

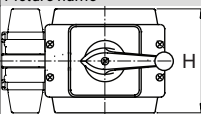
Datasheet



Article number: 70014344

Designation: KG64.T103/33.KL11V

Description: Switchgear

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 / Switch disconnector
Rated uninterrupted current Iu/Ith						
Current (A)		Ambient temperature (°C)		Peak temperature (°C) additional requirements		
63		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 size
63		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		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			No. of contacts in series	Off or change-over switch	Voltage (V) AC / DC	Current (A)
DC-21B			1	ON - OFF	24 DC	63
DC-21B			2	ON - OFF	48 DC	63
Rated conditional short-circuit current						
Current (kA)			Text	cut-off current Ic (kA)		Durchlassenergie I²t (kA²s)
15			--	5,10		17,57
Rated breaking capacity						
Voltage (V)			Current (A)		Utilization category / UL (DOL)	
220 - 240			350 --			
380 - 440			350 --			
660 - 690			190 --			
Rated short-circuit making capacity Icm						
						Current (A)
						3000
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	
60			0 - 40		--	
Horsepower rating						
Across-the-Line Motor Starting				Voltage (V)	No. of phases	No. of poles
DOL				110 - 120	1	2
DOL				220 - 240	1	2


Horsepower rating						
Across-the-Line Motor Starting						
	Voltage (V)	No. of phases	No. of poles	Power (HP)	Ambient temperature [°C]	
DOL	277 - 277	1	2	7,50	40	
DOL	415 - 415	1	2	10	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	550 - 600	3	3	40	40	
SCCR / Max. fuse rating						
Conditions of acceptability						
This device is suitable for use on circuits capable of delivering not more than 10kA rms symmetrical amperes, 600V ac max. when protected by Type RK1 fuses.						
Suitable for use on a circuit capable of delivering not more than 65000 rms symmetrical amperes 600V max., when protected by 70A Class J fuses.						
Temp. rating of wire						
Temperature rating (°C)			Current (A) Text			
60 - 75			-- --			
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	
Suitable as Motor disconnect						
Yes/No			MOTOR-DISCONNECT-UL/CSA Text			
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 disconnect 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	
		60	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	3	40	
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	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	550 - 600	3	3	40	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	60	1	1	1	
AC	600	60	1	2	1	
AC	600	60	3	3	1	
Suitable as Motor disconnect						
Yes/No			MOTOR-DISCONNECT-UL/CSA Text			
Y			SUITABLE FOR MOTOR DISCONNECT.			
MASTER DATA						
Max. number of stages						
			number of stages Modul			
			4 KO			
Switch Measures						
Picture name	B	F	H	H1	H2	H3
	--	--	64	--	--	--
GENERAL TECHNICAL INFORMATION						
Minimal ratings (voltage/current)						
Voltage (V)		Current (mA)	Environment conditions	Environment conditions 2	Environment conditions 3	
24		500	Ambient air must be free of particular contamination with sulfur and/or sulfurous components such as H2S	In case extraordinary contamination with dust is expected an adequate dust protection is required.	--	

etc.										
Rated short-time withstand current I _{cw}										
					Time (s)		Current (A)			
					1		580			
Size of conductor										
composition of conductor		Min. / Max. value		No. of conductor per terminal		Cross section (mm ²) or (AWG/kcmil)		Material of the wire		
solid wire		Min.		2		0.75mm ²		Copper		
solid wire		Min.		1		1.5mm ²		Copper		
flexible wire		Max.		1		AWG 6		Copper		
flexible wire		Min.		1		2.5mm ²		Copper		
flexible wire		Max.		1		10mm ²		Copper		
flexible wire		Min.		2		1.5mm ²		Copper		
Single-core or stranded wire		Max.		1		AWG 6		Copper		
Single-core or stranded wire		Max.		1		16mm ²		Copper		
flexible wire with sleeve		Max.		1		10mm ²		Copper		
flexible wire with ferrule according to DIN 46228		Min.		2		0.75mm ²		Copper		
flexible wire with ferrule according to DIN 46228		Min.		1		1.5mm ²		Copper		
Stripping length										
Length (mm) – 										
12										
Recommended screw driver										
Type of screw driver				Value						
Cross Screwdriver				PH2						
Slot screwdriver according to DIN 5264				1,2x6,5						
Tightening torque of screws										
					tightening torque (Nm)		tightening torque (lb-in)			
					1,80		16			
Power loss per pole										
									Power (W)	
									2,20	
Mechanical life										
No. of operating cycles			Ambient temperature (°C)			Number of stages		Limitations		
150000			-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". One operating cycle means 0-1-0.		
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
–		0,64	–	220	20	200000	1	AC	1	1
–		0,65	–	380	20	200000	1	AC	1	1
AC-23		–	–	500	45	94000	1	AC	3	3
AC-22		–	–	500	63	50000	1	AC	3	3
AC-23		–	–	690	22,40	150000	1	AC	3	3
–		–	50	60	2	100000	1	DC	1	1
–		–	55	110	1,50	75000	1	DC	1	1
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					
Shock / Vibration										
Type of oscillation					Values					
Resistance to vibration					Min. 4g, 2-100Hz, 1,6mm					
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)	
									12,70	
Clearance										
									Distance (mm)	
									12,70	
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

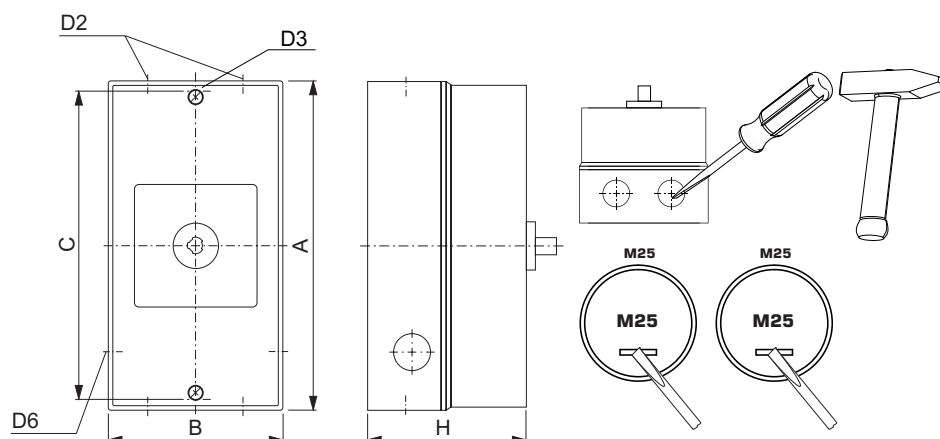
 WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

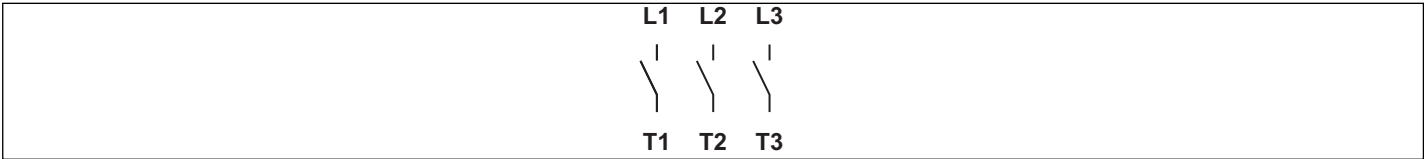
Mounting-KL11V



IP - Code front side		IP66, IP67, IP69k
Stages		1,00 - 5,00
A	H	190,00 mm
B	H	100,00 mm
C	H	178,00 mm
D2	Ø	4,00 x M25
D3	Ø	5,60 mm
D6	Ø	2,00 x M25
H	H	93,00 mm


Wiring diagram

KG64.T303.KL11V



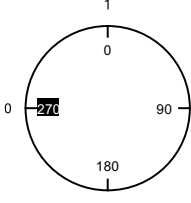

Switch program

KG64.T303.KL11V



Kraus & Naimer

KG64
T303
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Face Plate									
		L1	L2	L3					
		1	3	5	7	9	11	13	15
									
Switching Angle 90 Total switching Angle 90		2	4	6	8	10	12	14	16
		T1	T2	T3					
0	270								
1	0								
	90								
	180								

Version: 102

Face plate

S1.F656/C10.V9

