



Sample image

Datasheet

Article number: 70009947

Designation: KG64.T103/40.KL11V

Description: Switchgear

IEC 60947-3 EN 60947-3, VDE	0660 Teil 107				
Rated insulation voltage Ui		17.16	40 40 (50		
			(V) AC/DC 90 AC		
Rated impulse withstand voltage Uimp			770 AO		
Voltage (kV) Overvoltage categor	ory Pollution d	egree Supply syst	em		Function
, , , , , , , , , , , , , , , , , , ,		• • • • • • • • • • • • • • • • • • • •			Switch / Switch
6 III	3	Valid for lin	es with grounded common	neutral termination	disconnector
Rated uninterrupted current lu/lth Current (A) Ambient	t temperature (°C)	Peak temperature (°C) a	dditional requirements		
63	50			during 24 hours with peaks up to +55°C	
Conventional enclosed thermal current					
				No. of stages (from -	
Current (A) Ambient temperature (°C)	Peak temperature (°C)	Additional requirements		to) Mounting	Mounting size
63 35	40	Ambient temperature +35°C of up to +40°C	during 24 hours with peaks		
Rated operational current le					
Utilization category			V	oltage (V)	Current (A)
AC-32A				20 - 400	63
AC-20A				690	63
AC-21A				20 - 690	63
AC-22A				220 - 500	63
AC-22A				660 - 690	55
Rated operational power					
Utilization category		Voltage (V)	No. of phases	No. of poles	Power (kW)
AC-3		220 - 240	3	3	11
AC-3		380 - 440	3	3	18,50
AC-3		500 - 500	3	3	22
AC-3		660 - 690	3	3	15
AC-23A		220 - 240	3	3	11
AC-23A		380 - 440	3	3	22
AC-23A		500 - 500	3	3	30
AC-23A		660 - 690	3	3	18,50
Max Fuse Rating IEC					
Fuse characteristic				No. of Fuses	Current (A)
gG				1	63
Tested AC and DC values				·	
Utilization category / Time					
constant		Off or change-over switch	V	oltage (V) AC / DC	Current (A)
DC-21B		ON - OFF		24 DC	63
DC-21B	2	ON - OFF		48 DC	63
Rated conditional short-circuit current					
Curi	rent (kA)	Т	ext	cut-off current Ic (kA)	Durchlassenergie I²t (kA²s)
	15			5,10	17,57
Rated breaking capacity					
	Voltage (V)		C	Current (A) Utilization category / UL (DOL)
	220 - 240			350	
	380 - 440			350	
	660 - 690			190	
Rated short-circuit making capacity Icm	<u> </u>				
					Current (A)
					3000
UL60947-4-1, UL508					
Nominal Voltage					
g-		Voltage	(V) AC/DC		
			000 AC		
Rated insulation voltage Ui					
		Voltage	(V) AC/DC		
			000 AC		
Rated thermal current					
	Current (A)		Ambient temper	rature (°C) Additional Text	
	60			0 - 40	
				· · · · · · · · · · · · · · · · · · ·	



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	3	40
DOL				220 - 240	1	2	7,50	40
DOL				277 - 277 415 - 415	1	2 2	7,50 10	40 40
DOL				440 - 480	1	2	15	40
DOL				550 - 600	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 SCCR / Max. fuse ra	ating			550 - 600	3	3	40	40
Conditions of accep								
		its capable of delivering	ng not more than 10kA rms s	symmetrical amper	es, 600V ac max.	when protected	by Type RK1 fuses.	
			han 65000 rms symmetrical					
Temp. rating of wire	e							
		Temperature rating			Cu	rrent (A) Text		
General Use		0	0 - 75					
AC / DC	Voltage (V)	Current (A)	No. of phases	No. of poles	s			No. of contacts in series
AC	277	60	1	710. 07 pores				1
AC	600	60	1		2			1
AC	600	60	3	3	3			1
Suitable as Motor d	lisconnect			11077	D DICCOMMENT	U /004 T :		
Yes/No				МОТО! 	R-DISCONNECT-U	L/CSA Text		
General Information	n							
Text								
to be used should	have been previous	sly evaluated in combi	used with these manual moto nation with the manual moto shall be provided with a metl	or controllers.			urer, or the operating	handle and position indicating means
CSA								
Nominal Voltage								
				Voltage (V) AC / De	С			
				600 AC				
Rated insulation vo	ltage Ui							
			l	Voltage (V) AC / Do 600 AC	С			
L								
Rated thermal curre	ent							
Rated thermal curre	ent	Curre	nt (A)		Ambient tempera	ture (°C) Additio	onal Text	
	ent	Curre	nt (A) 60		Ambient tempera	ture (°C) Additio	onal Text	
Horsepower rating		Curre				0 - 40		Ambient temporature [90]
Horsepower rating Across-the-Line Mot		Curre		Voltage (V)	No. of phases	0 - 40 No. of poles	Power (HP)	Ambient temperature [°C]
Horsepower rating Across-the-Line Mot DOL		Curre		Voltage (V) 110 - 120		0 - 40 No. of poles 2	Power (HP)	40
Horsepower rating Across-the-Line Mot		Curre		Voltage (V)	No. of phases	0 - 40 No. of poles	Power (HP)	
Horsepower rating Across-the-Line Mot DOL DOL		Curre		Voltage (V) 110 - 120 220 - 240	No. of phases	0 - 40 No. of poles 2 2	Power (HP) 3 7,50	40 40
Horsepower rating Across-the-Line Mot DOL DOL DOL DOL DOL DOL DOL		Curre		Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480	No. of phases 1 1 1 1 1	0 - 40 No. of poles 2 2 2 2 2 2	Power (HP) 3 7,50 7,50 10	40 40 40 40 40
Horsepower rating Across-the-Line Mot DOL DOL DOL DOL DOL DOL DOL DOL		Curre		Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600	No. of phases 1 1 1 1 1 1	0-40 - No. of poles 2 2 2 2 2 2 2 2	Power (HP) 3 7,50 7,50 10 15	40 40 40 40 40 40
Horsepower rating Across-the-Line Mot DOL		Curre		Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 440 450 - 600 110 - 120	No. of phases 1 1 1 1 1 1 3	0-40 - No. of poles 2 2 2 2 2 2 3	Power (HP) 3 7,50 7,50 10 15 15	40 40 40 40 40 40 40
Horsepower rating Across-the-Line Mot DOL		Curre		Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 220 - 240	No. of phases 1 1 1 1 1 3 3	0 - 40 - No. of poles 2 2 2 2 2 2 3 3	Power (HP) 3 7,50 7,50 10 15 5 15	40 40 40 40 40 40 40 40
Horsepower rating Across-the-Line Mot DOL		Curre		Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 220 - 240 415 - 415	No. of phases 1 1 1 1 1 3 3 3	0 - 40 - No. of poles 2 2 2 2 2 3 3 3 3	Power (HP) 3 7,50 7,50 10 15 15 15 20	40 40 40 40 40 40 40 40 40
Horsepower rating Across-the-Line Mot DOL		Curre		Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 220 - 240	No. of phases 1 1 1 1 1 3 3	0 - 40 - No. of poles 2 2 2 2 2 2 3 3	Power (HP) 3 7,50 7,50 10 15 5 15	40 40 40 40 40 40 40 40
Horsepower rating Across-the-Line Mot DOL	tor Starting		60	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 220 - 240 415 - 415 440 - 480	No. of phases 1 1 1 1 3 3 3 3	0 - 40 - No. of poles 2 2 2 2 2 2 3 3 3 3 3 3 3	Power (HP) 3 7,50 7,50 10 15 15 20 30	40 40 40 40 40 40 40 40 40 40
Horsepower rating Across-the-Line Mot DOL	tor Starting	Curre	60 g (°C)	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 220 - 240 415 - 415 440 - 480	No. of phases 1 1 1 1 3 3 3 3	0 - 40 - No. of poles 2 2 2 2 2 2 3 3 3 3 3 7rrent (A) Text	Power (HP) 3 7,50 7,50 10 15 15 20 30	40 40 40 40 40 40 40 40 40 40
Horsepower rating Across-the-Line Mot DOL	tor Starting		60	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 220 - 240 415 - 415 440 - 480	No. of phases 1 1 1 1 3 3 3 3	0 - 40 - No. of poles 2 2 2 2 2 2 3 3 3 3 3 3 3	Power (HP) 3 7,50 7,50 10 15 15 20 30	40 40 40 40 40 40 40 40 40 40
Horsepower rating Across-the-Line Mot DOL	tor Starting		60 g (°C)	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 220 - 240 415 - 415 440 - 480	No. of phases 1 1 1 1 1 3 3 3 3 3 Cu	0 - 40 - No. of poles 2 2 2 2 2 2 3 3 3 3 3 7rrent (A) Text	Power (HP) 3 7,50 7,50 10 15 15 20 30	40 40 40 40 40 40 40 40 40 40
Horsepower rating Across-the-Line Mot DOL	e Voltage (V) 277	Temperature rating Current (A) 60	60 g (°C) 75 No. of phases	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 220 - 240 415 - 415 440 - 480 550 - 600	No. of phases 1 1 1 1 1 3 3 3 3 Cu	0 - 40 - No. of poles 2 2 2 2 2 2 3 3 3 3 3 7rrent (A) Text	Power (HP) 3 7,50 7,50 10 15 15 20 30	40 40 40 40 40 40 40 40 40 40 40
Horsepower rating Across-the-Line Mot DOL	e Voltage (V) 277 600	Temperature rating Current (A) 60 60	60 g (°C) 75 No. of phases 1	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 220 - 240 415 - 415 440 - 480 550 - 600 No. of poles	No. of phases 1 1 1 1 1 3 3 3 3 Cu	0 - 40 - No. of poles 2 2 2 2 2 2 3 3 3 3 3 7rrent (A) Text	Power (HP) 3 7,50 7,50 10 15 15 20 30	40 40 40 40 40 40 40 40 40 40 40 10 10 10 10 10 10 10 10 10 10 10 10 10
Horsepower rating Across-the-Line Mot DOL	voltage (V) 277 600 600	Temperature rating Current (A) 60	60 g (°C) 75 No. of phases	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 220 - 240 415 - 415 440 - 480 550 - 600 No. of poles	No. of phases 1 1 1 1 1 3 3 3 3 Cu	0 - 40 - No. of poles 2 2 2 2 2 2 3 3 3 3 3 7rrent (A) Text	Power (HP) 3 7,50 7,50 10 15 15 20 30	40 40 40 40 40 40 40 40 40 40 40 No. of contacts in series
Horsepower rating Across-the-Line Mot DOL	voltage (V) 277 600 600	Temperature rating Current (A) 60 60	60 g (°C) 75 No. of phases 1	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 220 - 240 415 - 415 440 - 480 550 - 600	No. of phases 1 1 1 1 1 3 3 3 3 3 Cu	0 - 40 - No. of poles 2 2 2 2 2 3 3 3 3 3 rrrent (A) Text	Power (HP) 3 7,50 7,50 10 15 15 20 30	40 40 40 40 40 40 40 40 40 40 40 10 10 10 10 10 10 10 10 10 10 10 10 10
Horsepower rating Across-the-Line Mot DOL	voltage (V) 277 600 600	Temperature rating Current (A) 60 60	60 g (°C) 75 No. of phases 1	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 220 - 240 415 - 415 440 - 480 550 - 600	No. of phases 1 1 1 1 1 3 3 3 3 3 Cu S 1 R-DISCONNECT-U	0 - 40 - No. of poles 2 2 2 2 2 3 3 3 3 3 rrrent (A) Text	Power (HP) 3 7,50 7,50 10 15 15 20 30	40 40 40 40 40 40 40 40 40 40 40 10 10 10 10 10 10 10 10 10 10 10 10 10
Horsepower rating Across-the-Line Mot DOL	e Voltage (V) 277 600 600 disconnect	Temperature rating Current (A) 60 60	60 g (°C) 75 No. of phases 1	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 220 - 240 415 - 415 440 - 480 550 - 600	No. of phases 1 1 1 1 1 3 3 3 3 3 Cu	0 - 40 - No. of poles 2 2 2 2 2 3 3 3 3 3 rrrent (A) Text	Power (HP) 3 7,50 7,50 10 15 15 20 30	40 40 40 40 40 40 40 40 40 40 40 10 10 10 10 10 10 10 10 10 10 10 10 10
Horsepower rating Across-the-Line Mot DOL	e Voltage (V) 277 600 600 disconnect	Temperature rating Current (A) 60 60	60 g (°C) 75 No. of phases 1	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 220 - 240 415 - 415 440 - 480 550 - 600	No. of phases 1 1 1 1 1 3 3 3 3 3 Cu S 1 R-DISCONNECT-U	0 - 40 - No. of poles 2 2 2 2 2 3 3 3 3 3 rrrent (A) Text	Power (HP) 3 7,50 7,50 10 15 15 20 30	40 40 40 40 40 40 40 40 40 40 40 10 10 10 10 10 10 10 10 10 10 10 10 10
Horsepower rating Across-the-Line Mot DOL	e Voltage (V) 277 600 600 disconnect	Temperature rating Current (A) 60 60	60 g (*C) 75 No. of phases 1 3	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 220 - 240 415 - 415 440 - 480 550 - 600 No. of poles MOTOL SUITAL	No. of phases 1 1 1 1 1 3 3 3 3 3 Cu S 1 R-DISCONNECT-U	0 - 40 - No. of poles 2 2 2 2 2 3 3 3 3 3 rrrent (A) Text	Power (HP) 3 7,50 7,50 10 15 15 20 30	40 40 40 40 40 40 40 40 40 40 40 10 10 10 10 10 10 10 10 10 10 10 10 10
Horsepower rating Across-the-Line Mot DOL	e Voltage (V) 277 600 600 disconnect	Temperature rating Current (A) 60 60	60 g (*C) 75 No. of phases 1 3	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 220 - 240 415 - 415 440 - 480 550 - 600	No. of phases 1 1 1 1 1 3 3 3 3 3 Cu S 1 R-DISCONNECT-U	0 - 40 - No. of poles 2 2 2 2 2 3 3 3 3 3 rrrent (A) Text	Power (HP) 3 7,50 7,50 10 15 15 20 30	40 40 40 40 40 40 40 40 40 40 40 10 10 10 10 10 10 10 10 10 10 10 10 10
Horsepower rating Across-the-Line Mot DOL	e Voltage (V) 277 600 600 disconnect	Temperature rating Current (A) 60 60 60	9 (°C) 75 No. of phases 1 1 3	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 220 - 240 415 - 415 440 - 480 550 - 600 No. of poles MOTOR SUITAL	No. of phases 1 1 1 1 1 3 3 3 3 3 Cu s 1 2 2 3 R-DISCONNECT-U BLE FOR MOTOR	0 - 40 - No. of poles 2 2 2 2 2 3 3 3 3 3 rrrent (A) Text	Power (HP) 3 7,50 7,50 10 15 15 5 15 40 30 40	40 40 40 40 40 40 40 40 40 40 10 10 11 11
Horsepower rating Across-the-Line Mot DOL	e Voltage (V) 277 600 600 disconnect	Temperature rating Current (A) 60 60	60 g (*C) 75 No. of phases 1 3	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 220 - 240 415 - 415 440 - 480 550 - 600 No. of poles MOTOR SUITAL	No. of phases 1 1 1 1 1 3 3 3 3 3 Cu S 1 R-DISCONNECT-U	0 - 40 - No. of poles 2 2 2 2 2 3 3 3 3 3 rrrent (A) Text	Power (HP) 3 7,50 7,50 10 15 15 20 30	40 40 40 40 40 40 40 40 40 40 40 10 10 10 10 10 10 10 10 10 10 10 10 10
Horsepower rating Across-the-Line Mot DOL	e Voltage (V) 277 600 600 disconnect	Temperature rating Current (A) 60 60 60	9 (°C) 75 No. of phases 1 1 3	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 220 - 240 415 - 415 440 - 480 550 - 600 No. of poles MOTOR SUITAL	No. of phases 1 1 1 1 1 3 3 3 3 3 Cu s 1 2 2 3 R-DISCONNECT-U BLE FOR MOTOR	0 - 40 - No. of poles 2 2 2 2 2 3 3 3 3 3 rrrent (A) Text	Power (HP) 3 7,50 7,50 10 15 15 5 15 40 30 40	40 40 40 40 40 40 40 40 40 40 10 10 11 11
Horsepower rating Across-the-Line Mot DOL	e Voltage (V) 277 600 600 disconnect	Temperature rating Current (A) 60 60 60	9 (°C) 75 No. of phases 1 1 3	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 220 - 240 415 - 415 440 - 480 550 - 600 No. of poles MOTOR SUITAL	No. of phases 1 1 1 1 1 3 3 3 3 3 Cu s 1 2 2 3 R-DISCONNECT-U BLE FOR MOTOR	0 - 40 - No. of poles 2 2 2 2 2 3 3 3 3 3 rrrent (A) Text	Power (HP) 3 7,50 7,50 10 15 15 5 15 40 30 40	No. of contacts in series 1 1 1

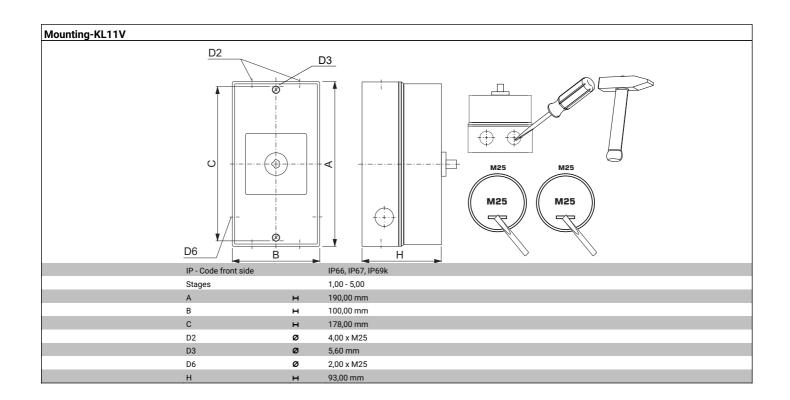


Minimal ratings (voltage/current)		Current (m. A) En		•	Farrisa	annont conditions 2	Environment conditions 2	
Voltage (V)		An	ntamination with:	free of particular sulfur and/or		nment conditions 2 e extraordinary contamin	Environment conditions 3	
24			ist is expected an adequitotection is required.	ate				
Rated short-time withstand current Icw								
			Time (s) 1					Current (
Size of conductor								- 5
composition of conductor	Min. / Max.	valua	No	of conductor parts	orminal	Cross section (mm²) or (AWG/kcmil)	Material of the wire	
solid wire	Min.	value	NO.	. of conductor per to		0.75mm ²	Copper	
solid wire	Min.					1.5mm²	Copper	
flexible wire	Max.					AWG 6	Copper	
flexible wire	Min.				1	2.5mm ²	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.					16mm²	Copper	
flexible wire with sleeve	Max.					10mm²	Copper	
flexible wire with ferrule according to DIN 46228						0.75mm²	Copper	
flexible wire with ferrule according to DIN 46228	Min.				1	1.5mm²	Copper	
Stripping length			Longth (man)					
			Length (mm)					
				.				
			12	<u> → </u>				
Recommended screw driver				Value				
Type of screw driver				Value PH2				
Cross Screwdriver Slot screwdriver according to DIN 5264				1,2x6,5				
Tightening torque of screws				1,230,3				
rightening torque of screws		tiahter	ning torque (Nm)				tightening	toraue (lh:
		tigriter	1,80				agnening	torque (ib
Power loss per pole			.,00					
								Power (
15000)		-5 - 55			v n e	'alid for manual operation. Valid for vithout optional extras. The value re nechanics of the device, for lifetime electrical contacts please refer to "el alues". One operating cycle means	fers to the of the lectrical l
Electrical life (B10-Value)								
	ne constant				num	ber of series		
category cos(φ)	(ms) 	Voltage (V) 220	Current (A) 20	No. of operations		contacts AC/DC	No. of phases	No. of po
0,64 0,65		380	20	200000 200000		1 AC 1 AC	1	
AC-23	-	500	45	94000		1 AC	3	
AC-22 -	_	500	63	50000		1 AC	3	
AC-23 -		690	22,40	150000		1 AC	3	
	50	60	2	100000		1 DC	1	
	55	110	1,50	75000		1 DC	1	
Degree of protection P - Code switch terminal								
YEZU								
				Maximum tem	peratur	e (°C) additional requirer	ments	
Conditions during transport and storing	temperature (°C)						atures below -5°C no shock load pe	rmissible
	temperature (°C) -40							
Conditions during transport and storing Minimun Shock / Vibration	, ,							
Conditions during transport and storing Minimum Shock / Vibration Type of oscillation	, ,			Values				
Conditions during transport and storing Minimum Shock / Vibration Type of oscillation Resistance to vibration	, ,			Min. 4g, 2-100Hz, 1	,6mm			
Conditions during transport and storing Minimum Shock / Vibration Type of oscillation Resistance to vibration Resistance to shock	, ,				,6mm			
Conditions during transport and storing Minimun Shock / Vibration Type of oscillation Resistance to vibration Resistance to shock General Information	, ,			Min. 4g, 2-100Hz, 1	,6mm			
Conditions during transport and storing Minimum Shock / Vibration Type of oscillation Resistance to vibration Resistance to shock General Information Fext	-40			Min. 4g, 2-100Hz, 1	,6mm			
Conditions during transport and storing Minimum Shock / Vibration Type of oscillation Resistance to vibration Resistance to shock General Information Text EMC Note: This device is suitable for use in en-	-40			Min. 4g, 2-100Hz, 1	,6mm			
Conditions during transport and storing Minimum Shock / Vibration Type of oscillation Resistance to vibration Resistance to shock General Information Text EMC Note: This device is suitable for use in en-	vironment A and B.			Min. 4g, 2-100Hz, 1 min. 6g, 6ms				
Conditions during transport and storing Minimum Shock / Vibration Type of oscillation Resistance to vibration Resistance to shock General Information Text EMC Note: This device is suitable for use in end Do not lubricate or treat contacts. Switches may only be mounted, connected and	vironment A and B.			Min. 4g, 2-100Hz, 1 min. 6g, 6ms				
Conditions during transport and storing Minimum Shock / Vibration Type of oscillation Resistance to vibration Resistance to shock Seneral Information Fext EMC Note: This device is suitable for use in emponent of the properties of the proper	vironment A and B. I set into operation with tin. ghtened during pro	by qualified persoduction. Take ca	sons according to	Min. 4g, 2-100Hz, 1 min. 6g, 6ms	of tech	nology.	oing both sides of linked terminals.	After wir
Conditions during transport and storing Minimum Shock / Vibration Type of oscillation Resistance to vibration Resistance to shock General Information Text EMC Note: This device is suitable for use in enterpolation and the storing and the storing are to shock. Do not lubricate or treat contacts. Switches may only be mounted, connected and the storing are the storing are the storing and the storing are th	vironment A and B. I set into operation with tin. ghtened during pro	by qualified persoduction. Take ca	sons according to	Min. 4g, 2-100Hz, 1 min. 6g, 6ms	of tech	nology.		
Conditions during transport and storing Minimum Shock / Vibration Type of oscillation Resistance to vibration Resistance to shock General Information Text - Do not lubricate or treat contacts. - Switches may only be mounted, connected and - Use copper wire only. Do not coat the wire end - Terminals with factory fitted jumper links are ti	vironment A and B. I set into operation with tin. ghtened during pro	by qualified persoduction. Take ca	sons according to	Min. 4g, 2-100Hz, 1 min. 6g, 6ms	of tech	nology.		stance (m
Conditions during transport and storing Minimum Shock / Vibration Type of oscillation Resistance to vibration Resistance to shock General Information Text - Do not lubricate or treat contacts. Switches may only be mounted, connected and Use copper wire only. Do not coat the wire end Terminals with factory fitted jumper links are ti all terminal screws must be tightened to recom Creepage distance	vironment A and B. I set into operation with tin. ghtened during pro	by qualified persoduction. Take ca	sons according to	Min. 4g, 2-100Hz, 1 min. 6g, 6ms	of tech	nology.		After wir
Conditions during transport and storing Minimum Shock / Vibration Type of oscillation Resistance to vibration Resistance to shock General Information Text - EMC Note: This device is suitable for use in environment of the suitable of the suitable for use in environment of the suitable	vironment A and B. I set into operation with tin. ghtened during pro	by qualified persoduction. Take ca	sons according to	Min. 4g, 2-100Hz, 1 min. 6g, 6ms	of tech	nology.	Di	stance (m
Conditions during transport and storing Minimum Shock / Vibration Type of oscillation Resistance to vibration Resistance to shock General Information Text EMC Note: This device is suitable for use in endone to the storing of t	vironment A and B. I set into operation with tin. ghtened during pro	by qualified persoduction. Take ca	sons according to	Min. 4g, 2-100Hz, 1 min. 6g, 6ms	of tech	nology.	Di	stance (n 12
Conditions during transport and storing Minimum Shock / Vibration Type of oscillation Resistance to vibration Resistance to shock General Information Text EMC Note: This device is suitable for use in end Do not lubricate or treat contacts. Switches may only be mounted, connected and Use copper wire only. Do not coat the wire end Terminals with factory fitted jumper links are tiall terminal screws must be tightened to recome Terepage distance	vironment A and B. I set into operation with tin. ghtened during pro	by qualified personduction. Take ca ecifications.	sons according to	Min. 4g, 2-100Hz, 1 min. 6g, 6ms	of tech	nology.	Di	stance (r 1: stance (r 1:



Waste Electrical 8	Electronic Equipment (WEEE)
Picture name	Description
Z	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
\triangle	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





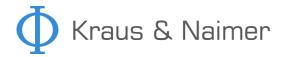
Wiring diagram KG64.T303.KL11V

L	.1 L2 L3
Т	T1 T2 T3

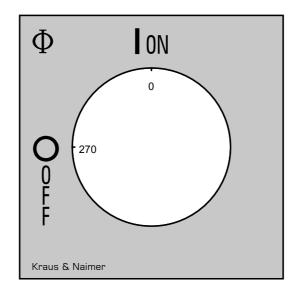


Switch program KG64.T303.KL11V

raus ace Plate 1 0 90 180 agle ang Angle	·	L1 1 1 1 2	L2 3	L3 5	7	9	11	13	1 of 1
90 180 180 ngle	90	1 \	3	5	7	9	11	13	15
ngle	90)	\	\					
ngle		2	l	J					
ng Angle		2							
		T1	4 T2	6 T3	8	10	12	14	16
	270			-					
1	0								
	90								
	180								
	1	90	90	90	90	90	90	90	90



Face plate s1.F656/C10.V9





AUXILIARY CONTACTS

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

Designation: K1.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 Te	en 107			
Nominal Voltage		Voltage (V) AC / DC		
		690 AC		
Rated uninterrupted current lu/lth		030 710		
Current (A) Ambient temperatur	re (°C) Peak te	emperature (°C) additional requirements		
16	55		55°C during 24 hours with peaks up to	+60°C
Conventional enclosed thermal current Ithe	00	oo ranbient temperature .	50 0 during 24 nours with peaks up to	.00 0
			No. of stages (from -	
Current (A) Ambient temperature (°C) Peak ten	nperature (°C) Additional r	equirements	to) Mounti	ing Mounting size
	Ambient te	mperature +35°C during 24 hours with pe		
16 35	40 up to +40°C			-
Rated operational current le				
Utilization category			Voltage (V)	Current (
AC-15			110 - 240	
AC-15			380 - 440	
AC-15			500	1,
AC-21A			20 - 690	
UL60947-4-1 . UL508				
Nominal Voltage				
		Voltage (V) AC / DC		
		600 AC		
Rated insulation voltage Ui		000 710		
		Voltage (V) AC / DC		
		600 AC		
Rated thermal current		000 AC		
natea thermal our ent	Current (A)	Amhient ter	nperature (°C) Additional Text	
	10	Timblett tel	0 - 40	
Pilot duty rating code	10		0 40	
Duty Code				
A600				
General Use				
AC / DC Voltage (V) Current (A	No. of pha	ses No. of poles		No. of contacts in seri
AC Vollage (V) Cullett (A) AC 600 10	•	1 1 1		No. or contacts in sen
)	-!		
GENERAL TECHNICAL INFORMATION				
Minimal ratings (voltage/current)				
Voltage (V)	Current (mA	Environment conditions	Environment conditions 2	Environment conditions 3
		Ambient air must be free of particular		
		contamination with sulfur and/or	In case extraordinary contamination	
20	ı	sulfurous components such as H2S etc.	with dust is expected an adequate dust protection is required.	_
Size of conductor		etc.	dust protection is required.	
Size of conductor			Cross section (mm²) or	
composition of conductor	Min. / Max. value	No. of conductor per t	terminal (AWG/kcmil)	Material of the wire
solid wire	Min.	. To. o. conductor per t	1 0.5mm²	Copper
solid wire	Min.		2 0.5mm ²	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 14 2 AWG 12	Copper
Single-core or stranded wire	Max.		2 2.5mm ²	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 flexible wire with ferrule according to DIN 46228	Min.		2 0.5mm ²	
•	IVIIII.		Z U.SHIIIF	Copper
Stripping length		Longth (mm)		
		Length (mm)		
		8		



Recommended screw driver	
Type of screw driver	Value
Cross Screwdriver	PH1
Slot screwdriver according to DIN 5264	0,8x4
Tightening torque of screws	
tightening torque	(Nm) tightening torque (lb-in)
	0,60
Power loss per pole	
	Power (W)
	0,60
Degree of protection	
IP - Code switch terminal	
IP20	
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
General Information	
Text	
- Do not lubricate or treat contacts.	
- Switches may only be mounted, connected and set into operation by qualified persons accord	ing to the accepted rules of technology.
- Use copper wire only. Do not coat the wire end with tin.	3
13 21	
14 22	