



## **KG64**

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

Contact development: T304

Type of mounting: VE

Reference number: KG64 T104/NL-EXBA KNBOX (70023933)

	3, VDE 0660 Teil 107				
Rated insulation voltage Ui					
		J ( )	C/DC		
		690 A	С		
Rated uninterrupted current lu/lth  Current (A) Am		eak temperature (°C) additio	nal requirements		
63	50	, , ,	narrequirements nt temperature +50°C during 24 h	ours with pooks up to ±55°C	
Rated operational current le	30	33 Allibiei	it temperature +50 C during 2411	ours with peaks up to +55 C	
Utilization category			Voltage (V)		Current (A)
AC-32A			20 - 400		63
Rated operational power					
Utilization category	Voltage (V)	No. of phases	No. of poles	Power (kW)	Current (A)
AC-3	220 - 240	3	3	11	-
AC-3	380 - 440	3	3	18,50	35
AC-3	660 - 690	3	3	15	-
AC-23A	220 - 240	3	3	11	•
AC-23A	380 - 440	3	3	22	41
AC-23A	660 - 690	3	3	18,50	-
Max. Fuse rating IEC					•
Fuse characteristic			No. c	f Fuses	Current (A)
gG				1	63
UL60947-4-1, UL508					
Horsepower rating					
			No of phoops No. o	f - (1)	
Across-the-Line Motor Starting		Voltage (V)	No. of phases poles	Power (HP)	Ambient temperature [°C]
DOL		550 - 600	1 :	2 15	40
SCCR / Max. fuse rating					
Conditions of acceptability					
			mnarae 600V ac may whan nroti		
	circuits capable of delivering not more				
Suitable for use on a circuit capab	circuits capable of delivering not more ble of delivering not more than 65000				
	ble of delivering not more than 65000		v max., when protected by 70A Cl	ass J fuses.	
Suitable for use on a circuit capab	ble of delivering not more than 65000 Temperature rating (°C)		V max., when protected by 70A Cl	ass J fuses. ext	
Suitable for use on a circuit capab Temp. rating of wire	ble of delivering not more than 65000		v max., when protected by 70A Cl	ass J fuses. ext	
Suitable for use on a circuit capab	ble of delivering not more than 65000 Temperature rating (°C)		V max., when protected by 70A Cl	ass J fuses. ext	
Suitable for use on a circuit capable Temp. rating of wire  General Information Text	ble of delivering not more than 65000 (  Temperature rating (°C)  60 - 75	rms symmetrical amperes 600\	V max., when protected by 70A Cl  Current (A) 1	ass J fuses. ext	handle and position indicating
Suitable for use on a circuit capable Temp. rating of wire  General Information Text - The operating handle and positi	ble of delivering not more than 65000 Temperature rating (°C)	rms symmetrical amperes 600\ these manual motor controlle	V max., when protected by 70A Cl  Current (A) 7   rs should be provided from the r	ass J fuses. ext	handle and position indicating
Suitable for use on a circuit capable Temp. rating of wire  General Information Text - The operating handle and positi means to be used should have be	ble of delivering not more than 65000 (  Temperature rating (°C) 60 - 75  tion indicating means to be used with	rms symmetrical amperes 600° these manual motor controlle ion with the manual motor cont	Current (A) 7  Current (F) 7  Current (A) 7	ass J fuses. ext	handle and position indicating
Suitable for use on a circuit capable Temp. rating of wire  General Information Text - The operating handle and positimeans to be used should have book and the suitable of th	ble of delivering not more than 65000 (*C)  Temperature rating (*C) 60 - 75  tion indicating means to be used with been previously evaluated in combination	rms symmetrical amperes 600° these manual motor controlle ion with the manual motor cont	Current (A) 7  Current (F) 7  Current (A) 7	ass J fuses. ext	handle and position indicating
Suitable for use on a circuit capable Temp. rating of wire  General Information Text - The operating handle and positi means to be used should have be	ble of delivering not more than 65000 (*C)  Temperature rating (*C) 60 - 75  tion indicating means to be used with been previously evaluated in combination	rms symmetrical amperes 600\text{output} these manual motor controlle ion with the manual motor cont ovided with a method of being I	Current (A) 7  Current (F) 7  Current (A) 7	ass J fuses. ext	handle and position indicating
Suitable for use on a circuit capable Temp. rating of wire  General Information Text - The operating handle and positimeans to be used should have book and the suitable of th	ble of delivering not more than 65000 (*C)  Temperature rating (*C) 60 - 75  tion indicating means to be used with been previously evaluated in combination	rms symmetrical amperes 600\text{output} these manual motor controlle ion with the manual motor cont ovided with a method of being I	rs should be provided from the rollers.  ocked in the OFF-position.	ass J fuses. ext	handle and position indicating
Suitable for use on a circuit capable Temp. rating of wire  General Information Text - The operating handle and positimeans to be used should have book and the suitable of th	ble of delivering not more than 65000 (*C)  Temperature rating (*C) 60 - 75  tion indicating means to be used with been previously evaluated in combination	these manual motor controlle ion with the manual motor cont voided with a method of being l	rs should be provided from the rollers.  ocked in the OFF-position.	ass J fuses. ext	handle and position indicating
Suitable for use on a circuit capable Temp. rating of wire  General Information Text  - The operating handle and positi means to be used should have b - When intended for use as a moto Nominal Voltage	ble of delivering not more than 65000 (*C)  Temperature rating (*C) 60 - 75  tion indicating means to be used with been previously evaluated in combination	these manual motor controlle on with the manual motor controlle voided with a method of being l	rs should be provided from the rollers.  ocked in the OFF-position.	ass J fuses. ext	handle and position indicating
Suitable for use on a circuit capable Temp. rating of wire  General Information Text  - The operating handle and positimeans to be used should have be- When intended for use as a moto Nominal Voltage  Rated insulation voltage Ui	ble of delivering not more than 65000 (*C)  Temperature rating (*C) 60 - 75  tion indicating means to be used with been previously evaluated in combination	these manual motor controlle on with the manual motor cont by vided with a method of being l	rs should be provided from the rollers. ocked in the OFF-position.	ass J fuses. ext	handle and position indicating
Suitable for use on a circuit capable Temp. rating of wire  General Information Text  - The operating handle and positi means to be used should have b - When intended for use as a moto Nominal Voltage	ble of delivering not more than 65000 of Temperature rating (°C) 60 - 75 tion indicating means to be used with been previously evaluated in combination disconnector the device shall be pro-	these manual motor controlle on with the manual motor controlle on with the manual motor controlled with a method of being I Voltage (V) A 600 A Voltage (V) A	V max., when protected by 70A Cl  Current (A) 7	ass J fuses.  iext  manufacturer, or the operating	handle and position indicating
Suitable for use on a circuit capable Temp. rating of wire  General Information Text  - The operating handle and positimeans to be used should have be- When intended for use as a moto Nominal Voltage  Rated insulation voltage Ui	Temperature rating (°C) 60 - 75  tion indicating means to be used with been previously evaluated in combination disconnector the device shall be pro-	these manual motor controlle on with the manual motor controlle on with the manual motor controlled with a method of being I Voltage (V) A 600 A Voltage (V) A	Current (A) 7  Current (A) 7  rs should be provided from the rollers. ocked in the OFF-position.  C / DC C C Ambient temperature (*C)	ass J fuses.  iext  manufacturer, or the operating	handle and position indicating
Suitable for use on a circuit capable.  Temp. rating of wire  General Information  Text  - The operating handle and positimeans to be used should have below the intended for use as a moto.  Nominal Voltage  Rated insulation voltage Ui	ble of delivering not more than 65000 of Temperature rating (°C) 60 - 75 tion indicating means to be used with been previously evaluated in combination disconnector the device shall be pro-	these manual motor controlle on with the manual motor controlle on with the manual motor controlled with a method of being I Voltage (V) A 600 A Voltage (V) A	V max., when protected by 70A Cl  Current (A) 7	ass J fuses.  iext  manufacturer, or the operating	handle and position indicating
Suitable for use on a circuit capable Temp. rating of wire  General Information Text  - The operating handle and positimeans to be used should have be- When intended for use as a moto Nominal Voltage  Rated insulation voltage Ui	Temperature rating (°C) 60 - 75  tion indicating means to be used with been previously evaluated in combination disconnector the device shall be pro-	these manual motor controlle on with the manual motor controlle on with the manual motor controlled with a method of being I Voltage (V) A 600 A Voltage (V) A	rs should be provided from the rollers. ocked in the OFF-position.  C / DC C Ambient temperature (*C)  Ambient temperature (*C)	ass J fuses.  Text  manufacturer, or the operating	handle and position indicating
Suitable for use on a circuit capable.  Temp. rating of wire  General Information  Text  - The operating handle and positimeans to be used should have below the intended for use as a moto.  Nominal Voltage  Rated insulation voltage Ui	Temperature rating (°C) 60 - 75  tion indicating means to be used with been previously evaluated in combination disconnector the device shall be pro-	these manual motor controlle on with the manual motor controlle on with the manual motor controlled with a method of being I Voltage (V) A 600 A Voltage (V) A	rs should be provided from the rollers. ocked in the OFF-position.  C / DC C Ambient temperature (*C)  And	ass J fuses.  Fext  manufacturer, or the operating additional Text	handle and position indicating

tightening torque (lb-in)



Horsepower rating					
Across-the-Line Motor Starting	Voltage (V)	No. of phases	No. of poles	Power (HP)	Ambient temperature [°C]
DOL	220 - 240	1	2	7,50	40
DOL	277 - 277	1	2	7,50	40
DOL	415 - 415	1	2	10	40
DOL	440 - 480	1	2	15	40
DOL	110 - 120	3	3	5	40
DOL	220 - 240	3	3	15	40
DOL	415 - 415	3	3	20	40
DOL	440 - 480	3	3	30	40
DOL	550 - 600	3	3	40	40
Conoral Lico					

General Use					
AC/DC	Voltage (V)	Current (A)	No. of phases	No. of poles	No. of contacts in series
AC	277	60	1	1	1
AC	600	60	1	2	1
AC	600	60	3	3	1

#### CSA

Temp. rating of wire	
Temperature rating (°C)	Current (A) Text
75	

#### 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.	2	0.75mm²	Copper
Solid wire	Min.	1	1.5mm²	Copper
Flexible wire	Max.	1	AWG 6	Copper
Flexible wire	Min.	1	2.5mm²	Copper
Flexible wire	Max.	1	10mm²	Copper
Flexible wire	Min.	2	1.5mm²	Copper
Single-core or stranded wire	Max.	1	AWG 6	Copper
Single-core or stranded wire	Max.	1	16mm²	Copper
Flexible wire with sleeve	Max.	1	10mm²	Copper
Flexible wire with ferrule according to DIN 46228	Min.	2	0.75mm²	Copper
Flexible wire with ferrule according to DIN 46228	Min.	1	1.5mm²	Copper
Stripping length				

Length (mm) -

tightening torque (Nm)

Value
PH2
1,2x6,5

#### General Information

Cross Screwdriver

Recommended screw driver
Type of screw driver

Tightening torque of screws

Slot screwdriver according to DIN 5264

#### Text

- Use only copper wires with or without tinned/silver-plated individual wires. Soldering the end of the wire before wiring is not allowed.
- 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.
- 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 through

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

e Descriptio

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-VE Mounting-VE EN 50022 BF\_KG20A\_3\_VE\_FP IP - Code front side IP40 Stages 2,00 - 5,00 4,10 mm В 70,00 mm B-\_tol. ± 0,50 mm С 25,00 mm C-\_tol. ± 0,50 mm D 36,00 mm E ø 5,00 mm F <= 12,00 mm н G Ø 10,00 - 15,00 mm 48,00 mm Н н J 59,00 mm Κ н 6,70 mm

0,50 Nm



# Wiring diagram KG64.T304.VE

L1 L2 L3 N	
T1 T2 T3 N	





Sample image

# H010-1

# K1.H010/A11-VE

Kind of contact operation: "A" not overlapping Contact combination: "11" 1 NO + 1 NC Type of mounting: "-VE" for type of mounting VE

IEC 60947-3 EN 60947-3, VDE 0660 To	eil 107				
Rated insulation voltage Ui					
reaced insulation voltage of		Voltage (V)	AC/DC		
		690	AC		
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 Taut	
	Current (A)		Ambient temperature	(°C) Additional Text - 40 -	
Pilot duty rating code	10			- 40	
Outy Code					
A600					
General Use					
AC / DC Voltage (V) Current (A)	No. of phases	No.	of poles		No. of contacts in seri
C 600 10	1		1		
General Information Text					
CSA					
Temp. rating of wire					
Temperatur					
	- , ,	_	Curren		
	e rating (°C) 75		Curren	t (A) Text only	
GENERAL TECHNICAL INFORMATION	- , ,		Curren		
	- , ,		Curren		
ize of conductor	- , ,	No.	Curren	only	Material of the wire
size of conductor composition of conductor	75	No.			Material of the wire Copper
size of conductor composition of conductor Elexible wire	75 Min. / Max. value	No	. of conductor per terminal	- only  Cross section (mm²) or (AWG/kcmil)	
cize of conductor composition of conductor Elexible wire Elexible wire	75  Min. / Max. value  Max.	No	. of conductor per terminal	- only  Cross section (mm²) or (AWG/kcmil) 2.5mm²	Copper
Size of conductor composition of conductor Elexible wire Elexible wire Single-core or stranded wire	75  Min. / Max. value  Max.  Max.	No	of conductor per terminal 2	- only  Cross section (mm²) or (AWG/kcmil) 2.5mm² AWG 14	Copper Copper
Size of conductor composition of conductor Flexible wire Flexible wire Single-core or stranded wire Single-core or stranded wire	Min. / Max. value Max. Max. Max. Max.	No	of conductor per terminal 2 2 2 2	- only  Cross section (mm²) or (AWG/kcmil) 2.5mm² AWG 14 AWG 12	Copper Copper Copper
cize of conductor composition of conductor Elexible wire Elexible wire Single-core or stranded wire Elexible wire with ferrule according to DIN 46228	Min. / Max. value  Max.  Max.  Max.  Max.  Max.  Max.		of conductor per terminal 2 2 2 2 2 2	Cross section (mm²) or (AWG/kcmil) 2.5mm² AWG 14 AWG 12 2.5mm²	Copper Copper Copper Copper
Size of conductor composition of conductor Flexible wire Flexible wire Single-core or stranded wire Single-core or stranded wire Flexible wire with ferrule according to DIN 46228	Min. / Max. value  Max.  Max.  Max.  Max.  Max.  Max.	No Length (mm) 8	of conductor per terminal 2 2 2 2 2	Cross section (mm²) or (AWG/kcmil) 2.5mm² AWG 14 AWG 12 2.5mm²	Copper Copper Copper Copper
Size of conductor composition of conductor Flexible wire Flexible wire Single-core or stranded wire Single-core or stranded wire Flexible wire with ferrule according to DIN 46228 Stripping length	Min. / Max. value  Max.  Max.  Max.  Max.  Max.  Max.	Length (mm)	of conductor per terminal 2 2 2 2 2 2	Cross section (mm²) or (AWG/kcmil) 2.5mm² AWG 14 AWG 12 2.5mm²	Copper Copper Copper Copper
Size of conductor composition of conductor Flexible wire Flexible wire Single-core or stranded wire Flexible wire with ferrule according to DIN 46228 Stripping length	Min. / Max. value  Max.  Max.  Max.  Max.  Max.  Max.	Length (mm)	of conductor per terminal 2 2 2 2 2 2	Cross section (mm²) or (AWG/kcmil) 2.5mm² AWG 14 AWG 12 2.5mm²	Copper Copper Copper Copper
GENERAL TECHNICAL INFORMATION Size of conductor composition of conductor Flexible wire Flexible wire Single-core or stranded wire Single-core or stranded wire Flexible wire with ferrule according to DIN 46228 Stripping length Recommended screw driver Type of screw driver Cross Screwdriver	Min. / Max. value  Max.  Max.  Max.  Max.  Max.  Max.	Length (mm)	of conductor per terminal	Cross section (mm²) or (AWG/kcmil) 2.5mm² AWG 14 AWG 12 2.5mm²	Copper Copper Copper Copper



# H010-1 LATERAL AUXILIARY CONTACTS for KG20 - KG317 and KH(R)16 - KH(R)25B K1.H010/A11-VE

