



Sample image

Datasheet

Article number: 70011881

Designation: KG20B.T106/D-A046.KL11V

Description: Switch

	VDE 0660 Teil 107						
Rated insulation voltage Ui							
			Voltage (V) AC / D	С			
Rated uninterrupted current lu/lth			690 AC				
	mbient temperature (°C)	Poak tomporatur	e (°C) additional re	auirements			
25	50	r cak temperatur			during 24 hours v	vith peaks up to +55°C	
Rated operational current le			oo / mibioni ton	porataro : oo o :	adming 2 :ou.o :	nui pouno up to 100 0	
Utilization category				Vo	Itage (V)		Current (
AC-32A					20 - 400		
Rated operational power							
Utilization category		Voltage (V)	N	o. of phases		No. of poles	Power (k
AC-3		220 - 240		3		3	
AC-3		380 - 440		3		3	5,
AC-3		660 - 690		3		3	5,
AC-23A		220 - 240		3		3	5,
AC-23A		380 - 440		3		3	7,
AC-23A		660 - 690		3		3	7,
Max Fuse Rating IEC					M75		O
Fuse characteristic					No. of Fu	ises 1	Current (
gG						<u> </u>	;
UL60947-4-1 , UL508							
Nominal Voltage							
			Voltage (V) AC / D	С			
			600 AC				
Rated insulation voltage Ui							
rtatea modiation voltage of			V-4 (1) 40 /D	0			
rated modulation voltage of			Voltage (V) AC / D	С			
•			Voltage (V) AC / D 600 AC	С			
Rated thermal current	Current (A		600 AC		tura (°C) Addition	inal Tayt	
•	Current (A	(A)	600 AC	C Ambient tempera		nal Text	
Rated thermal current	Current (A 2	(A)	600 AC		ture (°C) Additio	nal Text	
Rated thermal current Horsepower rating		(A)	600 AC			nal Text Power (HP)	Ambient temperature [
Rated thermal current Horsepower rating Across-the-Line Motor Starting		(A)	600 AC	Ambient tempera	0 - 40		
Rated thermal current Horsepower rating Across-the-Line Motor Starting DOL		(A)	600 AC Voltage (V)	Ambient tempera	0 - 40 No. of poles	Power (HP)	
Rated thermal current Horsepower rating Across-the-Line Motor Starting DOL DOL		(A)	Voltage (V) 110 - 120	Ambient tempera No. of phases 1	0 - 40 - No. of poles 2	Power (HP)	
Horsepower rating Across-the-Line Motor Starting DOL DOL		(A)	Voltage (V) 110 - 120 220 - 240	Ambient tempera No. of phases 1	0 - 40 No. of poles 2 2	Power (HP) 1 3	
Horsepower rating Across-the-Line Motor Starting DOL DOL DOL DOL DOL DOL		(A)	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480	Ambient tempera No. of phases 1 1 1 1	0-40 No. of poles 2 2 2 2 2 2	Power (HP) 1 3 3 5 5	
Rated thermal current Horsepower rating Across-the-Line Motor Starting DOL DOL DOL DOL DOL DOL DOL DOL DOL		(A)	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600	Ambient tempera No. of phases 1 1 1 1 1	0-40 No. of poles 2 2 2 2 2 2 2 2 2	Power (HP) 1 3 3 5 5 5	
Horsepower rating Across-the-Line Motor Starting DOL		(A)	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120	Ambient tempera No. of phases 1 1 1 1 1 3	0-40 No. of poles 2 2 2 2 2 2 2 3	Power (HP) 1 3 3 5 5 5 2	
Horsepower rating Across-the-Line Motor Starting DOL		(A)	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 200 - 240	Ambient tempera 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) 1 3 3 5 5 5 2 7,50	
Rated thermal current Horsepower rating Across-the-Line Motor Starting DOL		(A)	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 200 - 240 415 - 415	No. of phases 1 1 1 1 3 3 3	0-40 No. of poles 2 2 2 2 2 2 3 3 3 3	Power (HP) 1 3 3 5 5 5 7,50 10	
Horsepower rating Across-the-Line Motor Starting DOL		(A)	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 200 - 240 415 - 415 440 - 480	No. of phases 1 1 1 1 1 3 3 3 3 3	0-40 No. of poles 2 2 2 2 2 2 3 3 3 3 3	Power (HP) 1 3 3 5 5 5 2 7,50 10 15	
Rated thermal current Horsepower rating Across-the-Line Motor Starting DOL		(A)	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 200 - 240 415 - 415	No. of phases 1 1 1 1 3 3 3	0-40 No. of poles 2 2 2 2 2 2 3 3 3 3	Power (HP) 1 3 3 5 5 5 7,50 10	
Horsepower rating Across-the-Line Motor Starting DOL		(A)	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 200 - 240 415 - 415 440 - 480	No. of phases 1 1 1 1 1 3 3 3 3 3	0-40 No. of poles 2 2 2 2 2 2 3 3 3 3 3	Power (HP) 1 3 3 5 5 5 2 7,50 10 15	
Horsepower rating Across-the-Line Motor Starting DOL		(A)	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 200 - 240 415 - 415 440 - 480	No. of phases 1 1 1 1 1 3 3 3 3 3	0-40 No. of poles 2 2 2 2 2 2 3 3 3 3 3	Power (HP) 1 3 3 5 5 5 2 7,50 10 15	
Horsepower rating Across-the-Line Motor Starting DOL		(A)	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 200 - 240 415 - 415 440 - 480	No. of phases 1 1 1 1 1 3 3 3 3 3	0-40 No. of poles 2 2 2 2 2 2 3 3 3 3 3	Power (HP) 1 3 3 5 5 5 2 7,50 10 15	
Rated thermal current Horsepower rating Across-the-Line Motor Starting DOL		(A)	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 200 - 240 415 - 415 440 - 480	No. of phases 1 1 1 1 1 3 3 3 3 3	0-40 No. of poles 2 2 2 2 2 2 3 3 3 3 3	Power (HP) 1 3 3 5 5 5 2 7,50 10 15	
Horsepower rating Across-the-Line Motor Starting DOL	2	5	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 200 - 240 415 - 415 440 - 480 550 - 600	No. of phases No. of phases 1 1 1 1 3 3 3 3	No. of poles 2 2 2 2 2 3 3 3 3 3 3	Power (HP) 1 3 3 5 5 5 2 7,50 10 15 20	
Rated thermal current Horsepower rating Across-the-Line Motor Starting DOL	ircuits capable of delivering no	ot more than 10kA rms s	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 200 - 240 415 - 415 440 - 480 550 - 600	No. of phases 1 1 1 1 3 3 3 3 3 3 es, 600V ac max.	No. of poles 2 2 2 2 2 3 3 3 3 3 when protected	Power (HP) 1 3 3 5 5 5 2 7,50 10 15 20	
Horsepower rating Across-the-Line Motor Starting DOL	ircuits capable of delivering no	ot more than 10kA rms s	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 200 - 240 415 - 415 440 - 480 550 - 600	No. of phases 1 1 1 1 3 3 3 3 3 3 es, 600V ac max.	No. of poles 2 2 2 2 2 3 3 3 3 3 when protected	Power (HP) 1 3 3 5 5 5 2 7,50 10 15 20	
Horsepower rating Across-the-Line Motor Starting DOL	ircuits capable of delivering not	ot more than 10kA rms s	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 200 - 240 415 - 415 440 - 480 550 - 600	No. of phases 1 1 1 1 3 3 3 3 3 3 es, 600V ac max., when protect	No. of poles 2 2 2 2 2 2 3 3 3 3 3 3 when protected	Power (HP) 1 3 3 5 5 5 2 7,50 10 15 20	
Horsepower rating Across-the-Line Motor Starting DOL	ircuits capable of delivering no	ot more than 10kA rms s 65000 rms symmetrical	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 200 - 240 415 - 415 440 - 480 550 - 600	No. of phases 1 1 1 1 3 3 3 3 3 3 es, 600V ac max., when protect	No. of poles 2 2 2 2 2 3 3 3 3 3 when protected	Power (HP) 1 3 3 5 5 5 2 7,50 10 15 20	
Horsepower rating Across-the-Line Motor Starting DOL	ircuits capable of delivering not le of delivering not more than to the company of the company o	ot more than 10kA rms s 65000 rms symmetrical	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 200 - 240 415 - 415 440 - 480 550 - 600	No. of phases 1 1 1 1 3 3 3 3 3 3 es, 600V ac max., when protect	No. of poles 2 2 2 2 2 2 3 3 3 3 3 3 when protected ted by 40A Class	Power (HP) 1 3 3 5 5 5 2 7,50 10 15 20	
Horsepower rating Across-the-Line Motor Starting DOL	ircuits capable of delivering note of delivering note of delivering not more than 6	ot more than 10kA rms s 65000 rms symmetrical	Voltage (V) 110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 200 - 240 415 - 415 440 - 480 550 - 600	No. of phases 1 1 1 1 3 3 3 3 3 3 Ces, 600V ac max., when protect	No. of poles 2 2 2 2 2 2 3 3 3 3 3 3 when protected ted by 40A Class	Power (HP) 1 3 3 5 5 5 2 7,50 10 15 20	Ambient temperature [



General Use								
AC / DC Voltage		rrent (A)	No. of phases	No. of poles				No. of contacts in ser
AC AC	600 600	25 25	1 3	2				
General Information	000	25	აა					
Text								
	previously eva	luated in combin	ation with the manual moto	or controllers.			rer, or the operating	handle and position indicating mea
CSA								
Nominal Voltage								
				Voltage (V) AC / DO				
				600 AC				
Rated insulation voltage Ui								
				Voltage (V) AC / DO)			
Rated thermal current				600 AC				
nated thermal carrent		Curren	t (A)	,	Ambient temperatu	re (°C) Addition	al Text	
			25		,	0-40		
Horsepower rating								
Across-the-Line Motor Starting	1			Voltage (V)	•	No. of poles	Power (HP)	Ambient temperature [
DOL				110 - 120	1	2	1	
DOL				220 - 240	1	2	3	
DOL				277 - 277	1	2	3	
DOL DOL				415 - 415 440 - 480	1 1	2	5 5	
DOL				550 - 600	1	2	5	
DOL				110 - 120	3	3	2	
DOL				220 - 240	3	3	7,50	
DOL				415 - 415	3	3	10	
DOL				440 - 480	3	3	15	
DOL				550 - 600	3	3	20	
Pilot duty rating code								
Duty Code								
A600 Temp. rating of wire								
remp. rading of wire	Te	emperature rating	(°C)		Curr	ent (A) Text		
		, , , , , , , , , ,	75					
General Use								
AC / DC Voltage		rrent (A)	No. of phases	No. of poles	3			No. of contacts in ser
AC	277	25	1	1				
AC	600	25	1	2				
AC	600	25	3	3	3			
GENERAL TECHNICAL	INFORMA	TION						
Tightening torque of screws								
			tightening t					tightening torque (lb
Stripping length				1,25				
ourpping length			Le	ength (mm)				
					PINGLENGTH			
Size of conductor								
		Min	M l	No of con	d	Cross section	(mm²) or	Adadamia Lafaka suda
composition of conductor flexible wire			Max. value	No. of con	ductor per termina	AWG/kcmil) AWG 10		Material of the wire
flexible wire		Max. Max						Copper
Single-core or stranded wire		Max. Max.				4mm² 6mm²		Copper
Single-core or stranded wire		Max.				AWG 10		Copper
flexible wire with sleeve		Max.				4mm²		Copper
Approbations								
Specification								Mark
								rı
EAC								El
								C
CE marking								
								1.1
UK Directives								ט
								(
CSA C.22.2 No.14								
								(0)
GB/T14048.3								GBITI
Recommended screw driver								GD TP
Type of screw driver				Value				
Cross Screwdriver				PH2				
Slot screwdriver according to	DIN 5264			0,8x4				
General Information								
Text								
EMC Note: This device is suit	able for use in	environment A a	nd B.					
zino mote. milo democ io can								



General Information

Text

- 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)

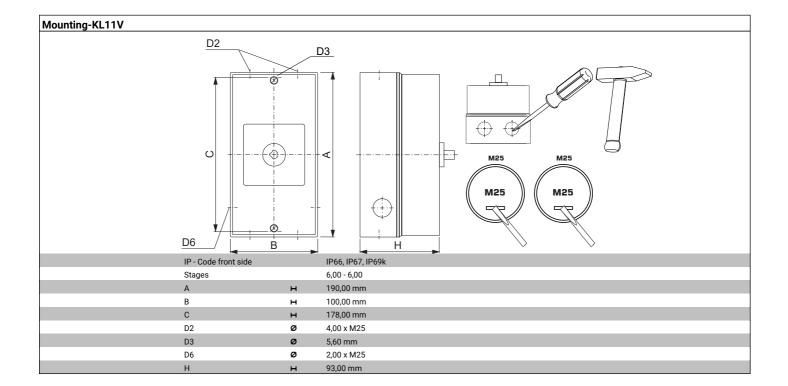
Picture name Description

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

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 KG20B.T306.KL11V

1L1 1L2 1L3 2L1 2L2 2L3 1T1 1T2 1T3 2T1 2T2 2T3

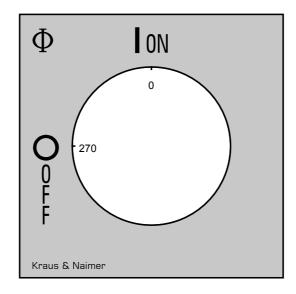


Switch program KG20B.T306.KL11V

Traus & N	laimer	KG2	OOP	T306			Daga	1 of 1
Face Plate		NG2	 	1306	l	1	Page	1 of 1
race Plate	1L1 1	1L2 3	1L3 5	2L1 7	2L2 9	2L3 11	13	15
0 90	\'		!	\'	!	\	13	15
Switching Angle 90	2	4	6	8	10	12	14	16
Total switching Angle 90	1T1 270	1T2	1T3	2T1	2T2	2T3		
1	0 1							
1	180							



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

IEC 60947-3 EN 60947	7-3, VDE 0660 Teil 10	7			
Nominal Voltage			M-H (1) AO (DO		
			Voltage (V) AC / DC 500 AC		
Rated uninterrupted current lo	. /lal-		690 AC		
Current (A)	Ambient temperature (°C)	Peak temperatur	e (°C) additional requirements		
10	55	reak temperatur	60 Ambient temperature +55°C dui	ing 24 hours with pook	vs.up.to.±60°C
16	55		60 Ambient temperature +55°C dui		
Rated operational current le	33		00 Ambient temperature +33 C dui	ing 24 nours with pear	(S up to +00 C
Utilization category			Volta	ge (V)	Current (A)
AC-15) - 240	2,50
AC-15				- 440	1,50
AC-15			300	500	1,30
AC-21A				500	10
					10
UL60947-4-1, UL508					
Nominal Voltage					
			Voltage (V) AC / DC		
			600 AC		
Rated insulation voltage Ui			1/ 1/ 00 10 /00		
			Voltage (V) AC / DC		
			600 AC		
Rated thermal current	0		A b : t + t -	(90) A - - + T+	
	Curi	rent (A) 10		re (°C) Additional Text 0 - 40	
Pilot duty rating code		10		0 - 40	
Duty Code					
A600					
General Use					
AC / DC Voltag	e (V) Current (A)	No. of phases	No. of poles		No. of contacts in series
AC / DC Voltag	600 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		No. or comacts in series
					<u>'</u>
GENERAL TECHNICAL	INFORMATION				
Tightening torque of screws					
		tightening to	. , ,		tightening torque (lb-in)
			0,60		5
Stripping length					
		Le	ength (mm)		
			6 STRIPPINGLENGTH		
Size of conductor			,		
composition of conductor	Adin	. / Max. value	No. of conductor per terminal	Cross section (mm²)	or Material of the wire
solid wire	Min		•	0.5mm ²	Copper
solid wire	Min			0.5mm²	Copper
flexible wire	Min			0.75mm²	
flexible wire	Min			0.75mm ² 0.75mm ²	Copper
					Copper
flexible wire	Max			AWG 16	Copper
flexible wire	Max			1.5mm²	Copper
Single-core or stranded wire	Max	ζ.	2	AWG 14	Copper



Size of conductor				
composition of conductor	Min. / Max. value	No. of conductor per terminal	Cross section (mm²) or (AWG/kcmil)	Material of the wire
Single-core or stranded wire	Max.	2	1.5mm²	Copper
flexible wire with ferrule according to DIN 46228	Max.	2	1mm²	Copper
flexible wire with ferrule according to DIN 46228	Min.	1	0.5mm²	Copper
flexible wire with ferrule according to DIN 46228	Min.	2	0.5mm²	Copper
Recommended screw driver				
Type of screw driver		Value		
Cross Screwdriver		PH1		
Slot screwdriver according to DIN 5264		0,6x3,5		
General Information				
Text				
- Do not lubricate or treat contacts.				
- Switches may only be mounted, connected and set	into operation by qualified persons according	g to the accepted rules of tech	nnology.	
- Use copper wire only. Do not coat the wire end with			3,	
13 21	•			
\' 7				
14 22				