



600

160

Sample image

Datasheet

Article number: 70019588

Designation: KG160.T103/D-A066.STM

Description: Switch

		DE 0660 Teil 107	7					
Rated insulation	voltage Ui			1/ // 00 10 /5				
				Voltage (V) AC / D 1000 AC	C			
Rated uninterrup	ted current lu/lth			1000 AC				
Current (A)		ent temperature (°C)	Peak temperatu	re (°C) additional re	equirements			
160		50		. ,	•	during 24 hours w	ith peaks up to +55°C	
Rated operationa	I current le				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		promo op 10 00 0	
Utilization catego					Vo	Itage (V)		Current (A)
AC-32A	•					20 - 400		160
Rated operationa	l power							
Utilization catego	ry		Voltage (V)	٨	lo. 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								
Fuse characterist	ic					No. of Fu		Current (A
gG							1	160
UL60947-4-1	1 . UL508							
Nominal Voltage								
rtommar voltage				Voltage (V) AC / D	OC .			
				600 AC	.0			
Rated insulation	voltage Ui							
				Voltage (V) AC / D	OC .			
				600 AC				
Rated thermal cu	irrent							
		Curre	ent (A)		Ambient tempera	ture (°C) Addition	nal Text	
			200			0 - 40 ON-OFF	switch (Valid when cor	nnected with wire rated for 75°C)
						Change	over switch (Valid whe	n connected with wire rated for
			160			0 - 40 75°C)		
Horsepower ratin						N 6 1	5 (115)	4 1 1 1 1 1 100
Across-the-Line N	notor 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							60	40
				550 - 600	3	3		
SCCR / Max. fuse				550 - 600	3	3		
SCCR / Max. fuse Conditions of acc	eptability							
SCCR / Max. fuse Conditions of acc This device is sui	eptability table for use on circu		ing not more than 10kA rms	symmetrical amper	res, 600V ac max.	when protected b	y Type RK1 fuses.	
SCCR / Max. fuse Conditions of acc This device is sui Suitable for use of	reptability table for use on circu on a circuit capable o		ing not more than 10kA rms than 65000 rms symmetrica	symmetrical amper	res, 600V ac max.	when protected b	y Type RK1 fuses.	
SCCR / Max. fuse Conditions of acc This device is sui	reptability table for use on circu on a circuit capable o	f delivering not more t	than 65000 rms symmetrica	symmetrical amper	res, 600V ac max. max., when protec	when protected b	y Type RK1 fuses.	
SCCR / Max. fuse Conditions of acc This device is sui Suitable for use of	reptability table for use on circu on a circuit capable o		than 65000 rms symmetrica	symmetrical amper	res, 600V ac max. max., when protec	when protected botted by 300A Class	y Type RK1 fuses.	
SCCR / Max. fuse Conditions of acc This device is sui Suitable for use of Temp. rating of v	reptability table for use on circu on a circuit capable o	f delivering not more t	than 65000 rms symmetrica	symmetrical amper	res, 600V ac max. max., when protec	when protected b	y Type RK1 fuses.	
SCCR / Max. fuse Conditions of acc This device is sui Suitable for use of Temp. rating of v	reptability table for use on circu on a circuit capable o vire	f delivering not more t	than 65000 rms symmetrica ng (°C) 75	symmetrical ampe amperes at 600V r	res, 600V ac max. max., when protec	when protected botted by 300A Class	y Type RK1 fuses.	No of contacts in
SCCR / Max. fuse Conditions of acc This device is sui Suitable for use of Temp. rating of v	reptability table for use on circu on a circuit capable o vire Voltage (V)	f delivering not more to Temperature ratin Current (A)	than 65000 rms symmetrica ng (°C) 75 No. of phases	symmetrical amper amperes at 600V r	res, 600V ac max. max., when protec Cu	when protected botted by 300A Class	y Type RK1 fuses.	
SCCR / Max. fuse Conditions of acc This device is sui Suitable for use of Temp. rating of v General Use AC / DC AC	reptability table for use on circu on a circuit capable of vire Voltage (V) 277	Temperature ratir Current (A) 200	than 65000 rms symmetrica ng (°C) 75 No. of phases 1	symmetrical amper l amperes at 600V r No. of pole	res, 600V ac max. max., when protec Cu	when protected botted by 300A Class	y Type RK1 fuses.	
SCCR / Max. fuse Conditions of acc This device is sui Suitable for use of Temp. rating of v	reptability table for use on circulon a circuit capable of vire Voltage (V) 277 600	Temperature ratin Current (A) 200 200	than 65000 rms symmetrica ng (°C) 75 No. of phases 1	symmetrical amper l amperes at 600V r No. of pole	res, 600V ac max. max., when protec Cu	when protected botted by 300A Class	y Type RK1 fuses.	1
SCCR / Max. fuse Conditions of acc This device is sui Suitable for use of Temp. rating of v	reptability table for use on circu on a circuit capable of vire Voltage (V) 277	Temperature ratir Current (A) 200	than 65000 rms symmetrica ng (°C) 75 No. of phases 1	symmetrical amper l amperes at 600V r No. of pole	res, 600V ac max. max., when protec Cu	when protected botted by 300A Class	y Type RK1 fuses.	1
SCCR / Max. fuse Conditions of acc This device is sui Suitable for use of Temp. rating of v General Use AC / DC AC AC AC AC double-	reptability table for use on circulon a circuit capable of vire Voltage (V) 277 600	Temperature ratin Current (A) 200 200	than 65000 rms symmetrica ng (°C) 75 No. of phases 1	symmetrical amper l amperes at 600V r No. of pole	res, 600V ac max. max., when protec Cu	when protected botted by 300A Class	y Type RK1 fuses.	
SCCR / Max. fuse Conditions of acc This device is sui Suitable for use of Temp. rating of v General Use AC / DC AC AC AC	reptability table for use on circulon a circuit capable of vire Voltage (V) 277 600	Temperature ratin Current (A) 200 200	than 65000 rms symmetrica ng (°C) 75 No. of phases 1	symmetrical amper l amperes at 600V r No. of pole	res, 600V ac max. max., when protec Cu	when protected botted by 300A Class	y Type RK1 fuses.	
SCCR / Max. fuse Conditions of acc This device is sui Suitable for use of Temp. rating of v General Use AC / DC AC AC AC AC AC AC AC double- throw	reptability table for use on circu on a circuit capable of vire Voltage (V) 277 600 600	Temperature ratin Current (A) 200 200 200	than 65000 rms symmetrica ng (*C) 75 No. of phases 1 1 3	symmetrical amper l amperes at 600V r No. of pole	res, 600V ac max. max., when protec Cu	when protected botted by 300A Class	y Type RK1 fuses.	No. of contacts in series 1 1 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 handl	le and position in	dicating means	to be used with these manual	motor controllers shoul	d be provided from	the manufactu	rer, or the operatin	g handle and position indication	ng means
to be used should ha	ave been previous	sly evaluated in	combination with the manual	motor controllers.				· · · · · · · · · · · · · · · · · · ·	
CSA									
Nominal Voltage									
_				Voltage (V) AC / Do	;				
				600 AC					
Rated insulation volta	age Ui								
				Voltage (V) AC / Do)				
Rated thermal curren				600 AC					
Rateu tilerinai curren	11.		Current (A)		Ambient temperatur	re (°C) Addition	nal Tevt		
			200			0 - 40	ndi Text		
Horsepower rating									
Across-the-Line Motor	r Starting			Voltage (V)	No. of phases N	lo. of poles	Power (HP)	Ambient temper	ature [°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 - 600 110 120	1	2	40		40
DOL				110 - 120 220 - 240	3	3	20 40		40 40
DOL				440 - 480	3	3	75		40
DOL				550 - 600	3	3	60		40
Temp. rating of wire				000 000					
		Temperatur	e rating (°C)		Curre	nt (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
AC AC	600 600	200 200	1 3	2					1
			<u> </u>	·	'				- '
GENERAL TECH	INICAL INFO	RMATION							
Size of conductor						Cross section	(mama 2) a s		
composition of condu	ıctor		Min. / Max. value	No. of con	ductor per terminal	(AWG/kcmil)	(111111-) 01	Material of the wire	
solid wire			Min.		1	6mm²		Copper	
flexible wire			Max.			70mm²		Copper	
flexible wire			Min.			16mm²		Copper	
flexible wire			Max.			AWG 2/0		Copper	
Single-core or strande Single-core or strande			Max.			95mm² AWG 3/0		Copper	
flexible wire with slee			Max.			70mm ²		Copper Copper	
flexible wire with ferru		IN 46228	Min.			10mm²		Copper	
Stripping length	are according to 1	10220						оорро:	
5 5				Length (mm)					
				18L	-				
Recommended screw	v driver								
Type of screw driver				Value					
Hex key				5					
Tightening torque of	screws			i () 1					(!
			tighten	ing torque (Nm) 14				tightening tord	jue (lb-in) 125
Approbations				14					123
Specification									Marking
,									
l									EAC
EAC									LIIL
									-
•									ϵ
CE marking									
CE marking									UK
									СН
CE marking UK Directives									
									_
UK Directives									(1) ®
									(1) ®
UK Directives CSA C.22.2 No.14									(1) ®
UK Directives CSA C.22.2 No.14 GB/T14048.3									_
UK Directives CSA C.22.2 No.14									(1) ®



General Information

Text

- 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.

Waste Electrical & Electronic Equipment (WEEE)

Picture name

Description

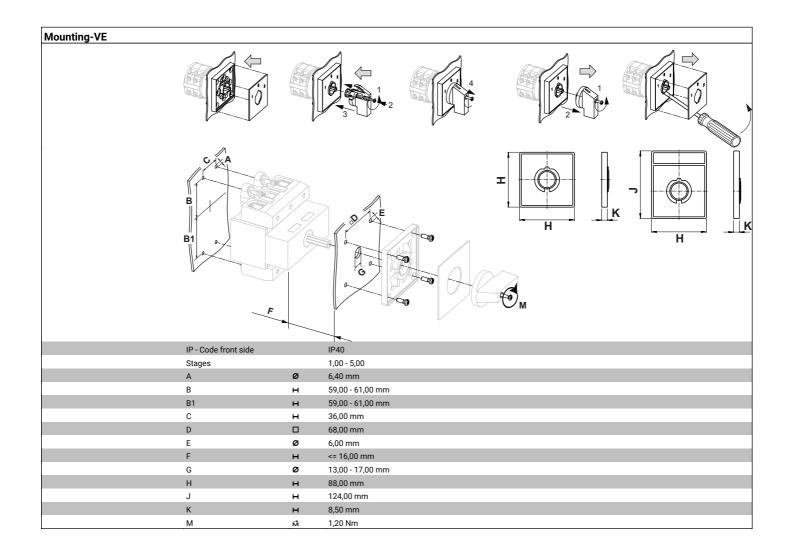
Do not throw in the trash as care must be taken to ensure environmentally sound disposal and recycling. Please either use an environmentally friendly waste disposal company; return to the supplier for disposal; or return direct to the manufacturer, Kraus & Naimer. You can find local Kraus & Naimer offices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

Proposition 65

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.

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver Classification Terminal: Screw terminal





Wiring diagram KG160.T303.VE

1/L1 3/L2 5/L3 2/T1 4/T2 6/T3

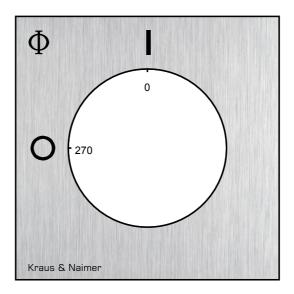


Switch program KG160.T303.VE

Traus & Naimer										
_	P Kraus & I	KG1	60	T303			Page	1 of 1		
	Face Plate									
	1		1/L1 1	3/L2 3	5/L3 5	7	9	11	13	15
	i									
	0 (270 90 -)		, 1	χ1	χ1					
	180		\		\					
			•	•	•					
	ching Angle 90		2	4	6	8	10	12	14	16
Tota	al switching Angle 90	270	2/T1	4/T2	6/T3					
	J									
	1	0								
		90								
		180								
									Ver	sion: 84



Face plate S1.F456/A10.M1H





PADLOCK DEVICE

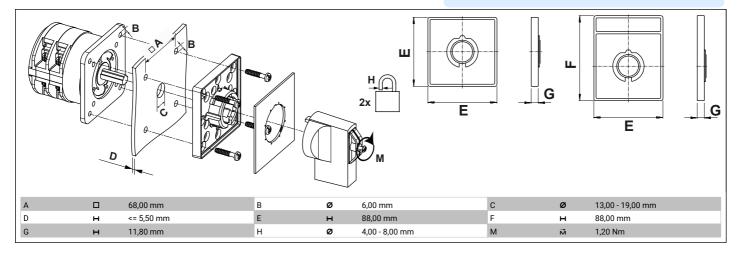
Designation: S2.V845/A11/B12

Face plate and handle unit: "A" face plate/alu, frame/black, handle/black, locking push rod/red Locking position: "1" at 270°+90° - knockouts

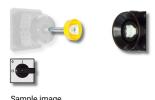
every 45°

Angular displacement: "1" 1 x 90°

Type of mounting: "B" for type of mounting VE Type of version: "1" for same switch size Switch type: "2" for KA-, KG- and KH(R)-switches







STANDARD DOOR CLUTCH

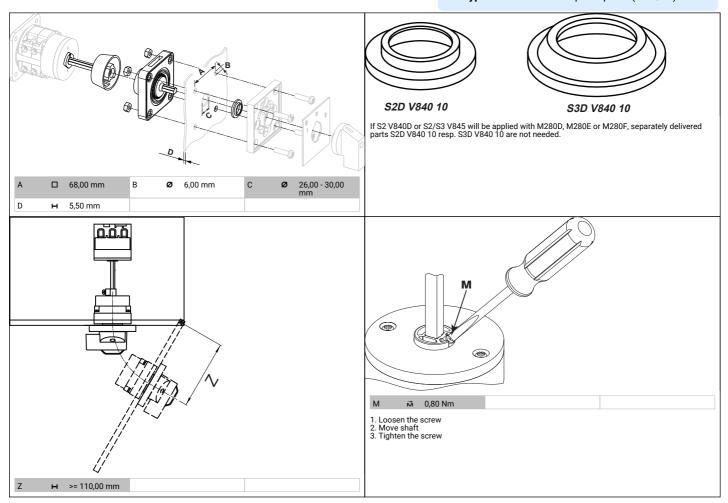
with shaft extension/asymmetric profile (with arresting screw)

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)







Sample image

AUXILIARY CONTACTS

for KG125-KG317 - ON/OFF Switches

Designation: K3A.M510B/11A-B

Number of NO-contacts: "1" total number of

NO/NC-contacts max. 8 contacts

Number of NC-contacts: "1" total number of

NC/NO-contacts max. 8 contacts **Version:** "A" Standard (silver)

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

Rated insulation voltage Ui						
				Voltage (V) AC / DC		
				690 AC		
Rated uninterrupted current I						
Current (A)	Ambient temperatur	re (°C)	Peak temperatur	e (°C) additional requirements		
16		55		60 Ambient temperature +55°C du	ring 24 hours with peaks up to	o +60°C
Rated operational current le						
Utilization category					ge (V)	Current
AC-15					0 - 120	
AC-15					0 - 240	
AC-15				380	0 - 440	
AC-15					500	•
AC-21A				20) - 690	
Max. Fuse rating IEC				,		
Fuse characteristic					No. of Fuses	Current
gG					1	
UL60947-4-1, UL508						
Nominal Voltage						
•				Voltage (V) AC / DC		
				600 AC		
Rated insulation voltage Ui						
<u> </u>				Voltage (V) AC / DC		
				600 AC		
Rated thermal current						
		Current (A)		Ambient temperatu	re (°C) Additional Text	
		10			0-40	
Pilot duty rating code						
Duty Code						
A600						
Temp. rating of wire						
	Temperat	ure rating (°C)		Curre	ent (A) Text	
		75			<u> </u>	
General Use						
AC / DC Voltag	e (V) Current (A)	No. of phases	No. of poles		No. of contacts in se
AC	600 10)	1	1		
GENERAL TECHNICAL	INFORMATION		,			
Size of conductor	INFORMATION					
Size of conductor					Cross section (mm²) or	
composition of conductor		Min. / Max.	value	No. of conductor per terminal	(AWG/kcmil)	Material of the wire
solid wire		Min.			0.5mm²	Copper
solid wire		Min.			0.5mm²	Copper
flexible wire		Min.			0.75mm²	Copper
flexible wire		Min.			0.75mm²	Copper
flexible wire		Max.			2.5mm²	Copper
flexible wire		Max.			AWG 14	Copper
Single-core or stranded wire		Max.			AWG 14	Copper
Single-core or stranded wire		Max.			2.5mm²	Copper
origic core or stranucu wile	ding to DIN 46228	Max.			2.5mm²	Copper
flevible wire with ferrule accou		Min.			0.5mm ²	
		Min.			0.5mm²	Copper Copper
flexible wire with ferrule accor		iVIIII.			U.UIIIII	Coppei
flexible wire with ferrule accor flexible wire with ferrule accor	g					
flexible wire with ferrule accor flexible wire with ferrule accor	g		- 1.	anath (mm)		
flexible wire with ferrule accor flexible wire with ferrule accor			Le	ength (mm)		
flexible wire with ferrule accordiflexible wire with ferrule according to the with			Le			
flexible wire with ferrule accor flexible wire with ferrule accor			Le	ength (mm)		
flexible wire with ferrule accor flexible wire with ferrule accor			Le			



Recommended screw driver	
Type of screw driver	Value
Cross Screwdriver	PH1
Tightening torque of screws	
tightening torque (Nm	tightening torque (lb-in)
0,6	5
Approbations	
Specification	Marking
	rnr
EAC	EAC
General Information	bilb.
Text	
- 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.	
13 21	
h 1 4	
14 22	