



Sample image

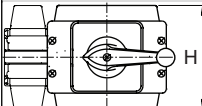
Datasheet

Article number: 70022536
Description: Other Component
Contact development: T304
Face plate engraving: F656
Type of mounting: KS51V

Type Size: S00
Classification Contact: Rigid contact bridge
Classification Contact Mat: Silver
Classification Terminal: Screw terminal

IEC 60947-3 EN 60947-3, VDE 0660 Teil 107									
Номинальное напряжение изоляции Ui									
Напряжение (В) Переменный ток/Постоянный ток									
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	
Номинальный длительный ток Iu/Ith									
Сила тока (А)		Температура окружающей среды (°C)		Пиковое значение температуры (°C)		Дополнительные требования			
25		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 Mounting size	
25		35		40		Ambient temperature +35°C during 24 hours with peaks up to +40°C		-- -- --	
Номинальный рабочий ток Ie									
Категория применения				Напряжение (диапазон) (В)				Сила тока (А)	
AC-32A				20 - 400				20	
AC-20A				690				25	
AC-21A				20 - 690				25	
AC-22A				220 - 500				20	
AC-22A				660 - 690				20	
Номинальная рабочая мощность									
Категория применения		Напряжение (диапазон) (В)		Количество фаз		Количество полюсов		Мощность (кВт)	
AC-3		220 - 240		3		3		4	
AC-3		380 - 440		3		3		5,50	
AC-3		500 - 500		3		3		5,50	
AC-3		660 - 690		3		3		5,50	
AC-3		220 - 240		1		2		2,20	
AC-3		380 - 440		1		2		3,70	
AC-23A		220 - 240		3		3		5,50	
AC-23A		380 - 440		3		3		7,50	
AC-23A		500 - 500		3		3		7,50	
AC-23A		660 - 690		3		3		7,50	
AC-23A		220 - 240		1		2		3	
AC-23A		380 - 440		1		2		5	
Максимальный номинал предохранителя по IEC									
Характеристика предохранителя				Количество предохранителей				Сила тока (А)	
gG				1				35	
Rated conditional short-circuit current									
Current (kA)			Text		cut-off current Ic (kA)			Durchlassenergie I²t (kA²s)	
15			--		3,50			5,62	
Rated breaking capacity									
Voltage (V)				Current (A) Utilization category / UL (DOL)					
220 - 240				180 --					
380 - 440				180 --					
660 - 690				125 --					
Rated short-circuit making capacity Icm									
									Current (A)
									1000
UL60947-4-1 , UL508									
Nominal Voltage									
Voltage (V) AC / DC									
600 AC									

Номинальное напряжение изоляции Ui					
Напряжение (В) Переменный ток/Постоянный ток					
600 AC					
Rated thermal current					
Current (A)		Ambient temperature (°C)		Additional Text	
25		0 - 40		--	
Horsepower rating					
Across-the-Line Motor Starting		Voltage (V)	No. of phases	No. of poles	Power (HP)
DOL		110 - 120	1	2	1
DOL		220 - 240	1	2	3
DOL		277 - 277	1	2	3
DOL		415 - 415	1	2	5
DOL		440 - 480	1	2	5
DOL		550 - 600	1	2	5
DOL		110 - 120	3	3	2
DOL		200 - 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					
SCCR / Max. fuse rating					
Conditions of acceptability					
Suitable for use on a circuit capable of delivering not more than 5 kA Amperes, 600 Volts dc max. when protected by Class RK5 fuses (rated 600Vdc/max. 25A).					
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 at 600V max., when protected by 40A Class J fuses.					
Temp. rating of wire					
Temperature rating (°C)		Current (A)		Text	
60 - 75		--		--	
Connecting instructions					
Markings					
For use on a flat surface of a type 1 enclosure.					
The operating handle and position indicating means to be used with these industrial switches should be provided from the manufacturer.					
General Use					
AC / DC	Voltage (V)	Current (A)	No. of phases	No. of poles	No. of contacts in series
AC	277	25	1	1	1
AC	600	25	1	2	1
AC	600	25	3	3	1
Suitable as Motor disconnect					
Yes/No					
Y					
Общая информация					
Текст					
- When intended for use as switch used in Photovoltaic applications the devices shall be provided with a method of being locked in the OFF-position.					
- 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					
Номинальное напряжение изоляции Ui					
Напряжение (В) Переменный ток/Постоянный ток					
600 AC					
Rated thermal current					
Current (A)		Ambient temperature (°C)		Additional Text	
25		0 - 40		--	
Horsepower rating					
Across-the-Line Motor Starting		Voltage (V)	No. of phases	No. of poles	Power (HP)
DOL		110 - 120	1	2	1
DOL		220 - 240	1	2	3
DOL		277 - 277	1	2	3
DOL		415 - 415	1	2	5
DOL		440 - 480	1	2	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					
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	25	1	1	1

General Use						
AC / DC	Voltage (V)	Current (A)	No. of phases	No. of poles	No. of contacts in series	
AC	600	25	1	2	1	
AC	600	25	3	3	1	
MASTER DATA						
Max. number of stages						
			number of stages	Modul		
			4 KO			
Switch Measures						
Picture name	B	F	H	H1	H2	H3
	--	--	54	--	--	--
ОСНОВНАЯ ТЕХНИЧЕСКАЯ ИНФОРМАЦИЯ						
Момент затяжки винтов						
			Момент затяжки (Нм)		Момент затяжки (фунт-дюйм)	
			1,25		11	
Stripping length						
			Length (mm) --			
			9 STRIPPINGLENGTH			
Minimal ratings (voltage/current)						
Voltage (V)	Current (mA)	Environment conditions		Environment conditions 2	Environment conditions 3	
20	5	Ambient air must be free of particular contamination with sulfur and/or sulfurous components such as H2S etc.		In case extraordinary contamination with dust is expected an adequate dust protection is required.	--	
Rated short-time withstand current Icw						
			Time (s)	Current (A)		
			1	350		
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.	1		0,75mm²	Copper	
solid wire	Min.	2		0,5mm²	Copper	
flexible wire	Min.	2		0,75mm²	Copper	
flexible wire	Max.	1		AWG 10	Copper	
flexible wire	Max.	1		4mm²	Copper	
flexible wire	Min.	1		1,5mm²	Copper	
Single-core or stranded wire	Max.	1		6mm²	Copper	
Single-core or stranded wire	Max.	1		AWG 10	Copper	
flexible wire with sleeve	Max.	1		4mm²	Copper	
flexible wire with ferrule according to DIN 46228	Min.	1		0,75mm²	Copper	
flexible wire with ferrule according to DIN 46228	Min.	2		0,5mm²	Copper	
Approbations						
Specification				Marking		
EAC						
CE marking						
UK Directives						
Lloyd's Register EMEA						
IEC 60947-3; EN 60947-3; VDE 0660 Teil107				IEC 60947-3 EN 60947-3		
UL 60947-4-1; CSA C22.2 No. 60947-4-1						
CSA C.22.2 No.14						
GB/T14048.3						
Russian Maritime Register of Shipping						
Power loss per pole						
			Power (W)			
			0,70			
Mechanical life						
No. of operations		Ambient temperature (°C)		Number of stages	Limitations	
200000		-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".	

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
–	0,59	–	220	10	200000	1 AC		1	1
–	0,64	–	220	20	200000	1 AC		1	1
–	0,65	–	380	5	200000	1 AC		1	1
–	0,64	–	380	10	200000	1 AC		1	1
–	0,64	–	380	15	200000	1 AC		1	1
–	0,65	–	380	20	175000	1 AC		1	1
AC-23	–	–	440	15,50	100000	1 AC		3	3
–	–	50	24	1	200000	1 DC		1	1
–	–	50	48	1	200000	1 DC		1	1
–	–	55	110	1	200000	1 DC		1	1
–	–	55	220	0,50	100000	1 DC		1	1

Рекомендуемая отвертка

Тип отвертки	Value
Крестовая отвёртка	PH2
Шлицевая отвёртка	0,8x1,2

Degree of protection

IP - Код клемма выключателя
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

Общая информация

Текст

- EMC Note: This device is suitable for use in environment A and B.
- Не смазывайте и не разбирайте контакты.
- Переключатели могут быть установлены, подключены и введены в эксплуатацию только квалифицированным персоналом в соответствии с принятыми техническими правилами.
- Используйте только медные провода. Не покрывать конец провода оловом.
- Клеммы с заводскими перемычками затянуты в процессе производства. Во время откручивания скреплённых перемычками клемм проследите, что бы перемычки не потерялись. После подключения все винты клемм должны быть затянуты с рекомендуемым моментом затяжки винта.
- Для устройств с блокирующимися ручками: положения ручки этих устройств должны быть промаркированы для проведения нормальной работы.
- Положение "ВКЛ" и "ВЫКЛ" может быть отмечено символами "I" и "O" в соответствии с IEC60417, символы 5007 и 5008.

Creepage distance

Distance (mm)
12,70

Clearance

Distance (mm)
12,70

Further Pictures

Picture Purpose	Picture Name	H010/A, H010/C	H010/B
	Mounting Bauform	1NO + 1NC	2x 1NO + 1NC
		33 41 34 42	33 41 53 61 34 42 54 62
		31 43 32 44	31 43 51 63 32 44 52 64

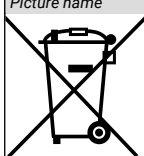
Technical Data according to UL Specifications		Auxiliary Contacts KG20 - KG4B	Auxiliary Contacts KG80 - KG105C
Rated Voltage	V A . C.	600	600
Ampere Rating	A	10	10
Type of wire	-	Use 60/75°C copper wire only	Use 75°C copper wire only
Temperature rating of wire	°C	60/75	75
Torque value for field wiring terminals	lb-in. Nm	-	-

AUX.CONT.

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

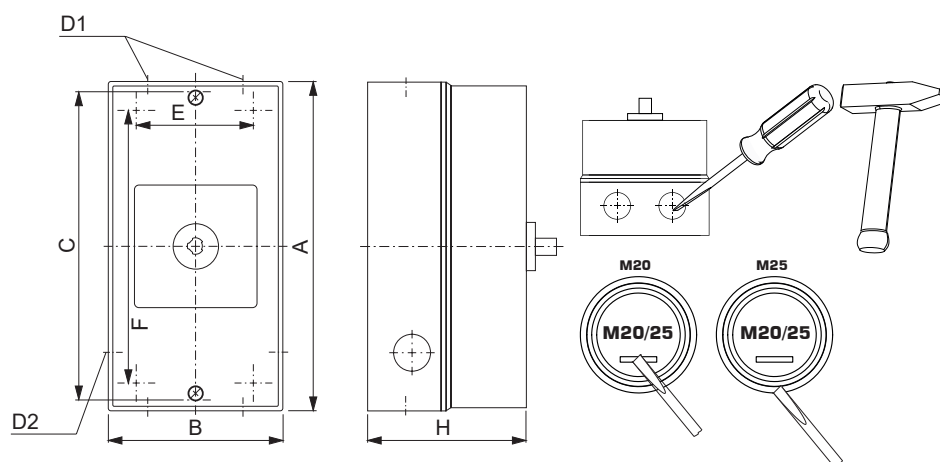
Proposition 65

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.

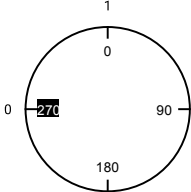
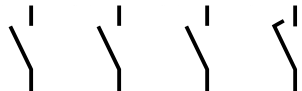
Mounting-KS51V



IP - Код лицевая сторона	IP66, IP67, IP69k
Stages	1,00 - 5,00
A	121,00 mm
B	86,00 mm
C	110,00 mm
D1	4,00 x M20/M25
D2	2,00 x M20
H	90,00 mm

Wiring diagram

KG20.T304.KS51V

 Kraus & Naimer		KG20		T304		Page 1 of 1			
Face Plate 		L1 1	L2 3	L3 5	N 7	9	11	13	15
									
Switching Angle 90 Total switching Angle 90		2 T1	4 T2	6 T3	8 N	10	12	14	16
0	270								
1	0								
	90								
	180								

Version: 94

Face plate

S1.F656/E10.V9

