Kraus & Naimer

Sample image

Datasheet

Article number: 70022094
Designation: KG100.T103/D-A068.KL71V
Description: Switch

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
100	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	100

Rated operational power

Utilization category	Voltage (V)	No. of phases	No. of poles	Power (kW)
AC-3	220 - 240	3	3	18,50
AC-3	380 - 440	3	3	30
AC-3	660 - 690	3	3	22
AC-23A	220 - 240	3	3	22
AC-23A	380 - 440	3	3	37
AC-23A	660 - 690	3	3	30

Max Fuse Rating IEC

Fuse characteristic	No. of Fuses	Current (A)
gG	1	100

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
100	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	5	40
DOL	220 - 240	1	2	15	40
DOL	277 - 277	1	2	15	40
DOL	415 - 415	1	2	25	40
DOL	440 - 480	1	2	30	40
DOL	550 - 600	1	2	30	40
DOL	110 - 120	3	3	10	40
DOL	220 - 240	3	3	25	40
DOL	415 - 415	3	3	40	40
DOL	440 - 480	3	3	50	40
DOL	550 - 600	3	3	50	40

SCCR / Max. fuse rating

Conditions of acceptability

These devices are suitable for use on circuits capable of delivering not more than 10kA rms symmetrical amperes, 600V ac max. when protected by Type RK1 fuses or Circuit Breaker Type SFHA36AT0250, manufactured by General Electric.

Suitable for use on a circuit capable of delivering not more than 65000 rms symmetrical amperes 600V max., when protected by Class J fuses, 100A max.

Temp. rating of wire

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

Connecting instructions

Markings

Break all lines.

General Use

AC / DC	Voltage (V)	Current (A)	No. of phases	No. of poles	No. of contacts in series
AC	277	100	1	1	1
AC	600	100	1	2	1
AC	600	100	3	3	1

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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 disconnector the device shall be provided with a method of being locked in the OFF-position.

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*
100	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	5	40
DOL	220 - 240	1	2	15	40
DOL	277 - 277	1	2	15	40
DOL	415 - 415	1	2	25	40
DOL	440 - 480	1	2	30	40
DOL	550 - 600	1	2	30	40
DOL	110 - 120	3	3	10	40
DOL	220 - 240	3	3	25	40
DOL	415 - 415	3	3	40	40
DOL	440 - 480	3	3	50	40
DOL	550 - 600	3	3	50	40

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	100	1	1	1
AC	600	100	1	2	1
AC	600	100	3	3	1

GENERAL TECHNICAL INFORMATION

Tightening torque of screws

tightening torque (Nm)	*tightening torque (lb-in)*
3	27

Stripping length

Length (mm)	*--*
14	STRIPPINGLENGTH

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	2.5mm²	Copper
flexible wire	Min.	1	4mm²	Copper
flexible wire	Max.	1	35mm²	Copper
flexible wire	Max.	1	AWG 2	Copper
Single-core or stranded wire	Max.	1	AWG 1/0	Copper
Single-core or stranded wire	Max.	1	50mm²	Copper
flexible wire with sleeve	Max.	1	35mm²	Copper
flexible wire with ferrule according to DIN 46228	Min.	1	2.5mm²	Copper

Approbations

Specification	*Marking*
EAC	
CE marking	
UK Directives	
CSA C.22.2 No.14	
GB/T14048.3	

Recommended screw driver

Type of screw driver	*Value*
Cross Screwdriver	PH2
Slot screwdriver according to DIN 5264	1,2x6,5

General Information

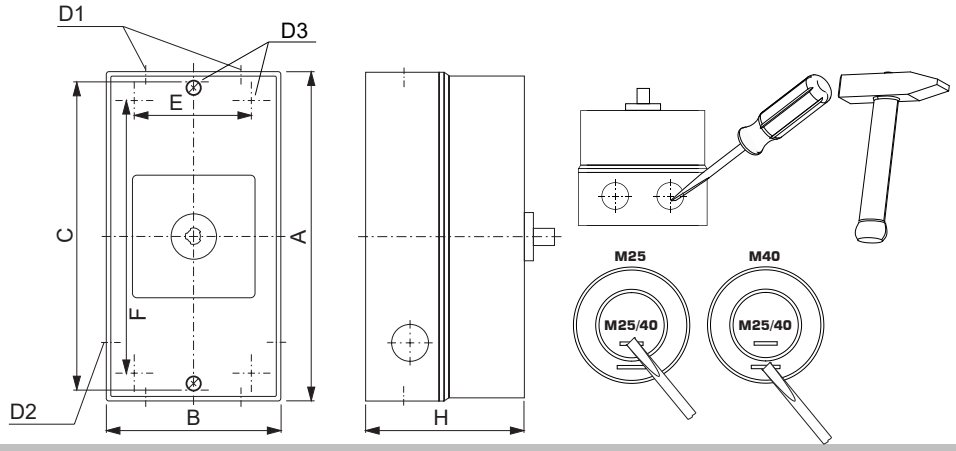
Text

- 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.

General Information	
Text	
- 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	
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.

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

Mounting-KL71V



IP - Code front side		IP66, IP67, IP69k
Stages		2,00 - 5,00
A	⊢	250,00 mm
B	⊢	145,00 mm
D1	Ø	4,00 x M40/M25
D2	Ø	2,00 x M25
D3	Ø	6,50 mm
E	⊢	124,00 mm
F	⊢	229,00 mm
H	⊢	107,00 mm

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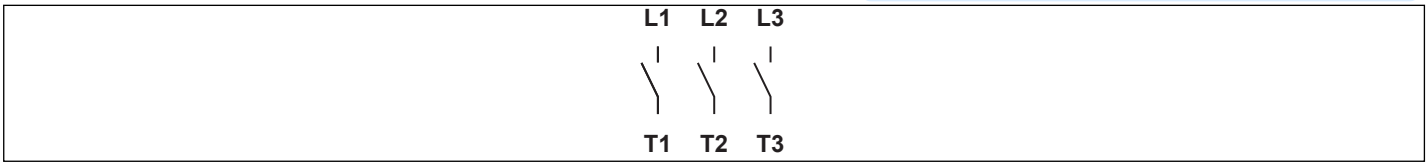
Wiring diagram

KG100.T303.KL71V



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Switch program

KG100.T303.KL71V

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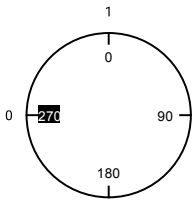
Face Plate



Switching Angle 90
Total switching Angle 90

		L1	L2	L3					
		1	3	5	7	9	11	13	15
		2	4	6	8	10	12	14	16
		T1	T2	T3					
	0	270							
	1	0	■	■	■				
		90							
		180							

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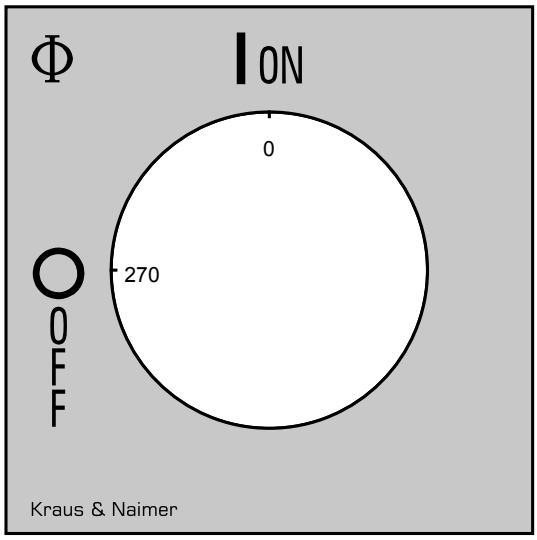
Face plate

S1.F656/C10.V9



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AUXILIARY CONTACTS (cam operated) for switch type KG20 - KG100C and KH(R)16 - KH(R)25B

Designation: K2.M510A/2CA-B
Number of contacts: "2" 2 auxiliary contacts
Operation of contacts: "C" 1 auxiliary contact closed in pos. 1 and 1 auxiliary contact closed in pos. 0 (NO/NC)
Type of version: "A" 1. auxiliary contact module
Type of mounting: "-B" for type of mounting VE, VE2, silver contacts

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

Nominal Voltage

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 - 240	6
AC-15	380 - 440	3
AC-15	500	1,50
AC-21A	20 - 690	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

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

Tightening torque of screws

tightening torque (Nm)	*tightening torque (lb-in)*
0,60	5

Stripping length

Length (mm)	--
8	STRIPPINGLENGTH

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

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Size of conductor				
composition of conductor	*Min. / Max. value*	*No. of conductor per terminal*	*Cross section (mm²) or (AWG/kcmil)*	*Material of the wire*
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

Recommended screw driver	
Type of screw driver	*Value*
Cross Screwdriver	PH1
Slot screwdriver according to DIN 5264	0,8x4

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.