



Sample image




## Datasheet



**Article number:** 70000182

**Designation:** KG10.T103/D-A050.KS51V

**Description:** Switch

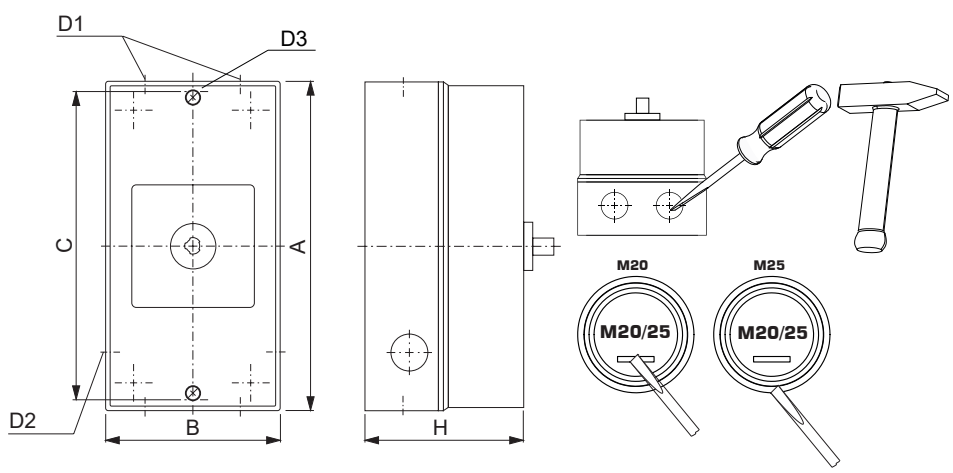
<b>IEC 60947-3 EN 60947-3, VDE 0660 Teil 107</b>						
<b>Rated insulation voltage Ui</b>						
Voltage (V) AC / DC						
690 AC						
<b>Rated uninterrupted current Iu/Ith</b>						
Current (A)	Ambient temperature (°C)	Peak temperature (°C) additional requirements				
20	50	55 Ambient temperature +50°C during 24 hours with peaks up to +55°C				
<b>Rated operational current Ie</b>						
<b>Utilization category</b>				Voltage (V)		Current (A)
AC-15				220 - 240		6
AC-15				380 - 440		4
<b>Rated operational power</b>						
<b>Utilization category</b>		Voltage (V)	No. of phases	No. of poles	Power (kW)	
AC-3		220 - 240	3	3	2,20	
AC-3		380 - 440	3	3	3,70	
AC-3		660 - 690	3	3	3,70	
AC-3		220 - 240	1	2	1,10	
AC-3		380 - 440	1	2	1,50	
AC-23A		220 - 240	3	3	3	
AC-23A		380 - 440	3	3	5,50	
AC-23A		660 - 690	3	3	5,50	
AC-23A		220 - 240	1	2	1,50	
AC-23A		380 - 440	1	2	2,20	
<b>Max. Fuse rating IEC</b>						
<b>Fuse characteristic</b>				No. of Fuses		Current (A)
gG				1		20
<b>UL60947-4-1 , UL508</b>						
<b>Nominal Voltage</b>						
Voltage (V) AC / DC						
300 AC						
<b>Rated insulation voltage Ui</b>						
Voltage (V) AC / DC						
300 AC						
<b>Rated thermal current</b>						
Current (A)			Ambient temperature (°C) Additional Text			
20			0 - 40 --			
<b>Horsepower rating</b>						
<b>Across-the-Line Motor Starting</b>		Voltage (V)	No. of phases	No. of poles	Power (HP)	Ambient temperature [°C]
DOL		110 - 120	1	2	0,50	40
DOL		220 - 240	1	2	1	40
DOL		277 - 277	1	2	1	40
DOL		110 - 120	3	3	1	40
DOL		220 - 240	3	3	2	40
<b>Pilot duty rating code</b>						
<b>Duty Code</b>						
A300						
<b>SCCR / Max. fuse rating</b>						
<b>Conditions of acceptability</b>						
These devices are suitable for use on circuits capable of delivering not more than 5kA rms symmetrical amperes, 300V ac max. when protected by Class J fuses.						
<b>Temp. rating of wire</b>						
Temperature rating (°C)			Current (A) Text			
60 - 75			-- Use copper wire only			
<b>Connecting instructions</b>						
<b>Markings</b>						
Break all lines.						
For use on a flat surface of a type 1 enclosure.						
<b>General Use</b>						
AC / DC	Voltage (V)	Current (A)	No. of phases	No. of poles	No. of contacts in series	
AC	277	20	1	1	1	
AC	300	20	1	2	1	

General Use						
AC / DC	Voltage (V)	Current (A)	No. of phases	No. of poles	No. of contacts in series	
AC	300	20	3	3	1	
General Information						
Text						
- The operating handle and position indicating means to be used with these manual motor controllers should be provided from the manufacturer, or the operating handle and position indicating means to be used should have been previously evaluated in combination with the manual motor controllers.						
- When intended for use as a motor disconnecter the device shall be provided with a method of being locked in the OFF-position.						
CSA						
Nominal Voltage						
Voltage (V) AC / DC						
300 AC						
Rated insulation voltage Ui						
Voltage (V) AC / DC						
300 AC						
Rated thermal current						
Current (A)		Ambient temperature (°C)		Additional Text		
20		0 - 40		-		
Horsepower rating						
Across-the-Line Motor Starting						
	Voltage (V)	No. of phases	No. of poles	Power (HP)	Ambient temperature [°C]	
DOL	110 - 120	1	2	0,50	40	
DOL	220 - 240	1	2	1	40	
DOL	277 - 277	1	2	1	40	
DOL	110 - 120	3	3	1	40	
DOL	220 - 240	3	3	2	40	
Pilot duty rating code						
Duty Code						
A300						
Temp. rating of wire						
Temperature rating (°C)			Current (A) Text			
75			-- --			
General Use						
AC / DC	Voltage (V)	Current (A)	No. of phases	No. of poles	No. of contacts in series	
AC	277	20	1	1	1	
AC	277	20	3	3	1	
GENERAL TECHNICAL INFORMATION						
Size of conductor						
composition of conductor	Min. / Max. value	No. of conductor per terminal	Cross section (mm <sup>2</sup> ) or (AWG/kcmil)		Material of the wire	
Solid wire	Min.	1	0.5mm <sup>2</sup>		Copper	
Solid wire	Min.	2	0.5mm <sup>2</sup>		Copper	
Flexible wire	Min.	1	0.75mm <sup>2</sup>		Copper	
Flexible wire	Min.	2	0.75mm <sup>2</sup>		Copper	
Flexible wire	Max.	1	AWG 12		Copper	
Flexible wire	Max.	1	2.5mm <sup>2</sup>		Copper	
Single-core or stranded wire	Max.	1	AWG 12		Copper	
Single-core or stranded wire	Max.	1	2.5mm <sup>2</sup>		Copper	
Flexible wire with ferrule according to DIN 46228	Max.	1	2.5mm <sup>2</sup>		Copper	
Flexible wire with ferrule according to DIN 46228	Min.	1	0.5mm <sup>2</sup>		Copper	
Flexible wire with ferrule according to DIN 46228	Min.	2	0.5mm <sup>2</sup>		Copper	
Stripping length						
Length (mm) --						
						
Recommended screw driver						
Type of screw driver	Value					
Cross Screwdriver	PH1					
Slot screwdriver according to DIN 5264	0,8x4					
Tightening torque of screws						
tightening torque (Nm)				tightening torque (lb-in)		
0,60				5		
Approbations						
Specification						Marking
CE marking						
UK Directives						
General Information						
Text						
- Alleen koperleidingen met of zonder vertinde/verzilverde draden (per draad) gebruiken. Het nadien vertinnen van de uiteinden is niet toegestaan.						
- Terminals with factory fitted jumper links are tightened during production for loss prevention. When opening the terminal clamps, make sure that no factory fitted links get lost and that all wire connections are properly seated.						
- After wiring, ALL terminal screws must be tightened to the specified torque values.						
- Het gebruik van een extra apparaat kan de beschermingsklasse van de gekozen bouwvorm beïnvloeden.						
- 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.						

General Information	
<i>Text</i>	
- After installation of the switches the spacings between the terminals must be sufficient to fulfill the requirement of the applicable standards.	
Waste Electrical & Electronic Equipment (WEEE)	
<i>Picture name</i>	<i>Description</i>
	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 <a href="http://www.krausnaimer.com">www.krausnaimer.com</a>
Proposition 65	
<i>Picture name</i>	<i>Description</i>
	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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .

Classification Contact: Rigid contact bridge
Classification Contact Mat: Silver
Classification Terminal: Screw terminal


### Mounting-KS51V

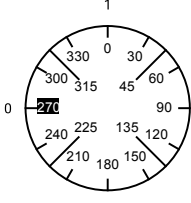
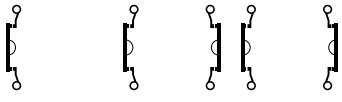


IP - Code front side	IP66, IP67, IP69k
Stages	2,00 - 4,00
A	H 121,00 mm
B	H 86,00 mm
C	H 110,00 mm
D1	Ø 4,00 x M20/M25
D2	Ø 2,00 x M20
D3	Ø 4,20 mm
H	H 90,00 mm

**Switch program**

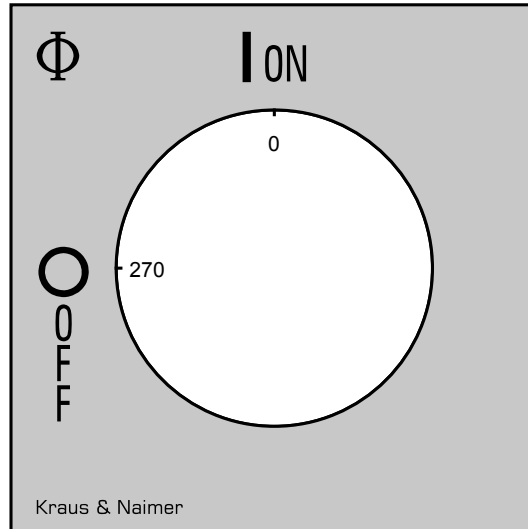
KG10.T30311.KS51V

 Kraus & Naimer

KG10		T30311VE		VE		Page 1 of 1							
<b>Face Plate</b>													
			T2		T1	T3	14	22					
			1	3	5	7	9	11	13	15	17	19	21
Marking plate: S0D H043 91E 													
Switching Angle <input type="text" value="90"/>		2	4	6	8	10	12	14	16	18	20	22	24
Total switching Angle <input type="text" value="90"/>		L2		L1	L3	13	21						
0	270						■						
	285												
	300												
	315												
	330												
	345												
1	0	■		■	■	■							
	15												
	30												
	45												
	60												
	75												
	90												
	105												
	120												
	135												
	150												
	165												
	180												
	195												
	210												
	225												
	240												
	255												
								Jumpers					
								1 ●	○3	4 ○	●2		
								5 ●	●7	8 ●	●6		
								9 ●	●11	12 ●	●10		
								13 ○	○15	16 ○	○14		
								17 ○	○19	20 ○	○18		
								21 ○	○23	24 ○	○22		
								25 ○	○27	28 ○	○26		
								29 ○	○31	32 ○	○30		
								33 ○	○35	36 ○	○34		
								37 ○	○39	40 ○	○38		
								41 ○	○43	44 ○	○42		
								45 ○	○47	48 ○	○46		
Version: 7													

**Face plate**

S1.F656/C10.V9



## HANDLES

**Designation:** S1B.G841  
**Handle colour:** "1" black

### GENERAL TECHNICAL INFORMATION

#### Recommended screw driver

Type of screw driver	Value
Cross Screwdriver	PH1
Slot screwdriver according to DIN 5264	0,8x5,5