Kraus & Naimer

Sample image

Datasheet

Article number: 70019053
Designation: KG100.T103/33.KL71V
Description: Schalter globaler Trenner
Contact development: T303
Face plate engraving: F656
Type of mounting: KL71V

Type Size: S1
Classification Contact: Rigid contact bridge
Classification Contact Mat: Silver
Classification Terminal: Screw terminal

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

Rated insulation voltage Ui

Voltage (V)	*AC / DC*
690	AC

Rated impulse withstand voltage Uimp

Voltage (kV)	*Overvoltage category*	*Pollution degree*	*Supply system*	*Function*
6	III	3	Valid for lines with grounded common neutral termination	switch

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

Conventional enclosed thermal current Ithe

Current (A)	*Ambient temperature (°C)*	*Peak temperature (°C)*	*Additional requirements*	*No. of stages (from - to)*	*Mounting*	*Mounting size*
100	35	40	Ambient temperature +35°C during 24 hours with peaks up to +40°C	--	--	--

Rated operational current Ie

Utilization category	*Voltage (V)*	*Current (A)*
AC-32A	20 - 400	100
AC-20A	690	100
AC-21A	20 - 690	100
AC-22A	220 - 500	100
AC-22A	660 - 690	85

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	500 - 500	3	3	37
AC-3	660 - 690	3	3	22
AC-23A	220 - 240	3	3	22
AC-23A	380 - 440	3	3	37
AC-23A	500 - 500	3	3	45
AC-23A	660 - 690	3	3	30

Max Fuse Rating IEC

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

Rated conditional short-circuit current

Current (kA)	*Text*	*cut-off current Ic (kA)*	*Durchlassenergie I²t (kA²s)*
15	--	7,60	60,99

Rated breaking capacity

Voltage (V)	*Current (A)*	*Utilization category / UL (DOL)*
220 - 240	700	--
380 - 440	650	--
660 - 690	280	--

Rated short-circuit making capacity Icm

Current (A)
6000

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

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

Suitable as Motor disconnect

Yes/No

Y

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

Temp. rating of wire

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

General Use

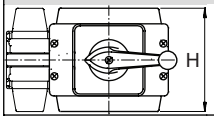
AC / DC	Voltage (V)	Current (A)	No. of phases	No. of poles	No. of contacts in series
AC	277	100	1	1	1
AC	600	100	1	2	1
AC	600	100	3	3	1

MASTER DATA

Max. number of stages

number of stages	Modul
8	KO

Switch Measures

Picture name	B	F	H	H1	H2	H3
	--	--	80	--	--	--

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GENERAL TECHNICAL INFORMATION

Tightening torque of screws

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

Stripping length

Length (mm)	--
14	STRIPPINGLENGTH

Minimal ratings (voltage/current)

Voltage (V)	Current (mA)	Environment conditions	Environment conditions 2	Environment conditions 3
20	5	Ambient air must be free of particular contamination with sulfur and/or sulfurous components such as H2S etc.	In case extraordinary contamination with dust is expected an adequate dust protection is required.	--

Rated short-time withstand current Icw

Time (s)	Current (A)
1	1850

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	
IEC 60947-3; EN 60947-3; VDE 0660 Teil107	IEC 60947-3 EN 60947-3
IEC 60947-6-1	IEC 60947-6-1 EN 60947-6-1
UL 60947-4-1; CSA C22.2 No. 60947-4-1	
CSA C.22.2 No.14	
GB/T14048.3	
Russian Maritme Register of Shipping	

Power loss per pole

Power (W)
2,40

Mechanical life

No. of operations	Ambient temperature (°C)	Number of stages	Limitations
100000	-5 - 55	--	Valid for manual operation. Valid for switches without optional extras. The value refers to the mechanics of the device, for lifetime of the electrical contacts please refer to "electrical life values".

Electrical life (B10-Value)

Utilization category	cos(φ)	Time constant (ms)	Voltage (V)	Current (A)	No. of operations	number of series contacts	AC/DC	No. of phases	No. of poles
AC-23	--	--	500	66	100000	1	AC	3	3

Recommended screw driver

Type of screw driver	Value
Cross Screwdriver	PH2
Flat blade	1,2x1,8

Degree of protection

IP - Code switch terminal
IP10

Conditions during transport and storing

Minimum temperature (°C)	Maximum temperature (°C)	additional requirements
-40	85	In case of temperatures below -5°C no shock load permissible

Shock / Vibration

Type of oscillation	Values
Resistance to vibration	Min. 4g, 2-100Hz, 1,6mm

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Shock / Vibration

Type of oscillation	*Values*
Resistance to shock	min. 6g, 6ms

General Information

Text

- EMC Note: This device is suitable for use in environment A and B.
- 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.

Creepage distance

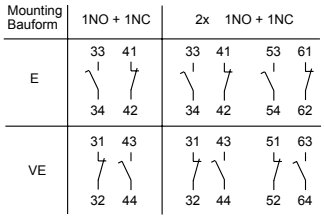
Distance (mm)
14

Clearance

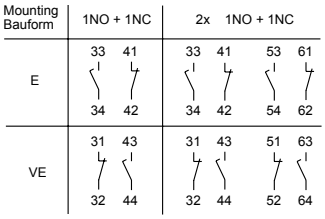
Distance (mm)
12,70

Further Pictures

Picture Purpose	*Picture Name*
AUX.CONT.	H010/A, H010/C



H010/B



Technical Data according to UL Specifications		Auxiliary Contacts KG20 - KG64B	Auxiliary Contacts KG80 - KG105C
Rated Voltage	V A . C.	600	600
Ampere Rating	A	10	10
Type of wire	-	Use 60/75°C copper wire only	Use 75°C copper wire only
Temperature rating of wire	°C	60/75	75
Torque value for field wiring terminals	lb-in.	-	-
	Nm	-	-

Operating temperature

Min. Temperature [°C]	*Max. Temperature [°C]*
-5	55

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.

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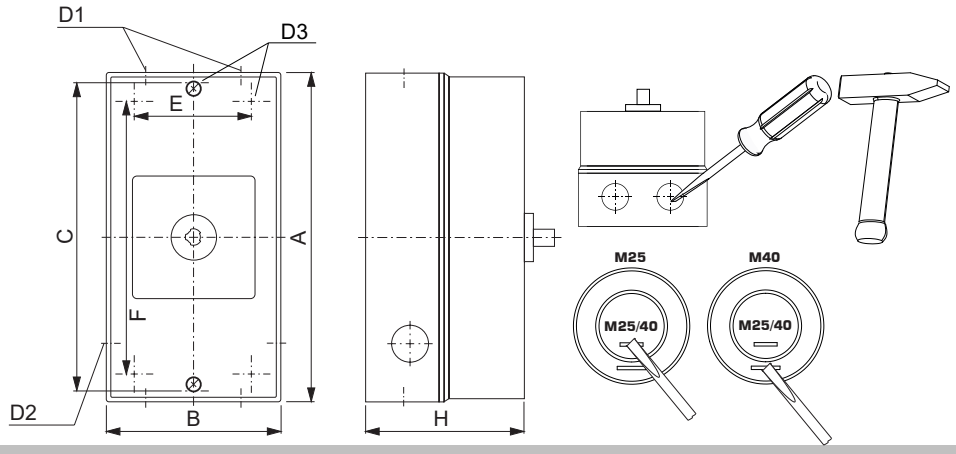
Mounting-KL71V



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

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Wiring diagram

KG100.T303.KL71V

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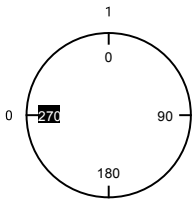
KG100	T303	Page 1 of 1

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								

Version: 102

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Face plate

S1.F656/C10.V9