationItem designation	• at 110 V / rated value	А	10
+ at AC-15Image: AC-15AB• at 24 V/ rated valueAB• at 48 V/ rated valueAB• at 110 V/ rated valueAB• at 230 V/ rated valueAB• at 400 V/ rated valueAB• at 400 V/ rated valueAB• at 24 V/ rated valueAD• at 25 V/ rated valueAD• at 200 V/ rated valueAD• at 24 V/ rated valueAD• at 230 V/ rated valueAD• at 24 V/ rated valueAD• at 25 V/ rated valueAD• at 26 V/ rated valueAD• at 27 V/ rated valueAD• at 280 V/ rated valueAD• at 290 V/ rated valueAD• at 290 V/ rated valueAD• at 290 V/ rated value	• at 230 V / rated value	А	10
• at 24 V / rated valueA6• at 48 V / rated valueA6• at 110 V / rated valueA6• at 230 V / rated valueA6• at 230 V / rated valueA6• at 400 V / rated valueA6• at DC-12• at 24 V / rated valueA10• at 24 V / rated valueA5• at 24 V / rated valueA2.5• at 24 V / rated valueA1• at 230 V / rated valueA1• at 230 V / rated valueA3• at 24 V / rated valueA3• at 25 V / rated valueA3• at 25 V / rated valueA3• at 25 V / rated valueA3• at 26 V / rated valueA3• at 27 V / rated valueA3• at 28 V / rated valueA3• at 29 V / rated val	• at 400 V / rated value	А	10
• at 48 V / rated valueA6• at 110 V / rated valueA6• at 230 V / rated valueA6• at 400 V / rated valueA3• at 400 V / rated valueA10• at 24 V / rated valueA5• at 24 V / rated valueA5• at 48 V / rated valueA10• at 48 V / rated valueA10• at 230 V / rated valueA1• at 230 V / rated valueA1• at 230 V / rated valueA1• at 230 V / rated valueA3• at 24 V / rated valueA3• at 25• at 230 V / rated valueA3• at 230 V / rated valueA0.7• at 230 V / rated valueA0.3• bi devices without incandescent lamp / according to IEC 60068-2-62020200 Hz: 5g277272020200 Hz: 5g30.000Bechanical operating cycles as operating time / typical130.000Iten designation11100	• at AC-15		
• at 110 V / rated valueA6• at 230 V / rated valueA6• at 400 V / rated valueA3• at 400 V / rated valueA10• at 24 V / rated valueA5• at 24 V / rated valueA5• at 48 V / rated valueA2.5• at 230 V / rated valueA1• at 230 V / rated valueA3• at 230 V / rated valueA3• at 24 V / rated valueA3• at 25.3• at 24 V / rated valueA3• at 24 V / rated valueA3• at 25.4A3• at 24 V / rated valueA3• at 25.4A3• at 24 V / rated valueA3• at 25.4A3• at 26 V / rated valueA3• at 27.5A3• at 230 V / rated valueA3• bric devices without incandescent lamp / according to IEC 60068-2-6C20200 Hz: 5gOperating cycles a soperating time / typicalI30.000 <tr <td="">30.000</tr>	• at 24 V / rated value	А	6
• at 230 V / rated valueA6• at 400 V / rated valueA3• at DC-12A10• at 24 V / rated valueA5• at 24 V / rated valueA2.5• at 48 V / rated valueA1• at 230 V / rated valueA1• at 24 V / rated valueA3• at 24 V / rated valueA1• at 230 V / rated valueA3• at 24 V / rated valueA0.7• at 230 V / rated valueA0.3• at 30 V / rated valueA0.3• at 230 V / rated value <td< td=""><td>• at 48 V / rated value</td><td>А</td><td>6</td></td<>	• at 48 V / rated value	А	6
• at 400 V / rated valueA3• at DC-12A10• at 24 V / rated valueA5• at 48 V / rated valueA5• at 48 V / rated valueA2.5• at 230 V / rated valueA1• at 24 V / rated valueA3• at 24 V / rated valueA1.5• at 24 V / rated valueA0.3• at 30 V / rated valueA0.3• at 30 V / rated valueA0.3• at 230 V / rated valueA0.3• at 230 V / rated valueA0.3• at 230 V / rated valueA0.3• bro devices without incandescent lamp / according to IEC 60068- 2-272020200 Hz: 5gRestance against vibration / according to IEC 60068-26200.000Parting cycles / maximum1/h1000Identical operating cycles as operating time / typical630.000	• at 110 V / rated value	А	6
• at DC-12Image: constraint of the second secon	• at 230 V / rated value	А	6
• at 24 V / rated valueA10• at 48 V / rated valueA5• at 10 V / rated valueA2.5• at 230 V / rated valueA1• at DC-13• at 24 V / rated valueA3• at 24 V / rated valueA3• at 24 V / rated valueA3• at 24 V / rated valueA0.7• at 230 V / rated valueA0.3• at 230 V / rated valueA0.3• at 230 V / rated valueA0.3• for devices without incandescent lamp / according to IEC 60068-2620.20 Hz: 5922720200 Hz: 5920200 Hz: 59Poerating cycles / maximum1/h1.000Mechanical operating cycles as operating time / typical500,000Item designationItem designationItem designation	• at 400 V / rated value	А	3
• at 48 V/rated valueA5• at 10 V/rated valueA2.5• at 230 V/rated valueA1• at DC-13• at 24 V/rated valueA3• at 24 V/rated valueA1.5• at 48 V/rated valueA0.7• at 30 V/rated valueA0.3• at 230 V/rated valueA0.3• at 230 V/rated valueA0.3• at 230 V/rated valueA0.3• for devices without incandescent lamp / according to IEC 60068-2-620200 Hz: 5gOperating cycles / maximum1/h1,000Mechanical operating cycles as operating time / typicalI300,000	• at DC-12		
• at 110 V/ rated valueA2.5• at 230 V/ rated valueA1• at DC-13A3• at 24 V/ rated valueA3• at 24 V/ rated valueA1.5• at 48 V/ rated valueA0.7• at 110 V/ rated valueA0.3• at 230 V/ rated valueA0.3• at 230 V/ rated valueA0.3• for devices without incandescent lamp / according to IEC 60068- 2-2720 200 Hz: 5gPerating cycles / maximum1/h1,000Mechanical operating cycles as operating time / typical6300,000Item designation666	• at 24 V / rated value	А	10
• at 230 V / rated valueA1• at DC-13A3• at 24 V / rated valueA3• at 24 V / rated valueA1.5• at 48 V / rated valueA0.7• at 110 V / rated valueA0.3• at 230 V / rated valueA0.3• at 230 V / rated valueA0.3• for devices without incandescent lamp / according to IEC 60068- 2-2720 200 Hz: 5gResistance against vibration / according to IEC 60068-2-60.3Operating cycles / maximum1/h1.000Mechanical operating cycles as operating time / typical6300,000	• at 48 V / rated value	А	5
• at DC-13Image: Constraint of the second secon	• at 110 V / rated value	А	2.5
• at 24 V / rated valueA3• at 48 V / rated valueA1.5• at 10 V / rated valueA0.7• at 230 V / rated valueA0.3• for devices without incandescent lamp / according to IEC 60068- 2-27C20 200 Hz: 5gResistance against vibration / according to IEC 60068-2-601/h1,000Mechanical operating cycles as operating time / typicalI300,000Item designationIII	• at 230 V / rated value	А	1
• at 48 V / rated valueA1.5• at 110 V / rated valueA0.7• at 230 V / rated valueA0.3• for devices without incandescent lamp / according to IEC 60068-2-6SSResistance against vibration / according to IEC 60068-2-6I20 200 Hz: 5gOperating cycles / maximum1/h1,000Mechanical operating cycles as operating time / typicalI300,000	• at DC-13		
• at 110 V / rated valueA0.7• at 230 V / rated valueA0.3• for devices without incandescent lamp / according to IEC 60068- 2-27-50gResistance against vibration / according to IEC 60068-2-620 200 Hz: 5gOperating cycles / maximum1/h1,000Mechanical operating cycles as operating time / typical6300,000Item designation66	• at 24 V / rated value	А	3
• at 230 V / rated valueA0.3• for devices without incandescent lamp / according to IEC 60068- 2-27-= 50gResistance against vibration / according to IEC 60068-2-620 200 Hz: 5gOperating cycles / maximum1/h1,000Mechanical operating cycles as operating time / typical6300,000Item designation66	• at 48 V / rated value	А	1.5
• for devices without incandescent lamp / according to IEC 60068- 2-27<Resistance against vibration / according to IEC 60068-2-620 200 Hz: 5gOperating cycles / maximum1/h1,000Mechanical operating cycles as operating time / typical300,000Item designationItem designation	• at 110 V / rated value	А	0.7
2-27Image: Constraint of the constraint o	• at 230 V / rated value	А	0.3
Operating cycles / maximum 1/h 1,000 Mechanical operating cycles as operating time / typical 300,000 Item designation Item designation			<= 50g
Mechanical operating cycles as operating time / typical 300,000 Item designation Item designation	Resistance against vibration / according to IEC 60068-2-6		20 200 Hz: 5g
Item designation	Operating cycles / maximum	1/h	1,000
	Mechanical operating cycles as operating time / typical		300,000
according to DIN EN 61346-2 S	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
during operating	°C	-25 +70
during storage	°C	-40 +80
Protection class IP		IP67
B10 value / with high demand rate / according to SN 31920		100,000
Proportion of dangerous failures / with high demand rate / according to SN 31920	%	20
Proportion of dangerous failures / with low demand rate / according to SN 31920	%	20
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 61508	а	20
climatic class / during the operating phase / according to EN 60721		3K6
Type of mounting		front mounting
Shape / of the installation hole		round
Installation width	mm	40.5
Mounting diameter	mm	22
Mounting height	mm	49
Mounting depth	mm	49

Certificates/approvals:

General Product	Approval			Test Certificates	3
	(SA)	GOST		Special Test Certificate	
Shipping Approva	al				
ABS	B U R E A U VERITAS	ĴŠ DNV DNV	Llovd's Register LRS	PRS	RINA
other					
Confirmation	other	(UL)			

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/3SB3603-1HR20/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3SB3603-1HR20

last change:

Aug 3, 2012