



Sample image

## Datasheet

Article number: 70025399

Designation: KG32.T104/D-A022.KL51V

**Description:** Switchgear

	N 60947-3, VDE 0660 Teil 10	7					
Rated insulation vol							
		V	oltage (V) AC / D	C			
Rated uninterrupted	d ourront lu/lth		690 AC				
Current (A)	Ambient temperature (°C)	Peak temperature	(°C) additional re	equirements			
32	50	r eak temperature			durina 24 hours v	vith peaks up to +55°C	
Rated operational c							
Utilization category	•			Vo	Itage (V)		Current (A
AC-32A					20 - 400		33
Rated operational p							
Utilization category		Voltage (V)	٨	lo. of phases		No. of poles	Power (kW
AC-3		220 - 240		3		3	5,5
AC-3		380 - 440		3		3	7,50
AC-3 AC-23A		660 - 690 220 - 240		3		3	7,50 5,50
AC-23A AC-23A		380 - 440		3		3	5,50 1
AC-23A AC-23A		660 - 690		3		3	1°
Max Fuse Rating IE	FC:	000 - 090					
Fuse characteristic					No. of Fu	ISPS	Current (A
gG					140. 011 0	1	35
-	111.500					· .	
UL60947-4-1,	, UL5U8						
Nominal Voltage		N	(-lh (11) AO (5	10			
		V	oltage (V) AC / D	C			
Rated insulation vol	oltago IIi		600 AC				
Rateu ilisulation voi	ortage of	V	oltage (V) AC / D	10			
		v	600 AC				
Rated thermal curre	ent		000 AC				
rated thermal dance		rent (A)		Amhient temnera	ature (°C) Additio	nnal Text	
	50	30		, unbione tompore	0 - 40	Total Total	
Horsepower rating							
Across-the-Line Mot	tor Starting		Voltage (V)	No. of phases	No. of poles	Power (HP)	Ambient temperature [°C
DOL	-		110 - 120	1	2	1,50	4
DOL			200 - 208	1	2	3	4
DOL			220 - 240	1	2	5	4
DOL			277 - 277	1	2	5	4
DOL			415 - 415	1	2	5	40
DOL			440 - 480	1	2	7,50	40
DOL			550 - 600	1	2	7,50	40
DOL			110 - 120	3	3	3	40
			1.0 .20	ŭ			
DOL			200 - 240	3	3	10	
DOL DOL					3	10 10	
DOL DOL DOL			200 - 240	3		10 20	4( 4)
DOL DOL DOL DOL			200 - 240 415 - 415	3	3	10	40 40 40 40
DOL DOL DOL DOL Pilot duty rating coo	ode		200 - 240 415 - 415 440 - 480	3 3 3	3	10 20	40 40
DOL DOL DOL DOL Pilot duty rating coo Duty Code	ode		200 - 240 415 - 415 440 - 480	3 3 3	3	10 20	4( 4)
DOL DOL DOL DOL DOL DIlot duty rating cod Duty Code A600			200 - 240 415 - 415 440 - 480	3 3 3	3	10 20	4i 4i
DOL DOL DOL Pilot duty rating coo Duty Code A600 SCCR / Max. fuse ra	rating		200 - 240 415 - 415 440 - 480	3 3 3	3	10 20	4i 4i
DOL DOL DOL DOL Pilot duty rating cod Duty Code A600 SCCR / Max. fuse ra Conditions of accep	rating otability		200 - 240 415 - 415 440 - 480 550 - 600	3 3 3 3 3	3 3 3	10 20 25	4( 4)
DOL DOL DOL DOL Pilot duty rating cod Duty Code A600 SCCR / Max. fuse ra Conditions of accep This device is suitat	rating otability ble for use on circuits capable of delive		200 - 240 415 - 415 440 - 480 550 - 600	3 3 3 3 3	3 3 3 3	10 20 25 by Type RK1 fuses.	4( 4)
DOL DOL DOL DOL Pilot duty rating coc Duty Code A600 SCCR / Max. fuse ra Conditions of accep This device is suital	rating otability ble for use on circuits capable of delive a circuit capable of delivering not more		200 - 240 415 - 415 440 - 480 550 - 600	3 3 3 3 3	3 3 3 3	10 20 25 by Type RK1 fuses.	4( 4)
DOL DOL DOL DOL Pilot duty rating coc Duty Code A600 SCCR / Max. fuse ra Conditions of accep This device is suital	rating otability ble for use on circuits capable of delive a circuit capable of delivering not more re	than 65000 rms symmetrical a	200 - 240 415 - 415 440 - 480 550 - 600	3 3 3 3 3	3 3 3	10 20 25 by Type RK1 fuses.	4i 4i
DOL DOL DOL DOL Pilot duty rating coc Duty Code A600 SCCR / Max. fuse ra Conditions of accep This device is suital Suitable for use on a	rating otability ble for use on circuits capable of delive a circuit capable of delivering not more re Temperature rat.	than 65000 rms symmetrical a	200 - 240 415 - 415 440 - 480 550 - 600	3 3 3 3 3	when protected oted by 40A Class	10 20 25 by Type RK1 fuses.	4 4
DOL DOL DOL DOL Pilot duty rating cod Duty Code A600 SCCR / Max. fuse ra Conditions of accep This device is suitals Suitable for use on a Temp. rating of wire	rating otability ble for use on circuits capable of delive a circuit capable of delivering not more re Temperature rat.	than 65000 rms symmetrical a	200 - 240 415 - 415 440 - 480 550 - 600	3 3 3 3 3	3 3 3	10 20 25 by Type RK1 fuses.	4i 4i
DOL DOL DOL DOL Pilot duty rating cod Duty Code A600 SCCR / Max. fuse ra Conditions of accep This device is suital Suitable for use on a Temp. rating of wird General Use	rating otability ble for use on circuits capable of delive a circuit capable of delivering not more re  Temperature rat	than 65000 rms symmetrical and (°C) 60 - 75	200 - 240 415 - 415 440 - 480 550 - 600 ymmetrical amper	res, 600V ac max max., when protec	when protected oted by 40A Class	10 20 25 by Type RK1 fuses.	44 44 41
DOL DOL DOL Pilot duty rating cod Duty Code A600 SCCR / Max. fuse ra Conditions of accep This device is suitath Suitable for use on a Temp. rating of wire  General Use AC / DC	rating  otability ble for use on circuits capable of delive a circuit capable of delivering not more  Temperature rat.  Voltage (V) Current (A)	than 65000 rms symmetrical and (°C) 60 - 75  No. of phases	200 - 240 415 - 415 440 - 480 550 - 600 ymmetrical amper amperes at 600V i	a 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4	when protected oted by 40A Class	10 20 25 by Type RK1 fuses.	44 44 40 No. of contacts in series
DOL DOL DOL DOL Pilot duty rating cod Duty Code A600 SCCR / Max. fuse ra Conditions of accep This device is suitat Suitable for use on a Temp. rating of wird General Use	rating otability ble for use on circuits capable of delive a circuit capable of delivering not more re  Temperature rat	than 65000 rms symmetrical and (°C) 60 - 75	200 - 240 415 - 415 440 - 480 550 - 600 ymmetrical amper amperes at 600V i	res, 600V ac max max., when protec	when protected oted by 40A Class	10 20 25 by Type RK1 fuses.	4 4 4



#### 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 30 0 - 40 Horsepower rating Across-the-Line Motor Starting Ambient temperature [°C] Voltage (V) No. of phases No. of poles Power (HP) DOL 1,50 DOL 220 - 240 2 5 40 DOL 277 - 277 2 5 40 415 - 415 DOL 2 5 40 440 - 480 7.50 40 DOL 2 DOL 550 - 600 7,50 40 110 - 120 40 DOL DOL 220 - 240 3 3 10 40 DOL 415 - 415 3 3 10 40 DOL 440 - 480 3 3 20 40 DOL 550 - 600 3 25 40 Pilot duty rating code Duty Code Temp. rating of wire Temperature rating (°C) Current (A) Text General Use Voltage (V) AC / DC Current (A) No. of phases No. of poles No. of contacts in series AC 600 30 AC 600 30 3 **GENERAL TECHNICAL INFORMATION** Size of conductor No. of conductor per terminal (AWG/kcmil) Cross section (mm²) or composition of conductor Min. / Max. value Material of the wire solid wire Min 1 0.75mm<sup>2</sup> Copper 2 0.5mm<sup>2</sup> solid wire Min. Copper flexible wire Min. 2 0.75mm<sup>2</sup> Copper flexible wire Max. 1 AWG 10 Copper flexible wire Max. 4mm² Copper flexible wire Min. 1 1.5mm<sup>2</sup> Copper Single-core or stranded wire Max 1 6mm<sup>2</sup> Copper Single-core or stranded wire Max. 1 AWG 10 Copper flexible wire with sleeve Max 1 4mm<sup>2</sup> Copper flexible wire with ferrule according to DIN 46228 1 0.75mm<sup>2</sup> Min. Copper flexible wire with ferrule according to DIN 46228 2 0.5mm<sup>2</sup> Min. Copper Stripping length Length (mm) Recommended screw driver Type of screw driver Value PH2 Cross Screwdriver Slot screwdriver according to DIN 5264 0,8x4 Tightening torque of screws tightening torque (Nm) tightening torque (lb-in) 1,25 11 Approbations Marking Specification EAC CE marking **UK Directives** CSA C.22.2 No.14



#### Approbations

Specification

Marking ((((

GB/T14048.3

#### **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.

#### Waste Electrical & Electronic Equipment (WEEE)

Picture name

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

Pioposition 65

Picture name Descripti

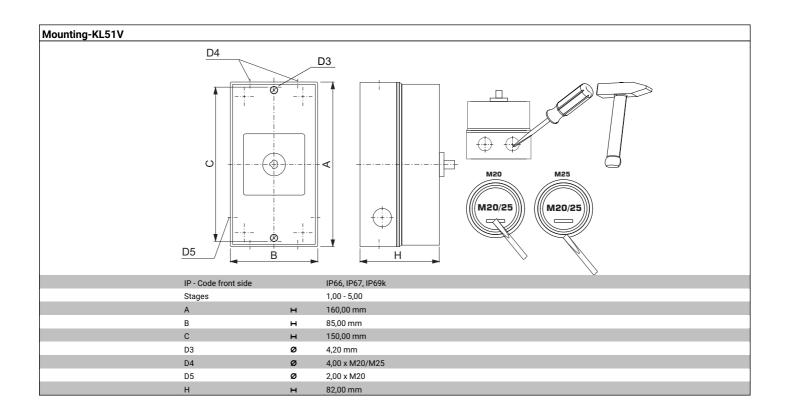
WARNIN

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



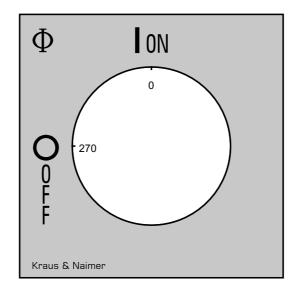


# Wiring diagram KG32.T304.KL51V

L1 L2 L3 N
T1 T2 T3 N



# Face plate s1.F656/C10.V9





### **AUXILIARY CONTACTS**

(cam operated) for switch type KG20 - KG100C and KH(R)16 - KH(R)25B  $\,$ 

Designation: K0.M510A/2CA-B

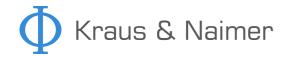
**Number of contacts:** "2" 2 auxiliary contacts **Operation of contacts:** "C" 1 auxiliary contact closed in pos. 1 and 1 auxiliary contact closed in

pos. 0 (NO/NC)

Type of version: "A" 1. auxiliary contact module Type of mounting: "-B" for type of mounting VE,

VE2, silver contacts

	E 0660 Teil 107				
Nominal Voltage		Voltage (	V) AC/DC		
			00 AC		
			00 AC		
Rated uninterrupted current lu/lth		0.2	NO AC		
·	nt temperature (°C)	Peak temperature (°C) ad	ditional requirements		
10	55		nbient temperature +55°C dur	ng 24 hours with peaks up	to +60°C
16	55		nbient temperature +55°C dur		
Rated operational current le					
Itilization category			Volta		Current
AC-15				- 240	2
AC-15			380	- 440	1
AC-15				500	
AC-21A				500	
JL60947-4-1 , UL508					
Nominal Voltage					
			V) AC/DC		
		60	00 AC		
Rated insulation voltage Ui					
			V) AC/DC		
		60	00 AC		
Rated thermal current	- (1)			(-1)	
	Current (A)			e (°C) Additional Text	
Pilot duty rating code	10			0 - 40	
General Use AC / DC Voltage (V)	Current (A)	No. of phases N	lo. of poles 1		No. of contacts in ser
AC 600 GENERAL TECHNICAL INFOR	10		•		No. of contacts in ser
General Use           AC / DC         Voltage (V)           AC         600           GENERAL TECHNICAL INFOR           Size of conductor	10 RMATION	1	1	Cross section (mm²) or	
General Use AC / DC Voltage (V) AC 600 GENERAL TECHNICAL INFOR Size of conductor composition of conductor	10  RMATION  Min. / Max.	1	1  No. of conductor per terminal	(AWG/kcmil)	Material of the wire
General Use AC / DC Voltage (V) AC 600 GENERAL TECHNICAL INFOR Size of conductor composition of conductor solid wire	10  RMATION  Min. / Max. Min.	1	1  No. of conductor per terminal 1	(AWG/kcmil) 0.5mm²	Material of the wire Copper
General Use AC / DC Voltage (V) AC 600 GENERAL TECHNICAL INFOR Size of conductor composition of conductor solid wire solid wire	Min. / Max. Min. Min. Min.	1	No. of conductor per terminal 1 2	(AWG/kcmil) 0.5mm² 0.5mm²	Material of the wire Copper Copper
General Use AC / DC Voltage (V) AC 600 GENERAL TECHNICAL INFOR Size of conductor composition of conductor solid wire solid wire dexible wire	Min. / Max. Min. Min. Min. Min. Min.	1	No. of conductor per terminal  1 2 1	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm²	Material of the wire Copper Copper Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFOR  Size of conductor  composition of conductor  solid wire  lexible wire  flexible wire	Min. / Max. Min. Min. Min. Min. Min. Min. Min.	1	No. of conductor per terminal 1 2 1 2 1 2	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm²	Material of the wire Copper Copper Copper Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFOR  Size of conductor  composition of conductor  solid wire  flexible wire  flexible wire  flexible wire	Min. / Max. Min. Min. Min. Min. Min. Min. Min. Min	1	No. of conductor per terminal  1 2 1 2 2 2	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16	Material of the wire Copper Copper Copper Copper Copper Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFOR  Size of conductor  composition of conductor  solid wire elexible wire lexible wire lexible wire elexible wire elexible wire elexible wire	Min. / Max. Min. Min. Min. Min. Min. Min. Min. Min	1	No. of conductor per terminal  1 2 1 2 2 2 2 2	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² 4WG 16 1.5mm²	Material of the wire Copper Copper Copper Copper Copper Copper Copper
General Use AC / DC Voltage (V) AC 600 GENERAL TECHNICAL INFOR Size of conductor composition of conductor solid wire lexible wire flexible core or stranded wire	Min. / Max. Min. Min. Min. Min. Min. Min. Max. Max. Max. Max.	1	No. of conductor per terminal 1 2 1 2 2 2 2 2 2	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16 1.5mm² AWG 14	Material of the wire Copper Copper Copper Copper Copper Copper Copper Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFOR  Size of conductor  composition of conductor  solid wire  flexible wire  flexible wire  flexible wire  flexible wire  Single-core or stranded wire  Single-core or stranded wire	Min. / Max. Min. Min. Min. Min. Min. Max. Max. Max. Max. Max. Max.	1	No. of conductor per terminal 1 2 1 2 2 2 2 2 2 2	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² 4WG 16 1.5mm² 4WG 14 1.5mm²	Material of the wire Copper Copper Copper Copper Copper Copper Copper Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFOR  Size of conductor  composition of conductor  solid wire  flexible wire  flexible wire  flexible wire  Single-core or stranded wire  Single-core or stranded wire  flexible wire with ferrule according to Di	Min. / Max. Min. Min. Min. Min. Min. Min. Max. Max. Max. Max. Max. Max. Max. Max	1	No. of conductor per terminal 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² 4WG 16 1.5mm² 4WG 14 1.5mm² 1mm²	Material of the wire Copper
General Use AC / DC Voltage (V) AC 600  GENERAL TECHNICAL INFOR Size of conductor composition of conductor solid wire flexible wire with ferrule according to Diffexible wire with ferrule with ferrule with ferrule with ferrule with the with ferrule wi	Min. / Max. Min. Min. Min. Min. Min. Min. Max. Max. Max. Max. Max. Max. Max. Max	1	No. of conductor per terminal  1 2 1 2 2 2 2 2 2 2 1	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² 4WG 16 1.5mm² 4WG 14 1.5mm² 1.5mm² 0.5mm²	Material of the wire Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFOREST of conductor  composition of conductor  solid wire elexible wire with ferrule according to Dielexible wire with ferrule according	Min. / Max. Min. Min. Min. Min. Min. Min. Max. Max. Max. Max. Max. Max. Max. Max	1	No. of conductor per terminal  1 2 1 2 2 2 2 2 2 2 1	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² 4WG 16 1.5mm² 4WG 14 1.5mm² 1mm²	Material of the wire Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFOREST of conductor  composition of conductor  solid wire elexible wire with ferrule according to Dielexible wire with ferrule according	Min. / Max. Min. Min. Min. Min. Min. Min. Max. Max. Max. Max. Max. Max. Max. Max	value	No. of conductor per terminal  2  1  2  2  2  2  2  2  1  2  2	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² 4WG 16 1.5mm² 4WG 14 1.5mm² 1.5mm² 0.5mm²	Material of the wire Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFORED Size of conductor composition of conductor colid wire colid wire lexible wire with ferrule according to Dilexible wire with ferrule according t	Min. / Max. Min. Min. Min. Min. Min. Min. Max. Max. Max. Max. Max. Max. Max. Max	value  Length (mn	No. of conductor per terminal  2  1  2  2  2  2  2  2  1  2  2	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² 4WG 16 1.5mm² 4WG 14 1.5mm² 1.5mm² 0.5mm²	Material of the wire Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFORE  Size of conductor  composition of conductor  solid wire  lexible wire  lexible wire  lexible wire  lexible wire  single-core or stranded wire  single-core or stranded wire  lexible wire with ferrule according to Di  Stripping length	Min. / Max. Min. Min. Min. Min. Min. Min. Max. Max. Max. Max. Max. Max. Max. Max	value  Length (mn	No. of conductor per terminal  2  1  2  2  2  2  2  1  2  2  1  1  2  1  2  2	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² 4WG 16 1.5mm² 4WG 14 1.5mm² 1.5mm² 0.5mm²	Material of the wire Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFOR  Size of conductor  composition of conductor  solid wire  lexible wire with ferrule according to Di  lexible mire with ferrule according to Di  Stripping length	Min. / Max. Min. Min. Min. Min. Min. Min. Max. Max. Max. Max. Max. Max. Max. Max	value  Length (mn	No. of conductor per terminal  2  1  2  2  2  2  2  1  2  2  1  1  2  1  2  2	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² 4WG 16 1.5mm² 4WG 14 1.5mm² 1.5mm² 0.5mm²	Material of the wire Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFOR  Size of conductor  composition of conductor  solid wire flexible core or stranded wire	Min. / Max. Min. Min. Min. Min. Min. Min. Max. Max. Max. Max. Max. Max. Max. Max	value  Length (mn	No. of conductor per terminal  1 2 1 2 2 2 2 2 2 2 1 2 7 1 2	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² 4WG 16 1.5mm² 4WG 14 1.5mm² 1.5mm² 0.5mm²	Material of the wire Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFORESize of conductor  composition of conductor  solid wire elexible wire elexible wire elexible wire lexible wire with ferrule according to DI	Min. / Max. Min. Min. Min. Min. Min. Max. Max. Max. Max. Max. Max. Max. Max	value  Length (mn	No. of conductor per terminal  1 2 1 2 2 2 2 2 2 2 1 1 2 Value	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² 4WG 16 1.5mm² 4WG 14 1.5mm² 1.5mm² 0.5mm²	Material of the wire Copper



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