



Sample image

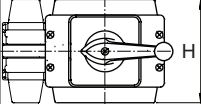
Datasheet

Article number: 70022536
Designation: KG20.T204/33.KS51V
Description: Switch Global Disconnecter
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						
Märkdriftspänning Ui						
			Spänning (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
Märkdriftström vid konstant drift						
Ström (A)		Omgivningstemperatur (°C)	Temperatur topp (°C) ytterligare krav			
25		50	55 Omginingstemperatur +50°C under 24 timmar med toppar upp till +55°C			
Conventional enclosed thermal current Ithe						
Ström (A)	Omgivningstemperatur (°C)	Temperatur topp (°C)	Additional requirements		No. of stages (from - to)	Mounting
25	35	40	Omginingstemperatur +35°C under 24 timmar med toppar upp till +40°C		--	--
Märkdriftström Ie						
Urvals kriterie			Spänning (V)			Ström (A)
AC-32A			20 - 400			20
AC-20A			690			25
AC-21A			20 - 690			25
AC-22A			220 - 500			20
AC-22A			660 - 690			20
Märkdrifteffekt						
Urvals kriterie		Spänning (V)	No. of phases	No. of poles	Effekt (kW)	
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	
Max försäkring, IEC						
Säkringskaraktäristik			Antal säkringar			Ström (A)
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						
			Spänning (V)	Ström (A)	Utilization category / UL (DOL)	
			220 - 240	180	--	
			380 - 440	180	--	
			660 - 690	125	--	
Kortslutningshållfasthet Icm						
						Ström (A)
						1000
UL60947-4-1 , UL508						
Nominal Voltage						
			Spänning (V) AC / DC			
			600 AC			

Märkdriftspänning Ui					
Spänning (V) AC / DC					
600 AC					
Rated thermal current					
Ström (A)		Omgivningstemperatur (°C)		Additional Text	
25		0 - 40		--	
Horsepower rating					
Across-the-Line Motor Starting		Spänning (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)		Ström (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	Spänning (V)	Ström (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					
General Information					
Text					
- 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.					
- När brytaren används som säkerhetsbrytare skall den vara utrustad med vred som är låsbart i läge "0".					
CSA					
Nominal Voltage					
Spänning (V) AC / DC					
600 AC					
Märkdriftspänning Ui					
Spänning (V) AC / DC					
600 AC					
Rated thermal current					
Ström (A)		Omgivningstemperatur (°C)		Additional Text	
25		0 - 40		--	
Horsepower rating					
Across-the-Line Motor Starting		Spänning (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)		Ström (A)		Text	
75		--		--	
General Use					
AC / DC	Spänning (V)	Ström (A)	No. of phases	No. of poles	No. of contacts in series
AC	277	25	1	1	1

General Use						
AC / DC	Spänning (V)	Ström (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	--	--	--
GENERAL TECHNICAL INFORMATION						
Tightening torque of screws						
			tightening torque (Nm)	tightening torque (lb-in)		
			1,25	11		
Stripping length						
			Length (mm) --			
			9 STRIPPINGLENGTH			
Minimal ratings (voltage/current)						
Spänning (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)	Ström (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	Omgivningstemperatur (°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)									
Urvals kriterie	cos(φ)	Time constant (ms)	Spänning (V)	Ström (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

Rekomenderad skruvmejsel	
Typ av skruvmejsel	Value
Stjärnskruvmejsel	PH2
Platt skruvmejsel	0,8x1,2

Degree of protection	
Skyddsklass anslutningar, IP	
IP20	

Conditions during transport and storing	
Minimum temperature (°C)	Maximum temperature (°C) ytterligare krav
-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. - Smörjning och behandling av kontakterna är förbjuden. - Inkoppling och service av strömställaren får endast utföras av behörig personal. Strömställaren är underhållsfri. - Använd endast kopparbågar. Kabeln får inte förtennas. - Alla anslutningsskruvar måste dras med rekommenderat moment, även de som inte används då det kan finnas interna överkopplingar. - Strömställare med låsbart vred skall ha tydliga läges markeringar. - "PÅ" och "AV" lägena kan vara märkta med "I" och "O" enligt IEC417 (symboler 5007 och 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
E	33 41 34 42	33 41 53 61 34 42 54 62
VE	31 43 32 44	31 43 51 63 32 44 52 64

Mounting Bauform	1NO + 1NC	2x 1NO + 1NC
E	33 41 34 42	33 41 53 61 34 42 54 62
VE	31 43 32 44	31 43 51 63 32 44 52 64

Technical Data according to UL Specifications

Rated Voltage

Ampere Rating

Type of wire

Temperature rating of wire

Torque value for field wiring terminals

V A . C.

A

-

°C

lb-in.

Nm

Auxiliary Contacts

KG20 - KG64B

600

10

Use 60/75°C copper wire only

60/75

-

Auxiliary Contacts

KG80 - KG105C

600

10

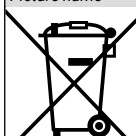
Use 75°C copper wire only

75

-

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

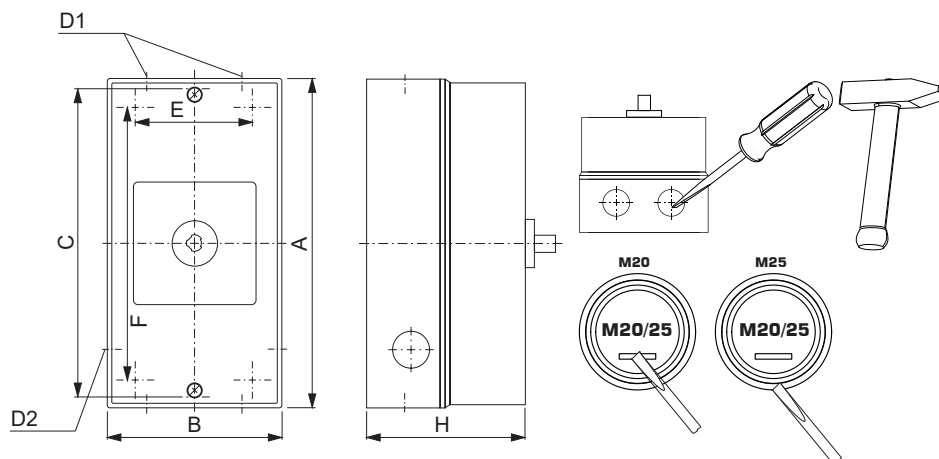
Proposition 65

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

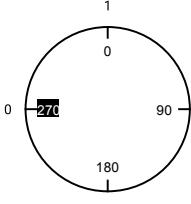
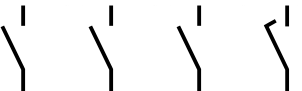


Skyddsklass frontpanel, IP	IP66, IP67, IP69k
Stages	1,00 - 5,00
A	121,00 mm
B	86,00 mm
C	110,00 mm
D1	4,00 x M20/M25
D2	2,00 x M20
H	90,00 mm

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

