



Sample image

Datasheet

Article number: 70019588

Designation: KG160.T103/D-A066.STM

Description: Switch

IEC 60947-3 EN 60947-3, VDE 0660 Teil 107

Tension assignée d'isolement Ui

Tension (V) AC / DC

1000 AC

Courant ininterrompu et thermique conventionnel Iu/Ith

Intensité (A) Température Ambiante (°) Température Maxi (°) Spécification complémentaire

160 50 55 Température ambiante +50°C durant 24 heures avec point à +55°C

Courant assigné d'emploi Ie

Catégorie d'emploi

Tension (V)

Intensité (A)

AC-32A 20 - 400 160

Puissance assignée d'emploi

Catégorie d'emploi

Tension (V)

Nb de phases

Nb de pôles

Puissance (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

Protection par fusible (IEC)

Caractéri

Nombre de fusible

Intensité (A)

gG 1 160

UL60947-4-1, UL508

Nominal Voltage

Tension (V) AC / DC

600 AC

Tension assignée d'isolement Ui

Tension (V) AC / DC

600 AC

Rated thermal current

Intensité (A)

Température Ambiante (°) Additional Text

200

0 - 40 ON-OFF switch (Valid when connected with wire rated for 75°C)

160

Change over switch (Valid when connected with wire rated for 0 - 40 75°C)

Horsepower rating

Across-the-Line Motor Starting

Tension (V)

Nb de phases

Nb de pôles

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)

Intensité (A) Text

75

--

General Use

AC / DC

Tension (V)

Intensité (A)

Nb de phases

Nb de pôles

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

AC double-throw function 600 160 1 2 1

AC double-throw function 600 160 1 2 1

AC double-throw function 600 160 1 2 1

AC double-throw function 600 160 1 2 1

AC double-throw function 600 160 1 2 1

AC double-throw function 600 160 1 2 1

AC double-throw function 600 160 1 2 1

AC double-throw function 600 160 1 2 1

AC double-throw function 600 160 1 2 1

AC double-throw function 600 160 1 2 1

AC double-throw function 600 160 1 2 1

AC double-throw function 600 160 1 2 1

AC double-throw function 600 160 1 2 1

AC double-throw function 600 160 1 2 1

AC double-throw function 600 160 1 2 1

AC double-throw function 600 160 1 2 1

General Use						
AC / DC	Tension (V)	Intensité (A)	Nb de phases	Nb de pôles	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 should have been previously evaluated in combination with the manual motor controllers.						
CSA						
Nominal Voltage						
			Tension (V) AC / DC			
			600 AC			
Tension assignée d'isolement Ui						
			Tension (V) AC / DC			
			600 AC			
Rated thermal current						
		Intensité (A)	Température Ambiante (°)		Additional Text	
		200	0 - 40		--	
Horsepower rating						
Across-the-Line Motor Starting			Tension (V)	Nb de phases	Nb de pôles	Power (HP)
DOL			110 - 120	1	2	10
DOL			220 - 240	1	2	25
DOL			277 - 277	1	2	25
DOL			440 - 480	1	2	40
DOL			550 - 600	1	2	40
DOL			110 - 120	3	3	20
DOL			220 - 240	3	3	40
DOL			440 - 480	3	3	75
DOL			550 - 600	3	3	60
Temp. rating of wire						
			Temperature rating (°C)		Intensité (A) Text	
			75		-- --	
General Use						
AC / DC	Tension (V)	Intensité (A)	Nb de phases	Nb de pôles	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)	
solid wire		Min.	1		6mm²	
flexible wire		Max.	1		70mm²	
flexible wire		Min.	1		16mm²	
flexible wire		Max.	1		AWG 2/0	
Single-core or stranded wire		Max.	1		95mm²	
Single-core or stranded wire		Max.	1		AWG 3/0	
flexible wire with sleeve		Max.	1		70mm²	
flexible wire with ferrule according to DIN 46228		Min.	1		10mm²	
Stripping length						
			Length (mm) --			
						
Recommandations concernant le tournevis						
Type			Value			
Clé Allen			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						
- EMC Note: This device is suitable for use in environment A and B.						

General Information

Text

- Ne jamais lubrifier ou traiter les contacts.
- Les commutateurs ne peuvent être montés, branchés et mis en service que par une personne qualifiée selon les règles techniques en vigueur.
- Use copper wire only. Do not coat the wire end with tin.
- Les bornes qui ne sont pas supposées être utilisées pour le raccordement de l'appareil sont livrées serrées et ne doivent pas être desserrées. Si toutefois ces bornes sont malgré tout ouvertes accidentellement, vérifier qu'aucun shunt n'est manquant. Le câblage terminé, s'assurer que toutes les bornes sont serrées.

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

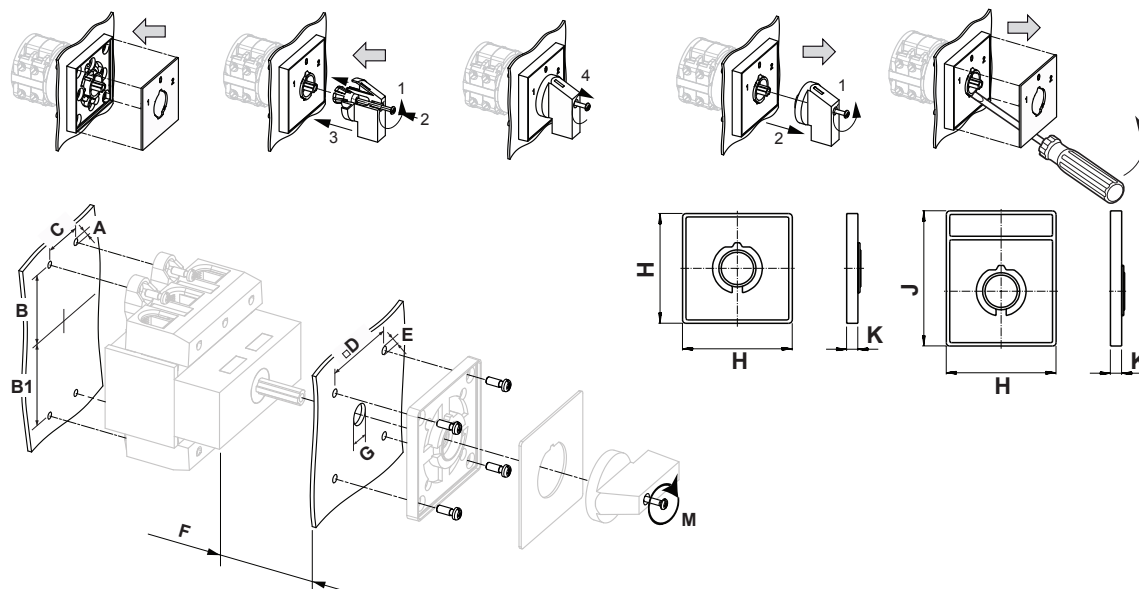
Picture name	Description
	WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov .

Type de contacts: Rigid contact bridge

Revêtement des Contacts: Silver

Types de raccordement: Screw terminal

Fixation-VE

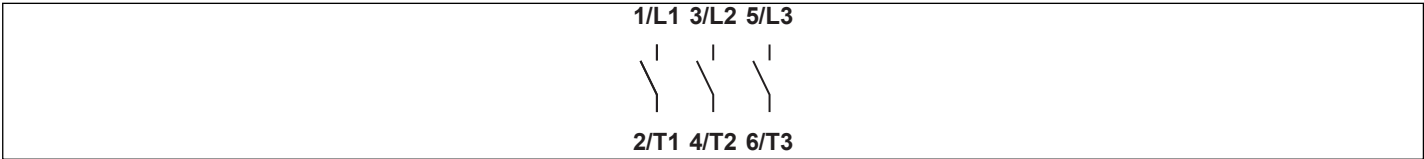


IP - Code front side	IP40
Stages	1,00 - 5,00
A	Ø 6,40 mm
B	H 59,00 - 61,00 mm
B1	H 59,00 - 61,00 mm
C	H 36,00 mm
D	□ 68,00 mm
E	Ø 6,00 mm
F	H ≤ 16,00 mm
G	Ø 13,00 - 17,00 mm
H	H 88,00 mm
J	H 124,00 mm
K	H 8,50 mm
M	M̄ 1,20 Nm



Wiring diagram

KG160.T303.VE



Switch program

KG160.T303.VE



Kraus & Naimer

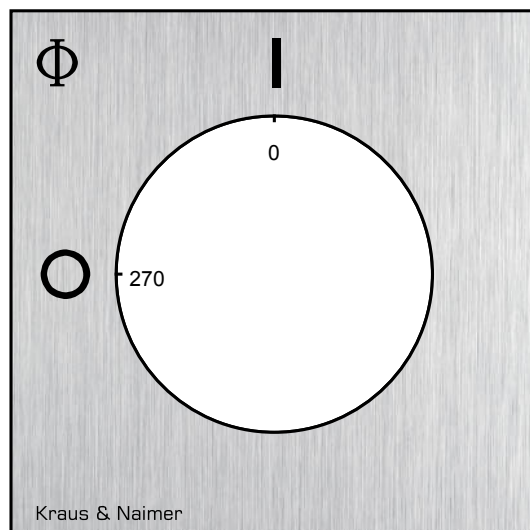
KG160
T303
Page 1 of 1

Face Plate									
	1/L1	3/L2	5/L3						
	1	3	5	7	9	11	13	15	
									
Switching Angle	90	2	4	6	8	10	12	14	16
Total switching Angle	90	2/T1	4/T2	6/T3					
0	270								
1	0								
	90								
	180								

Version: 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

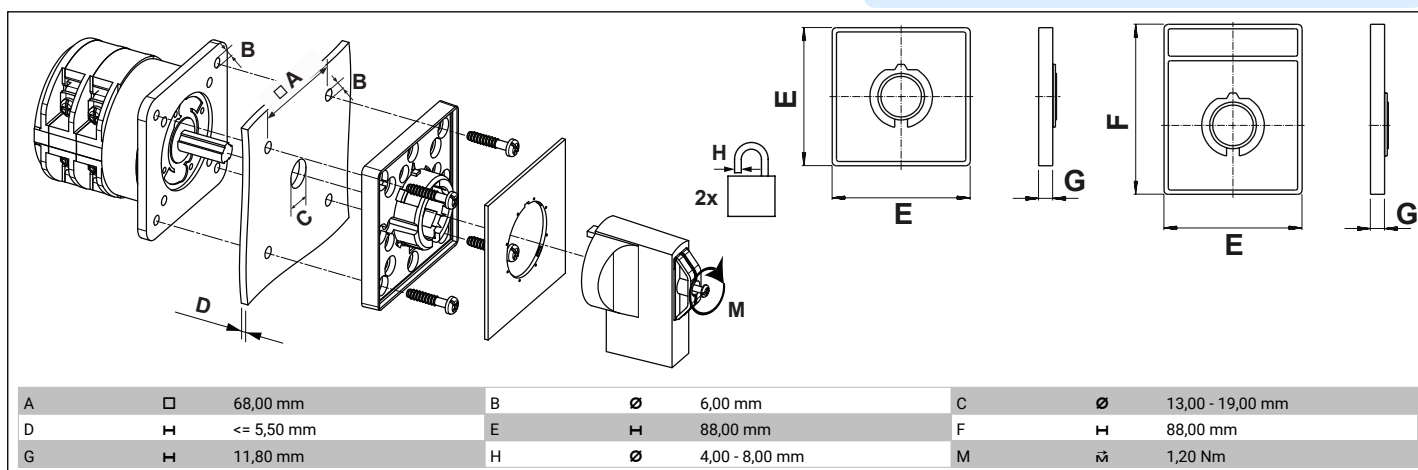
Locking position: "1" at 270°+90° - knockouts every 45°

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





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

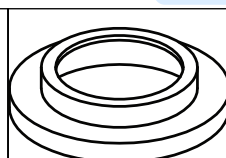
Shaft length: "1" 60 - 90 mm

Application: "S" for type of mounting VE

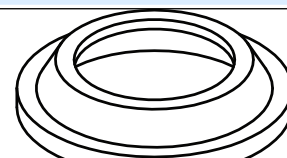
Type of version: "-EF" splash proof (IP66/67)



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		
---	----------------	--	--



M $\vec{M}$ 0,80 Nm

1. Loosen the screw
2. Move shaft
3. Tighten the screw



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

IEC 60947-3 EN 60947-3, VDE 0660 Teil 107

Tension assignée d'isolement Ui

Tension (V) AC / DC
690 AC

Courant ininterrompu et thermique conventionnel Iu/Ith

Intensité (A) Température Ambiante (°) Température Maxi (°) Spécification complémentaire
16 55 60 Température ambiante +55°C durant 24 heures avec point à +60°C

Courant assigné d'emploi Ie

Catégorie d'emploi	Tension (V)	Intensité (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

Protection par fusible (IEC)

Caractéristique	Nombre de fusible	Intensité (A)
gG	1	16

UL60947-4-1, UL508

Nominal Voltage

Tension (V) AC / DC
600 AC

Tension assignée d'isolement Ui

Tension (V) AC / DC
600 AC

Rated thermal current

Intensité (A) Température Ambiante (°) Additional Text
10 0 - 40 -

Pilot duty rating code

Duty Code
A600

Temp. rating of wire

Temperature rating (°C) Intensité (A) Text
75 --

General Use

AC / DC	Tension (V)	Intensité (A)	Nb de phases	Nb de pôles	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	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	Min.	2	0,5mm²	Copper

Stripping length

Length (mm) --



Recommandations concernant le tournevis

Type	Value
Slot screwdriver according to DIN 5264	0,8x4

Recommandations concernant le tournevis		
Type	Value	
Tournevis cruciforme	PH1	
Tightening torque of screws		
	tightening torque (Nm)	tightening torque (lb-in)
	0,60	5
Approbations		
Specification	Marking	
EAC		
General Information		
Text		
- Ne jamais lubrifier ou traiter les contacts. - Les commutateurs ne peuvent être montés, branchés et mis en service que par une personne qualifiée selon les règles techniques en vigueur. - Use copper wire only. Do not coat the wire end with tin.		
1321  1422		