



Sample image


## Datasheet

**Article number:** 70019087

**Designation:** KG160.T203/25.VE

**Description:** Switch Global Disconnector

IEC 60947-3 EN 60947-3, VDE 0660 Teil 107						
Rated insulation voltage Ui						
Voltage (V) AC / DC						
1000 AC						
Rated uninterrupted current Iu/Ith						
Current (A)	Ambient temperature (°C)	Peak temperature (°C)	additional requirements			
160	50	55	Ambient temperature +50°C during 24 hours with peaks up to +55°C			
Rated operational current Ie						
Utilization category		Voltage (V)		Current (A)		
AC-32A		20 - 400		160		
Rated operational power						
Utilization category	Voltage (V)	No. of phases	No. of poles	Power (kW)		
AC-3	220 - 240	3	3	30		
AC-3	380 - 440	3	3	45		
AC-3	660 - 690	3	3	37		
AC-23A	220 - 240	3	3	30		
AC-23A	380 - 440	3	3	55		
AC-23A	660 - 690	3	3	37		
Max. Fuse rating IEC						
Fuse characteristic		No. of Fuses		Current (A)		
gG		1		160		
UL60947-4-1 , UL508						
Nominal Voltage						
Voltage (V) AC / DC						
600 AC						
Rated insulation voltage Ui						
Voltage (V) AC / DC						
600 AC						
Rated thermal current						
Current (A)		Ambient temperature (°C)	Additional Text			
200		0 - 40	ON-OFF switch (Valid when connected with wire rated for 75°C)			
160		0 - 40	Change over switch (Valid when connected with wire rated for 75°C)			
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	10	40
DOL		220 - 240	1	2	25	40
DOL		277 - 277	1	2	25	40
DOL		440 - 480	1	2	40	40
DOL		550 - 600	1	2	40	40
DOL		110 - 120	3	3	20	40
DOL		220 - 240	3	3	40	40
DOL		440 - 480	3	3	75	40
DOL		440 - 480	3	3	75	60
DOL		550 - 600	3	3	60	40
SCCR / Max. fuse rating						
Conditions of acceptability						
This device is suitable for use on circuits capable of delivering not more than 10kA rms symmetrical amperes, 600V ac max. when protected by Type RK1 fuses.						
Suitable for use on a circuit capable of delivering not more than 65000 rms symmetrical amperes at 600V max., when protected by 300A Class J fuses.						
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	200	1	1	1	
AC	600	200	1	2	1	
AC	600	200	3	3	1	
AC double-throw function	277	160	1	1	1	
AC double-throw function	600	160	1	2	1	

General Use						
AC / DC	Voltage (V)	Current (A)	No. of phases	No. of poles	No. of contacts in series	
AC double-throw function	600	160	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 have been previously evaluated in combination with the manual motor controllers.						
CSA						
Nominal Voltage						
				Voltage (V)	AC / DC	
				600	AC	
Rated insulation voltage Ui						
				Voltage (V)	AC / DC	
				600	AC	
Rated thermal current						
		Current (A)	Ambient temperature (°C)		Additional Text	
		200	0 - 40		--	
Horsepower rating						
Across-the-Line Motor Starting				Voltage (V)	No. of phases	No. of poles
				110 - 120	1	2
DOL				220 - 240	1	2
DOL				277 - 277	1	2
DOL				440 - 480	1	2
DOL				550 - 600	1	2
DOL				110 - 120	3	3
DOL				220 - 240	3	3
DOL				440 - 480	3	3
DOL				550 - 600	3	3
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	200	1	1	1	
AC	600	200	1	2	1	
AC	600	200	3	3	1	
GENERAL TECHNICAL INFORMATION						
Size of conductor						
composition of conductor	Min. / Max. value	No. of conductor per terminal	Cross section (mm²) or (AWG/kcmil)		Material of the wire	
Solid wire	Min.	1	6mm²		Copper	
Flexible wire	Max.	1	70mm²		Copper	
Flexible wire	Min.	1	16mm²		Copper	
Flexible wire	Max.	1	AWG 2/0		Copper	
Single-core or stranded wire	Max.	1	95mm²		Copper	
Single-core or stranded wire	Max.	1	AWG 3/0		Copper	
Flexible wire with sleeve	Max.	1	70mm²		Copper	
Flexible wire with ferrule according to DIN 46228	Min.	1	10mm²		Copper	
Stripping length						
				Length (mm)	--	
				18		
Recommended screw driver						
Type of screw driver	Value					
Hex key	5					
Tightening torque of screws						
				tightening torque (Nm)	tightening torque (lb-in)	
				14	125	
Approbations						
Specification						
Marking						
EAC						
CE marking						
UK Directives						
CSA C.22.2 No.14						
GB/T14048.3						
General Information						
Text						
- Use only copper wires with or without tinned/silver-plated individual wires. Soldering the end of the wire before wiring is not allowed.						

## General Information

### Text

- EMC Note: This device is suitable for use in environment A and B.
- 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.
- The protection class of the selected mounting type may vary if optional extras are used.
- 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.

## Waste Electrical & Electronic Equipment (WEEE)

### Picture name

### 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](http://www.krausnaimer.com)

## Proposition 65

### Picture name

### Description



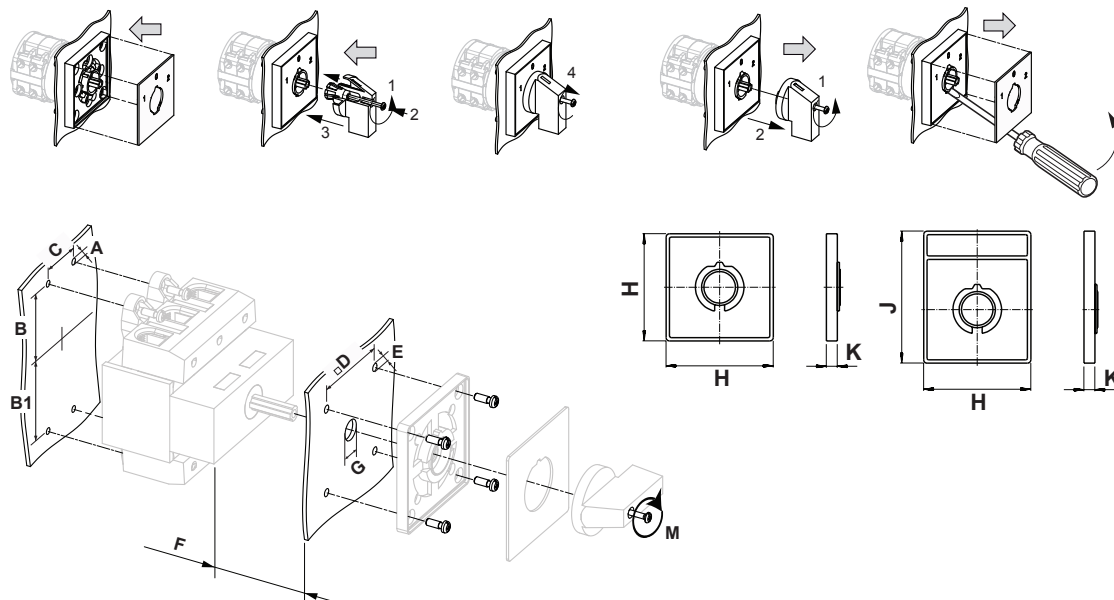
WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

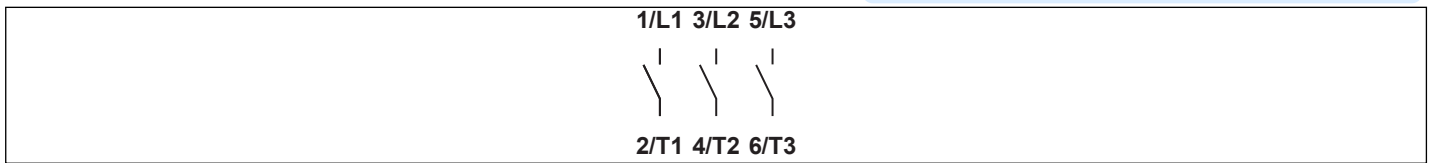
## Mounting-VE



IP - Code front side	IP40
Stages	1,00 - 5,00
A	Ø 6,40 mm
B	H 59,00 - 61,00 mm
B1	H 59,00 - 61,00 mm
C	H 36,00 mm
D	□ 68,00 mm
E	Ø 6,00 mm
F	H ≤ 16,00 mm
G	Ø 13,00 - 17,00 mm
H	H 88,00 mm
J	H 124,00 mm
K	H 8,50 mm
M	↻ 1,20 Nm

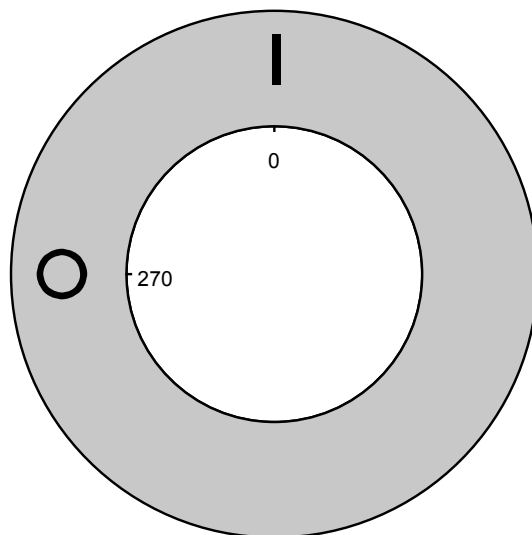
## Wiring diagram

KG160.T303.VE



## Face plate

S2.F456/C10.V11





Sample image

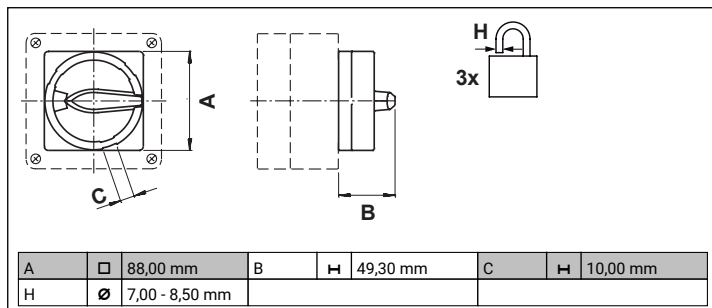
## PADLOCK DEVICE

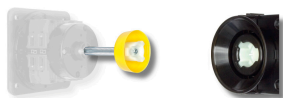
with F-handle ring for type of mounting E, EF, E22, FT, VE, GK, PN, PF, KS (S00)

Designation: S2.V840D/D6

Colour of F-handle ring: "D" red

Colour of face ring: "6" yellow





Sample image

## STANDARD DOOR CLUTCH

with shaft extension/asymmetric profile (with arresting screw)

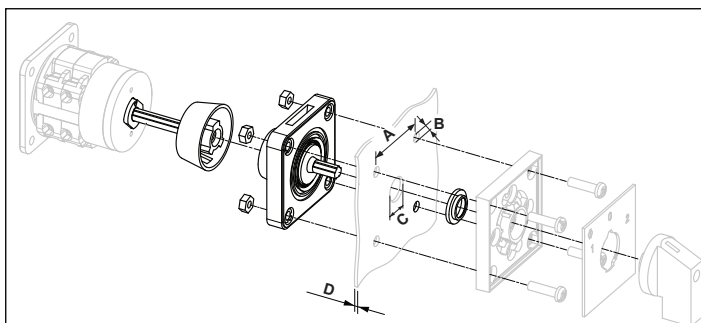
**Designation:** S2.M280E/B21S-EF

**Type of interlock:** "B2" with protected profile and interlock by door clutch

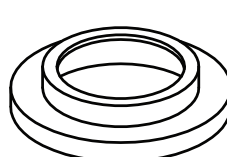
**Shaft length:** "1" 60 - 90 mm

**Application:** "S" for type of mounting VE

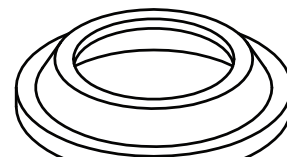
**Type of version:** "-EF" splash proof (IP66/67)



A	□	68,00 mm	B	∅	6,00 mm	C	∅	26,00 - 30,00 mm
D	H	5,50 mm						

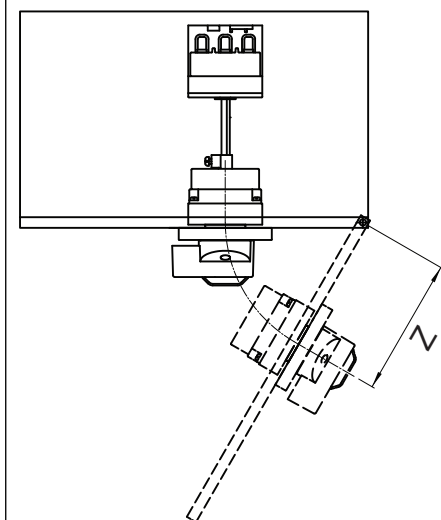


S2D V840 10

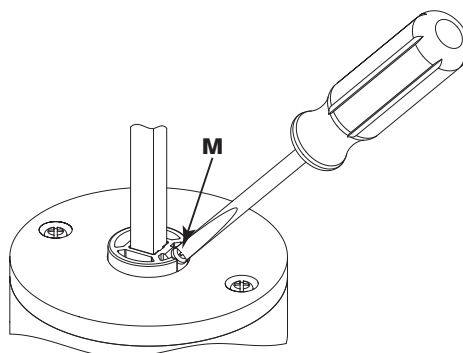


S3D V840 10

If S2 V840D or S2/S3 V845 will be applied with M280D, M280E or M280F, separately delivered parts S2D V840 10 resp. S3D V840 10 are not needed.



Z	H	>= 110,00 mm		
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M	M	0,80 Nm		
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1. Loosen the screw
2. Move shaft
3. Tighten the screw

**SHAFT EXTENSIONS**  
in special length for M004D**Designation:** S2.M099D/000B360**GENERAL TECHNICAL INFORMATION****Recommended screw driver**

Type of screw driver	Value
Cross Screwdriver	PH1





Sample image

## AUXILIARY CONTACTS

for KG125-KG317 - ON/OFF Switches


**Designation:** K3A.M510B/10A-B

**Number of NO-contacts:** "1" total number of NO/NC-contacts max. 8 contacts


**Number of NC-contacts:** "0" total number of NC/NO-contacts max. 8 contacts

**Version:** "A" Standard (silver)

**Type of mounting:** "-B" for type of mounting VE

IEC 60947-3 EN 60947-3, VDE 0660 Teil 107					
Rated insulation voltage Ui					
			Voltage (V) AC / DC		
			690 AC		
Rated uninterrupted current Iu/Ith					
Current (A)	Ambient temperature (°C)	Peak temperature (°C)	additional requirements		
16	55	60	Ambient temperature +55°C during 24 hours with peaks up to +60°C		
Rated operational current Ie					
Utilization category			Voltage (V)		Current (A)
AC-15			110 - 120		6
AC-15			220 - 240		5
AC-15			380 - 440		4
AC-15			500		1,50
AC-21A			20 - 690		16
Max. Fuse rating IEC					
Fuse characteristic			No. of Fuses		Current (A)
gG			1		16
UL60947-4-1 , UL508					
Nominal Voltage					
			Voltage (V) AC / DC		
			600 AC		
Rated insulation voltage Ui					
			Voltage (V) AC / DC		
			600 AC		
Rated thermal current					
		Current (A)	Ambient temperature (°C)	Additional Text	
		10	0 - 40	–	
Pilot duty rating code					
Duty Code					
A600					
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	600	10	1	1	1
GENERAL TECHNICAL INFORMATION					
Size of conductor					
composition of conductor	Min. / Max. value	No. of conductor per terminal	Cross section (mm²) or (AWG/kcmil)		Material of the wire
Solid wire	Min.	1	0.5mm²		Copper
Solid wire	Min.	2	0.5mm²		Copper
Flexible wire	Min.	1	0.75mm²		Copper
Flexible wire	Min.	2	0.75mm²		Copper
Flexible wire	Max.	2	2.5mm²		Copper
Flexible wire	Max.	2	AWG 14		Copper
Single-core or stranded wire	Max.	2	AWG 12		Copper
Single-core or stranded wire	Max.	2	2.5mm²		Copper
Flexible wire with ferrule according to DIN 46228	Min.	1	0.5mm²		Copper
Flexible wire with ferrule according to DIN 46228	Max.	2	2.5mm²		Copper
Flexible wire with ferrule according to DIN 46228	Min.	2	0.5mm²		Copper
Stripping length					
			Length (mm) –		
					
Recommended screw driver					
Type of screw driver			Value		
Slot screwdriver according to DIN 5264			0.8x4		



Recommended screw driver		
Type of screw driver	Value	
Cross Screwdriver	PH1	
Tightening torque of screws		
	tightening torque (Nm)	tightening torque (lb-in)
	0,60	5
Approbations		
Specification	Marking	
EAC		
General Information		
Text		
<ul style="list-style-type: none"><li>- Use only copper wires with or without tinned/silver-plated individual wires. Soldering the end of the wire before wiring is not allowed.</li><li>- 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.</li><li>- After wiring, ALL terminal screws must be tightened to the specified torque values.</li><li>- Do not lubricate or treat contacts.</li><li>- Switches may only be mounted, connected and set into operation by qualified persons according to the accepted rules of technology.</li></ul>		
