



Sample image

Datasheet

Article number: 70014347

Designation: KG20B.T104/01.E

Description: Schalter globaler Trenner

Contact development: T304
Face plate engraving: F456
Type of mounting: E

Type Size: S1	
Classification Contact: Rigid contact bridge	
Classification Contact Mat: Silver	
Classification Terminal: Screw terminal	

IEC 60947-3 EN 60947-3, VDE	0660 Teil 107					
Rated insulation voltage Ui		V 1	40 40 (50			
		Voltag	e (V) AC / DC 690 AC			
Rated impulse withstand voltage Uimp			690 AC			
Voltage (kV) Overvoltage catego	ry Pollution o	legree Supply sy	stem			Function
6 III	3		lines with grounded common r	neutral termination		switch
Rated uninterrupted current lu/lth		74	mico mini groundoù common i	iodital tollillation		
	temperature (°C)	Peak temperature (°C)	additional requirements			
25	50		Ambient temperature +50°C	during 24 hours with	peaks up to +55°C	
Conventional enclosed thermal current I	the			-		
				No. of stages (f	from -	
Current (A) Ambient temperature (°C)	Peak temperature (°C)	Additional requirements			to) Mounting	Mounting size
25 35	40	Ambient temperature +35°0 up to +40°C	C during 24 hours with peaks			-
Rated operational current le						
Utilization category				Itage (V)		Current (A)
AC-32A				20 - 400		20
AC-20A				690		25
AC-21A				20 - 690		25
AC-22A				220 - 500		20
AC-22A			6	660 - 690		20
Rated operational power						
Utilization category		Voltage (V)	No. of phases		No. of poles	Power (kW)
AC-3		220 - 240	3		3	4
AC-3		380 - 440	3		3	5,50
AC-3		500 - 500	3		3	5,50
AC-3		660 - 690	3		3	5,50
AC-3		220 - 240	1		2	2,20
AC-3		380 - 440	1		2	3,70
AC-23A		220 - 240	3		3	5,50
AC-23A		380 - 440	3		3	7,50
AC-23A		500 - 500	3		3	7,50
AC-23A		660 - 690	3		3	7,50
AC-23A		220 - 240	1		2	3
AC-23A		380 - 440	1		2	5
Max Fuse Rating IEC						0 (4)
Fuse characteristic αG				No. of Fuses		Current (A) 35
Rated conditional short-circuit current						
Curi	rent (kA)		Text	cut-off current lo	c (kA)	Durchlassenergie I²t (kA²s)
	15				3,50	5,62
Rated breaking capacity						
	Voltage (V)		Cu		category / UL (DOL)	
	220 - 240			180 -		
	380 - 440			180 -		
	660 - 690			125 -		
Rated short-circuit making capacity Icm						
						Current (A)
						1000
UL60947-4-1, UL508						
Nominal Voltage						
· ·		Voltag	e (V) AC / DC			
			600 AC			



Rated insulation	on voltage Ui			Voltage (V) AC / DC				
				600 AC				
Rated thermal	current	2 1(1)			(00) 111:::	17.		
		Current (A) 25		Ambien	t temperature (°C) Addition 0 - 40	onal Text		
Horsepower ra	ating	20	'		0 40			
	e Motor Starting				Voltage (V)	No. of phases	No. of poles	Power (H
DOL					110 - 120	1	2	
DOL					220 - 240	1	2	
DOL					277 - 277	1	2	
DOL					415 - 415	1	2	
DOL					440 - 480	1	2	
DOL DOL					550 - 600 110 - 120	1 3	2 3	
DOL					200 - 240	3	3	7
DOL					415 - 415	3	3	•
DOL					440 - 480	3	3	
DOL					550 - 600	3	3	
Pilot duty ratin	ng code							
Duty Code								
A600								
SCCR / Max. fu								
Conditions of a		ita aanabla af daliiyadan nad	t maana than 10kA maa		/ a.a. waayb.am muataataal	hu Tima DV1 firesa		
				s symmetrical amperes, 600\ Its dc max. when protected b				
				al amperes at 600V max., wh				
Temp. rating o		not more than 0.		po. 00 at 000 v max., wir	protocted by TOA Olds	0000.		
,		Temperature rating (°C)			Current (A) Text			
		60 - 75			·			
Connecting ins	structions						·	
Markings								
	at surface of a type 1 er							
	handle and position ind	licating means to be used w	ith these industrial sv	vitches should be provided fr	om the manufacturer.			
General Use	V 1/2 (1.0)	2 (4)	N 6 1				N 6	
AC / DC	Voltage (V) 277	Current (A)	No. of phases	No. of poles			No. of	contacts in se
AC AC	600	25 25	1	1 2				
AC	600	25	3	3				
	000							
Suitable as Mo	otor disconnect							
Suitable as Mo Yes/No	otor disconnect							
Yes/No Y								
Yes/No Y General Inform								
Yes/No Y General Inform Text	nation							
Yes/No Y General Inforn Text - When intende	nation ed for use as switch use			e provided with a method of				
Yes/No Y General Inform Text - When intende - The operating	nation ed for use as switch use g handle and position in	dicating means to be used v	with these manual mo	otor controllers should be pro			g handle and position	indicating me
Yes/No Y General Inform Text - When intende - The operating to be used sh	nation ed for use as switch use g handle and position in lould have been previou	dicating means to be used visly evaluated in combination	with these manual mo n with the manual mo	otor controllers should be pro otor controllers.	ovided from the manufact		g handle and position	indicating me
Yes/No Y General Inform Text - When intende - The operating to be used sh - When intende	nation ed for use as switch use g handle and position in lould have been previou	dicating means to be used visly evaluated in combination	with these manual mo n with the manual mo	otor controllers should be pro	ovided from the manufact		g handle and position	indicating me
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Yes/No Y General Inform Text - When intende - The operating to be used sh - When intende	nation ed for use as switch use g handle and position in lould have been previou ed for use as a motor di	dicating means to be used visly evaluated in combination	with these manual mo n with the manual mo	otor controllers should be pro otor controllers. ethod of being locked in the (ovided from the manufact		g handle and position	indicating me
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Yes/No Y General Inform Text - When intende - The operating to be used sh - When intende CSA Nominal Volta	nation ed for use as switch use g handle and position in ould have been previou ed for use as a motor di ge	dicating means to be used visly evaluated in combination	with these manual mo n with the manual mo be provided with a m	voltage (V) AC / DC 600 AC	ovided from the manufact	urer, or the operating	g handle and position	indicating me
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General Use AC / DC Voltage (V) C AC 600	Current (A)						
AC 600		No. of phases	No. of poles			No. of contacts	in series
10	25	1	2				1
AC 600	25	3	3				1
MASTER DATA							
Max. number of stages		nu	mber of stages Modul				
		Hui	8 KO				
Switch Measures							
Picture name	В	F	·	1	H1	H2	H3
H N							
	-	-	5-	4	-		-
GENERAL TECHNICAL INFORMA	ATION						
Tightening torque of screws							
		tightenii	ng torque (Nm)			tightening torq	
Strinning langth			1,25				11
Stripping length			Length (mm)				
			9 STRIPPINGI	ENGTH			
Minimal ratings (voltage/current)							
Voltage (V)		` '	ronment conditions		nment conditions 2	Environment conditions 3	
		Ami con	pient air must be free of part tamination with sulfur and/o	icuiar r In cas	e extraordinary contami	nation	
20			urous components such as I	H2S with d	ust is expected an adequate of the control of the c	uate	
Rated short-time withstand current lcw		5 etc.		uust	notection is required.		
			Time (s)			Cu	ırrent (A)
			11				350
Size of conductor			<u> </u>		Cross section (mm²) or		
composition of conductor	Min.	/ Max. value	No. of conducte	or per terminal	(AWG/kcmil)	Material of the wire	
flexible wire	Max.				AWG 10	Copper	
flexible wire	Max.				4mm² 6mm²	Copper	
Single-core or stranded wire Single-core or stranded wire	Max. Max.				AWG 10	Copper Copper	
flexible wire with sleeve	Max.				4mm²	Copper	
Approbations							
Specification							Marking
							EAE
EAC							
EAC							LIIL
EAC							
CE marking							
							CE
CE marking							CE
							(€
CE marking UK Directives							(€
CE marking							UK CA Lloyds Register
CE marking UK Directives Lloyd's Register EMEA						IEC 6	UK CA Lloyds Register 0947-3
CE marking UK Directives	7					IEC 6	UK CA Lloyds Register 0947-3
CE marking UK Directives Lloyd's Register EMEA	7					IEC 6	UK CA Lloyds Kegister 0947-3
CE marking UK Directives Lloyd's Register EMEA						IEC 60 EN 60	UK CA Lloyds Register 0947-3 0947-3
CE marking UK Directives Lloyd's Register EMEA IEC 60947-3; EN 60947-3; VDE 0660 Teil10:						IEC 60 EN 60	UK UK Lloyds Register 0947-3 0947-6-1 047-6-1
CE marking UK Directives Lloyd's Register EMEA IEC 60947-3; EN 60947-3; VDE 0660 Teil10:						IEC 60 EN 60	UK UCA Lloyds Register 0947-3 0947-6-1 047-6-1
CE marking UK Directives Lloyd's Register EMEA IEC 60947-3; EN 60947-3; VDE 0660 Teil10:						IEC 60 EN 60	UK CA Lloyd's Register 0947-3 0947-6-1 047-6-1 047-6-1
CE marking UK Directives Lloyd's Register EMEA IEC 60947-3; EN 60947-3; VDE 0660 Teil10: IEC 60947-6-1; EN 60947-6-1; VDE 0660 Teil UL 60947-4-1; CSA C22.2 No. 60947-4-1						IEC 60 EN 60	UK CA Lloyd's Register 0947-3 0947-6-1 047-6-1 047-6-1
CE marking UK Directives Lloyd's Register EMEA IEC 60947-3; EN 60947-3; VDE 0660 Teil10:						IEC 60 EN 60	UK UCA Lloyds Register 0947-3 0947-6-1 047-6-1
CE marking UK Directives Lloyd's Register EMEA IEC 60947-3; EN 60947-3; VDE 0660 Teil10: IEC 60947-6-1; EN 60947-6-1; VDE 0660 Teil UL 60947-4-1; CSA C22.2 No. 60947-4-1						IEC 60 EN 60	UK Llovds Kegister 0947-3 0947-6-1 047-6-1 047-6-1
CE marking UK Directives Lloyd's Register EMEA IEC 60947-3; EN 60947-3; VDE 0660 Teil10: IEC 60947-6-1; EN 60947-6-1; VDE 0660 Teil UL 60947-4-1; CSA C22.2 No. 60947-4-1						IEC 60 EN 60	0947-3 0947-3 0947-6-1 047-6-1 047-6-1
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Electrical life (B10-Valu	e)							
Utilization		Time constant				number of series		
category	cos(φ)	(ms)	Voltage (V)	Current (A)	No. of operations	contacts AC/DC	No. of phases	No. of poles
-	0,64	-	220	20	200000	1 AC	1	1
-	0,65	_	380	5	200000	1 AC	1	1
-	0,64	-	380	10	200000	1 AC	1	1
-	0,64	-	380	15	200000	1 AC	1	1
-	0,65	-	380	20	175000	1 AC	1	1
AC-23	-	-	440	15,50	100000	1 AC	3	3
-		50	24	1	200000	1 DC	1	1
-	-	50	48	1	200000	1 DC	1	1
-	-	55	110	1	200000	1 DC	1	1
-	-	55	220	0,50	100000	1 DC	1	1

Recommended screw driver

Type of screw driver Value Cross Screwdriver PH2 Flat blade 0,8x1,2

Degree of protection

IP - Code switch terminal

IP20

Conditions during transport and storing

Minimum temperature (°C) Maximum temperature (°C) additional requirements -40 85 In case of temperatures below -5°C no shock load permissible Shock / Vibration

Values Type of oscillation Min. 4g, 2-100Hz, 1,6mm Resistance to vibration Resistance to shock min. 6g, 6ms

General Information

- EMC Note: This device is suitable for use in environment A and B.
- Do not lubricate or treat contacts.
- Switches may only be mounted, connected and set into operation by qualified persons according to the accepted rules of technology.
- Use copper wire only. Do not coat the wire end with tin.
- Terminals with factory fitted jumper links are tightened during production. Take care during installation to ensure factory fitted links are not lost by undoing both sides of linked terminals. After wiring, all terminal screws must be tightened to recommended torque specifications.
- For devices with lockable handles: the position of the handle of these devices shall be marked to guide proper operation.
- The "ON" and "OFF" position may be marked using the symbols "I" and "O" according IEC60417, Symbols 5007 and 5008.

Creepage distance

Distance (mm) 12,70

Clearance

Distance (mm) 12,70

Further Pictures						
Picture Purpose	Picture Name					
	H010/A, H010/C		H010/B			
	Mounting Bauform	1NO + 1NC	2x 1NO + 1NC	Mounting Bauform	1NO + 1NC	2x 1NO + 1NC
	E	33 41 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	33 41 53 61 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E	33 41 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	33 41 53 61 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	VE	31 43 1 1 32 44	31 43 51 63	VE	31 43 	31 43 51 63

Technical Data according to UL Specificat	ions	Auxiliary Contacts KG20 - KG64B	Auxiliary Contacts KG80 - KG105C
Rated Voltage Ampere Rating	VA.C. A	600 10	600 10
Type of wire	-	Use 60/75°C copper wire only	Use 75°C copper wire only
Temperature rating of wire	° C	60/75	75
Temperature rating of wire Torque value for field wiring terminals	° C Ib-in.	60/75	75 -

AUX.CONT.

Operating temperature

Min. Temperature [°C] Max. Temperature [°C]

Waste Electrical & Electronic Equipment (WEEE)

Description



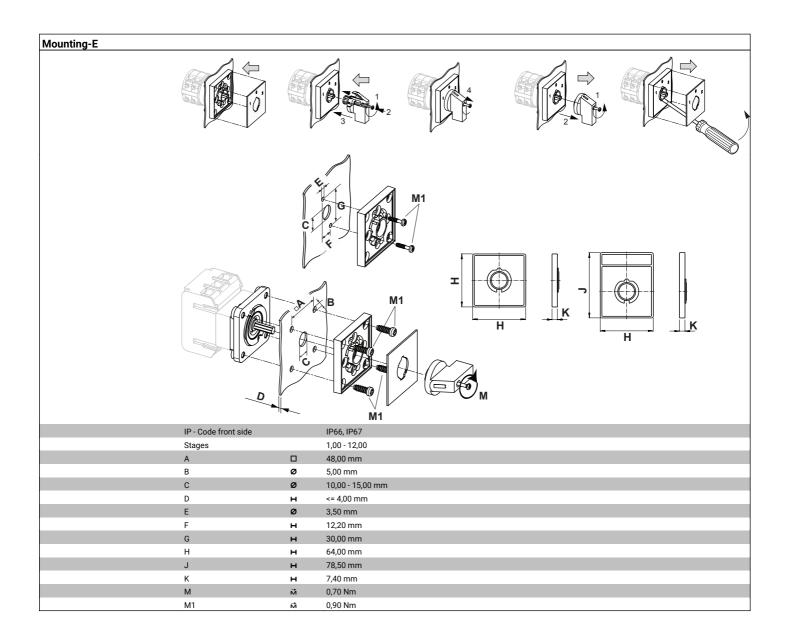
Do not throw in the trash as care must be taken to ensure environmentally sound disposal and recycling. Please either use an environmentally friendly waste disposal company; return to the supplier for disposal; or return direct to the manufacturer, Kraus & Naimer. You can find local Kraus & Naimer offices at www.krausnaimer.com





Description

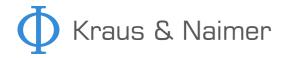
WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.



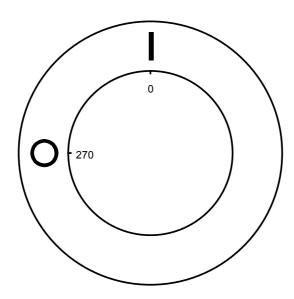


Wiring diagram KG20B.T304.E

Male & Control &	Na	imer	KG2	20B	T304			Page	1 of 1
Face Plate									
1		L1 1	L2 3	L3 5	N 7	9	11	13	15
0 270 90		\	\	\	\\ \				
Switching Angle 90		2	4	6	8	10	12	14	16
Total switching Angle 90		T1	T2	Т3	N				
0	270								
1	0								
	90								
	180								



Face plate s1.F456/C10.V11H













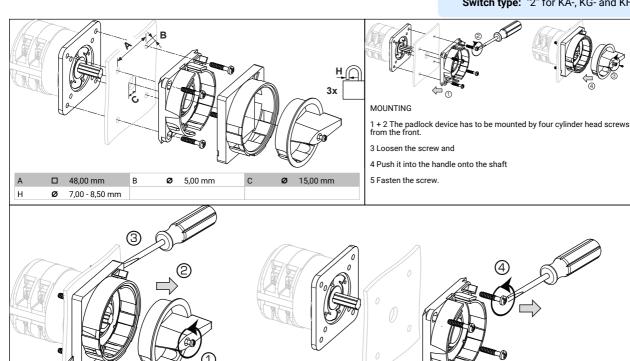
Sample image

PADLOCK DEVICE with F-handle ring

Designation: S1.V840G/A71/A2
Colour of F-handle ring: "A" black
Colour of face ring: "7" electro-grey
Locking position: "1" at 09:00 (1x90°)
Type of mounting: "A" for type of mounting E
Type of mounting: "A" for type of mounting GK

(Rose)

Switch type: "2" for KA-, KG- and KH(R)-switches



- 1 Loose handle screw
- 2 remove handle.
- 3 Insert a proper auxiliary tool at those points of the frame of the device which are marked by a srew driver on the drawing and remove the frame.
- 4 Fixing screws can be loosen now.