



### Sample image

## **Datasheet**

Article number: 70040018

Designation: KG20.T204/D-A044.KL51V

**Description:** Switchgear

Rated insulation voltage Ui							
			Voltage (V) AC / D 690 AC	C			
Rated uninterrupted current lo	ı/lth		690 AC				
Current (A)	Ambient temperature (°	C) Peak temperatu	ıre (°C) additional re	eauirements			
25		50			during 24 hours	with peaks up to +55°C	
Rated operational current le				•		, ,	
Utilization category					Itage (V)		Current (A
AC-32A					20 - 400		2
Rated operational power							
Utilization category AC-3		Voltage (V) 220 - 240	Λ	lo. of phases 3		No. of poles	Power (kl
AC-3		380 - 440		3		3	5,5
AC-3		660 - 690		3		3	5,5
AC-23A		220 - 240		3		3	5,8
AC-23A		380 - 440		3		3	7,5
AC-23A		660 - 690		3		3	7,5
Max Fuse Rating IEC	· · · · · · · · · · · · · · · · · · ·						
Fuse characteristic					No. of F		Current (
gG						1	
UL60947-4-1, UL508							
Nominal Voltage							
			Voltage (V) AC / D	IC .			
			600 AC				
Rated insulation voltage Ui							
			Voltage (V) AC / D 600 AC	C			
Rated thermal current			000 AC				
Nateu tileiiliai cui leiit							
	(	Current (A)		Amhient temnera	ature (°C) Addition	nnal Text	
	(	Current (A)		Ambient tempera	nture (°C) Additio	onal Text	
Horsepower rating	C	Current (A) 25		Ambient tempera		onal Text	
Across-the-Line Motor Starting			Voltage (V)	Ambient tempera	0 - 40 No. of poles	Power (HP)	Ambient temperature [°
Across-the-Line Motor Starting DOL			110 - 120	No. of phases	0 - 40 No. of poles 2	Power (HP)	
Across-the-Line Motor Starting DOL DOL			110 - 120 220 - 240	No. of phases	0 - 40  No. of poles  2 2	Power (HP) 1 3	2
Across-the-Line Motor Starting DOL DOL DOL DOL			110 - 120 220 - 240 277 - 277	No. of phases 1 1	0 - 40  No. of poles  2  2  2	Power (HP) 1 3 3	
Across-the-Line Motor Starting DOL DOL DOL DOL DOL			110 - 120 220 - 240 277 - 277 415 - 415	No. of phases 1 1 1	0 - 40  No. of poles 2 2 2 2 2	Power (HP) 1 3 3 5	
Across-the-Line Motor Starting DOL DOL DOL DOL DOL DOL			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)  1 3 3 5 5	
Across-the-Line Motor Starting DOL DOL DOL DOL DOL DOL DOL			110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600	No. of phases 1 1 1 1 1 1 1	0 - 40  No. of poles 2 2 2 2 2 2 2 2	Power (HP) 1 3 3 5 5 5	
Across-the-Line Motor Starting DOL DOL DOL DOL DOL DOL DOL DOL DOL			110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120	No. of phases 1 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	2 2 2 2 2 4
Across-the-Line Motor Starting DOL			110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120 200 - 240	No. of phases 1 1 1 1 1 1 3 3	0 - 40 -  No. of poles 2 2 2 2 2 2 3 3 3	Power (HP)  1 3 3 5 5 5 2 7,50	4 4 4
Across-the-Line Motor Starting DOL DOL DOL DOL DOL DOL DOL DOL DOL			110 - 120 220 - 240 277 - 277 415 - 415 440 - 480 550 - 600 110 - 120	No. of phases 1 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	
Across-the-Line Motor Starting DOL			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  1  3  3 3	0 - 40 -  No. of poles 2 2 2 2 2 3 3 3 3	Power (HP)  1 3 3 5 5 5 7,50 10	
Across-the-Line Motor Starting DOL			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 1 3 3 3 3 3	0 - 40 -  No. of poles 2 2 2 2 2 3 3 3 3 3	Power (HP)  1 3 3 5 5 5 2 7,50 10 15	
Across-the-Line Motor Starting DOL			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 1 3 3 3 3 3	0 - 40 -  No. of poles 2 2 2 2 2 3 3 3 3 3	Power (HP)  1 3 3 5 5 5 2 7,50 10 15	
Across-the-Line Motor Starting DOL			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 1 3 3 3 3 3	0 - 40 -  No. of poles 2 2 2 2 2 3 3 3 3 3	Power (HP)  1 3 3 5 5 5 2 7,50 10 15	
Across-the-Line Motor Starting DOL			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 1 3 3 3 3 3	0 - 40 -  No. of poles 2 2 2 2 2 3 3 3 3 3	Power (HP)  1 3 3 5 5 5 2 7,50 10 15	
Across-the-Line Motor Starting DOL		25	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 1 3 3 3 3 3 3	0 - 40 -  No. of poles 2 2 2 2 2 2 3 3 3 3 3 3 3	Power (HP)  1 3 3 5 5 5 2 7,50 10 15 20	
Across-the-Line Motor Starting DOL	on circuits capable of del	ivering not more than 10kA rms	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 1 3 3 3 3 3	0 - 40 - 2 No. of poles 2 2 2 2 2 2 2 3 3 3 3 3	Power (HP)  1 3 3 5 5 5 2 7,50 10 15 20	
Across-the-Line Motor Starting DOL	on circuits capable of del	25	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 1 3 3 3 3 3	0 - 40 - 2 No. of poles 2 2 2 2 2 2 2 3 3 3 3 3	Power (HP)  1 3 3 5 5 5 2 7,50 10 15 20	
Across-the-Line Motor Starting DOL	on circuits capable of del pable of delivering not mo	ivering not more than 10kA rms ore than 65000 rms symmetrica	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 1 3 3 3 3 3 3 3 rees, 600V ac max.	0 - 40 -  No. of poles 2 2 2 2 2 2 3 3 3 3 3 3 3 when protected	Power (HP)  1 3 3 5 5 5 2 7,50 10 15 20	
Across-the-Line Motor Starting DOL	on circuits capable of del	ivering not more than 10kA rms ore than 65000 rms symmetrica rating (°C)	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 1 3 3 3 3 3 3 3 rees, 600V ac max.	0 - 40 - 2 No. of poles 2 2 2 2 2 2 2 3 3 3 3 3	Power (HP)  1 3 3 5 5 5 2 7,50 10 15 20	
Across-the-Line Motor Starting DOL	on circuits capable of del pable of delivering not mo	ivering not more than 10kA rms ore than 65000 rms symmetrica	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 1 3 3 3 3 3 3 3 rees, 600V ac max.	0 - 40 - No. of poles 2 2 2 2 2 2 3 3 3 3 3 3 3 when protected	Power (HP)  1 3 3 5 5 5 2 7,50 10 15 20	
Across-the-Line Motor Starting DOL	on circuits capable of del pable of delivering not mo Temperature	ivering not more than 10kA rms ore than 65000 rms symmetrics rating (°C) 60 - 75	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 1 3 3 3 3 3 3 Cres, 600V ac max.	0 - 40 - No. of poles 2 2 2 2 2 2 3 3 3 3 3 3 3 when protected	Power (HP)  1 3 3 5 5 5 2 7,50 10 15 20	
Across-the-Line Motor Starting DOL	on circuits capable of del pable of delivering not mo Temperature	ivering not more than 10kA rms ore than 65000 rms symmetrica rating (°C)	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 1 3 3 3 3 3 3 Cres, 600V ac max.	0 - 40 - No. of poles 2 2 2 2 2 2 3 3 3 3 3 3 3 when protected	Power (HP)  1 3 3 5 5 5 2 7,50 10 15 20	Ambient temperature [* 4 4 4 4 4 4 4 4 4 4 8 8 8 8 No. of contacts in serie
Across-the-Line Motor Starting DOL	on circuits capable of del pable of delivering not mo Temperature e (V) Current (A)	ivering not more than 10kA rms ore than 65000 rms symmetrics rating (°C) 60 - 75  No. of phases	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 1 1 3 3 3 3 3 3 7 res, 600V ac max.	0 - 40 - No. of poles 2 2 2 2 2 2 3 3 3 3 3 3 3 when protected	Power (HP)  1 3 3 5 5 5 2 7,50 10 15 20	

- 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.



General Information						
Text						
- When intended for use as a motor disconnector the	device shall be provided with	th a method of boing looks	ed in the OFF-position	n		
	device shall be provided wi	tir a method or being locke	d iii tile OFF-positio	111.		
CSA						
Nominal Voltage		Voltage (V) AC / L	00			
		600 AC				
Rated insulation voltage Ui		000 A0				
		Voltage (V) AC / E	OC .			
		600 AC				
Rated thermal current						
	Current (A)		Ambient temperatu		nal Text	
Hanaan awan natin n	25			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	1	4
DOL		220 - 240	1	2	3	4
DOL		277 - 277	1	2	3	4
DOL		415 - 415	1	2	5	4
DOL		440 - 480	1	2	5	4
DOL		550 - 600	1	2	5	4
DOL DOL		110 - 120 220 - 240	3	3	2 7,50	41
DOL		415 - 415	3	3	7,50 10	41
DOL		440 - 480	3	3	15	41
DOL		550 - 600	3	3	20	4
Pilot duty rating code						
Duty Code						
A600						
Temp. rating of wire	re rating (°C)		C	ont (A) Toyt		
remperatui	75		Curr	ent (A) Text		
General Use	73					
AC / DC Voltage (V) Current (A)	No. of phase	es No. of pole	es			No. of contacts in series
AC 277 25			1			
AC 600 25			2			
AC 600 25		3	3			<u> </u>
GENERAL TECHNICAL INFORMATION						
Size of conductor						
				Cross section	(mm²) or	
		N		I (AIAIO //:1)	. ( ) 0.	Make at all a fall a contract
composition of conductor	Min. / Max. value	No. of co	nductor per termina	I (AWG/kcmil)	. ( ) 0.	Material of the wire
solid wire	Min.	No. of co	1	I (AWG/kcmil) 0.75mm²	. ( ) 0.	Copper
solid wire solid wire	Min. Min.	No. of co	1	I (AWG/kcmil) 0.75mm² 2 0.5mm²	, (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Copper Copper
solid wire	Min.	No. of co	1 2 2	I (AWG/kcmil) 0.75mm²	, (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Copper
solid wire solid wire flexible wire	Min. Min. Min.	No. of co	1 2 2 1	<ul> <li>(AWG/kcmil)</li> <li>0.75mm²</li> <li>0.5mm²</li> <li>0.75mm²</li> </ul>	. ()	Copper Copper Copper
solid wire solid wire flexible wire flexible wire flexible wire flexible wire	Min. Min. Min. Max. Max. Min.	No. of co	1 2 2 1 1 1	<ul> <li>(AWG/kcmil)</li> <li>0.75mm²</li> <li>0.5mm²</li> <li>0.75mm²</li> <li>AWG 10</li> <li>4mm²</li> <li>1.5mm²</li> </ul>	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Copper Copper Copper Copper Copper Copper Copper
solid wire solid wire flexible wire flexible wire flexible wire flexible wire Single-core or stranded wire	Min. Min. Min. Max. Max. Min. Max.	No. of co	1 2 2 1 1 1 1	<ul> <li>I (AWG/kcmil)</li> <li>0.75mm²</li> <li>0.5mm²</li> <li>0.75mm²</li> <li>0.75mm²</li> <li>AWG 10</li> <li>4mm²</li> <li>1.5mm²</li> <li>6mm²</li> </ul>	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Copper Copper Copper Copper Copper Copper Copper Copper Copper
solid wire solid wire flexible wire flexible wire flexible wire flexible wire flexible wire Single-core or stranded wire Single-core or stranded wire	Min. Min. Min. Max. Max. Min. Min. Max. Min. Max.	No. of co	1 2 2 1 1 1 1 1	<ul> <li>I (AWG/kcmil)</li> <li>0.75mm²</li> <li>0.5mm²</li> <li>0.75mm²</li> <li>0.75mm²</li> <li>AWG 10</li> <li>4mm²</li> <li>1.5mm²</li> <li>6mm²</li> <li>AWG 10</li> </ul>	((,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Copper
solid wire solid wire flexible wire flexible wire flexible wire flexible wire flexible wire Single-core or stranded wire Single-core or stranded wire flexible wire with sleeve	Min. Min. Min. Max. Max. Min. Max. Min. Max. Max. Max.	No. of co	1 2 2 1 1 1 1 1	<ul> <li>(AWG/kcmil)</li> <li>0.75mm²</li> <li>0.5mm²</li> <li>0.75mm²</li> <li>AWG 10</li> <li>4mm²</li> <li>1.5mm²</li> <li>6mm²</li> <li>AWG 10</li> <li>4mm²</li> </ul>	((,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Copper
solid wire solid wire flexible wire flexible wire flexible wire flexible wire flexible wire Single-core or stranded wire Single-core or stranded wire flexible wire with sleeve flexible wire with ferrule according to DIN 46228	Min. Min. Max. Max. Min. Max. Min. Max. Max. Max. Max. Max. Max. Min.	No. of co	1 2 2 2 1 1 1 1 1	I (AWG/kcmil) 0.75mm² 2 0.5mm² 2 0.75mm² AWG 10 4mm² 1.5mm² 6mm² AWG 10 4mm² 0.75mm²	(()	Copper
solid wire solid wire flexible wire flexible wire flexible wire flexible wire flexible wire Single-core or stranded wire Single-core or stranded wire flexible wire with sleeve flexible wire with ferrule according to DIN 46228 flexible wire with ferrule according to DIN 46228	Min. Min. Min. Max. Max. Min. Max. Min. Max. Max. Max.	No. of co	1 2 2 2 1 1 1 1 1	<ul> <li>(AWG/kcmil)</li> <li>0.75mm²</li> <li>0.5mm²</li> <li>0.75mm²</li> <li>AWG 10</li> <li>4mm²</li> <li>1.5mm²</li> <li>6mm²</li> <li>AWG 10</li> <li>4mm²</li> </ul>	(()	Copper
solid wire solid wire flexible wire flexible wire flexible wire flexible wire flexible wire Single-core or stranded wire Single-core or stranded wire flexible wire with sleeve flexible wire with ferrule according to DIN 46228	Min. Min. Max. Max. Min. Max. Min. Max. Max. Max. Max. Max. Max. Min.	No. of co	1 2 2 2 1 1 1 1 1	I (AWG/kcmil) 0.75mm² 2 0.5mm² 2 0.75mm² AWG 10 4mm² 1.5mm² 6mm² AWG 10 4mm² 0.75mm²	((,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Copper
solid wire solid wire flexible wire flexible wire flexible wire flexible wire flexible wire Single-core or stranded wire Single-core or stranded wire flexible wire with sleeve flexible wire with ferrule according to DIN 46228 flexible wire with ferrule according to DIN 46228	Min. Min. Max. Max. Min. Max. Min. Max. Max. Max. Max. Max. Max. Min.		1 2 2 2 1 1 1 1 1	I (AWG/kcmil) 0.75mm² 2 0.5mm² 2 0.75mm² AWG 10 4mm² 1.5mm² 6mm² AWG 10 4mm² 0.75mm²	((,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Copper
solid wire solid wire flexible wire flexible wire flexible wire flexible wire flexible wire Single-core or stranded wire Single-core or stranded wire flexible wire with sleeve flexible wire with ferrule according to DIN 46228 flexible wire with ferrule according to DIN 46228	Min. Min. Max. Max. Min. Max. Min. Max. Max. Max. Max. Max. Max. Min.		1 2 2 2 1 1 1 1 1	I (AWG/kcmil) 0.75mm² 2 0.5mm² 2 0.75mm² AWG 10 4mm² 1.5mm² 6mm² AWG 10 4mm² 0.75mm²	((,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Copper
solid wire solid wire flexible wire flexible wire flexible wire flexible wire flexible wire Single-core or stranded wire Single-core or stranded wire flexible wire with sleeve flexible wire with ferrule according to DIN 46228 flexible wire with ferrule according to DIN 46228	Min. Min. Max. Max. Min. Max. Min. Max. Max. Max. Max. Max. Max. Min.	Length (mm)	1 2 2 2 1 1 1 1 1	I (AWG/kcmil) 0.75mm² 2 0.5mm² 2 0.75mm² AWG 10 4mm² 1.5mm² 6mm² AWG 10 4mm² 0.75mm²		Copper
solid wire solid wire flexible wire flexible wire flexible wire flexible wire flexible wire flexible wire Single-core or stranded wire Single-core or stranded wire flexible wire with sleeve flexible wire with ferrule according to DIN 46228 flexible wire with ferrule according to DIN 46228 Stripping length  Recommended screw driver Type of screw driver	Min. Min. Max. Max. Min. Max. Min. Max. Max. Max. Max. Max. Max. Min.	Length (mm) - 9Value	1 2 2 2 1 1 1 1 1 1 1 1 2 2	I (AWG/kcmil) 0.75mm² 2 0.5mm² 2 0.75mm² AWG 10 4mm² 1.5mm² 6mm² AWG 10 4mm² 0.75mm²		Copper
solid wire solid wire flexible wire flexible wire flexible wire flexible wire flexible wire Single-core or stranded wire Single-core or stranded wire flexible wire with sleeve flexible wire with ferrule according to DIN 46228 flexible wire with ferrule according to DIN 46228 Stripping length  Recommended screw driver Type of screw driver Cross Screwdriver	Min. Min. Max. Max. Min. Max. Min. Max. Max. Max. Max. Max. Max. Min.	Length (mm) 9 Value PH2	1 2 2 2 1 1 1 1 1 1 1 1 2 2	I (AWG/kcmil) 0.75mm² 2 0.5mm² 2 0.75mm² AWG 10 4mm² 1.5mm² 6mm² AWG 10 4mm² 0.75mm²		Copper
solid wire solid wire flexible wire flexible wire flexible wire flexible wire flexible wire Single-core or stranded wire Single-core or stranded wire flexible wire with sleeve flexible wire with ferrule according to DIN 46228 flexible wire with ferrule according to DIN 46228 Stripping length  Recommended screw driver Type of screw driver Cross Screwdriver Slot screwdriver according to DIN 5264	Min. Min. Max. Max. Min. Max. Min. Max. Max. Max. Max. Max. Max. Min.	Length (mm) - 9Value	1 2 2 2 1 1 1 1 1 1 1 1 2 2	I (AWG/kcmil) 0.75mm² 2 0.5mm² 2 0.75mm² AWG 10 4mm² 1.5mm² 6mm² AWG 10 4mm² 0.75mm²		Copper
solid wire solid wire flexible wire flexible wire flexible wire flexible wire flexible wire Single-core or stranded wire Single-core or stranded wire flexible wire with sleeve flexible wire with ferrule according to DIN 46228 flexible wire with ferrule according to DIN 46228 Stripping length  Recommended screw driver Type of screw driver Cross Screwdriver	Min. Min. Max. Max. Min. Max. Max. Min. Max. Min. Min. Min. Min. Min.	Length (mm) 9L Value PH2 0,8x4	1 2 2 2 1 1 1 1 1 1 1 1 2 2	I (AWG/kcmil) 0.75mm² 2 0.5mm² 2 0.75mm² AWG 10 4mm² 1.5mm² 6mm² AWG 10 4mm² 0.75mm²		Copper
solid wire solid wire flexible wire flexible wire flexible wire flexible wire flexible wire Single-core or stranded wire Single-core or stranded wire flexible wire with sleeve flexible wire with ferrule according to DIN 46228 flexible wire with ferrule according to DIN 46228 Stripping length  Recommended screw driver Type of screw driver Cross Screwdriver Slot screwdriver according to DIN 5264	Min. Min. Max. Max. Min. Max. Max. Min. Max. Min. Min. Min. Min. Min.	Length (mm) 9 Value PH2 0,8x4	1 2 2 2 1 1 1 1 1 1 1 1 2 2	I (AWG/kcmil) 0.75mm² 2 0.5mm² 2 0.75mm² AWG 10 4mm² 1.5mm² 6mm² AWG 10 4mm² 0.75mm²		Copper topper Copper topper Copper Copper
solid wire solid wire flexible wire flexible wire flexible wire flexible wire flexible wire Single-core or stranded wire Single-core or stranded wire flexible wire with sleeve flexible wire with ferrule according to DIN 46228 flexible wire with ferrule according to DIN 46228 Stripping length  Recommended screw driver Type of screw driver Cross Screwdriver Slot screwdriver according to DIN 5264	Min. Min. Max. Max. Min. Max. Max. Min. Max. Min. Min. Min. Min. Min.	Length (mm) 9L Value PH2 0,8x4	1 2 2 2 1 1 1 1 1 1 1 1 2 2	I (AWG/kcmil) 0.75mm² 2 0.5mm² 2 0.75mm² AWG 10 4mm² 1.5mm² 6mm² AWG 10 4mm² 0.75mm²		Copper
solid wire solid wire flexible wire flexible wire flexible wire flexible wire flexible wire flexible wire Single-core or stranded wire Single-core or stranded wire flexible wire with sleeve flexible wire with ferrule according to DIN 46228 flexible wire with ferrule according to DIN 46228 Stripping length  Recommended screw driver Type of screw driver Cross Screwdriver Slot screwdriver according to DIN 5264 Tightening torque of screws	Min. Min. Max. Max. Min. Max. Max. Min. Max. Min. Min. Min. Min. Min.	Length (mm) 9 Value PH2 0,8x4	1 2 2 2 1 1 1 1 1 1 1 1 2 2	I (AWG/kcmil) 0.75mm² 2 0.5mm² 2 0.75mm² AWG 10 4mm² 1.5mm² 6mm² AWG 10 4mm² 0.75mm²		Copper topper Copper topper Copper Copper
solid wire solid wire flexible wire flexible wire flexible wire flexible wire flexible wire Single-core or stranded wire Single-core or stranded wire flexible wire with sleeve flexible wire with ferrule according to DIN 46228 flexible wire with ferrule according to DIN 46228 Stripping length  Recommended screw driver Type of screw driver Cross Screwdriver Slot screwdriver according to DIN 5264 Tightening torque of screws	Min. Min. Max. Max. Min. Max. Max. Min. Max. Min. Min. Min. Min. Min.	Length (mm) 9 Value PH2 0,8x4	1 2 2 2 1 1 1 1 1 1 1 1 2 2	I (AWG/kcmil) 0.75mm² 2 0.5mm² 2 0.75mm² AWG 10 4mm² 1.5mm² 6mm² AWG 10 4mm² 0.75mm²		Copper Topper Copper Copper Topper To
solid wire solid wire flexible wire flexible wire flexible wire flexible wire flexible wire flexible wire Single-core or stranded wire Single-core or stranded wire Flexible wire with sleeve flexible wire with ferrule according to DIN 46228 flexible wire with ferrule according to DIN 46228 Stripping length  Recommended screw driver Type of screw driver Cross Screwdriver Slot screwdriver according to DIN 5264 Tightening torque of screws  Approbations Specification	Min. Min. Max. Max. Min. Max. Max. Min. Max. Min. Min. Min. Min. Min.	Length (mm) 9 Value PH2 0,8x4	1 2 2 2 1 1 1 1 1 1 1 1 2 2	I (AWG/kcmil) 0.75mm² 2 0.5mm² 2 0.75mm² AWG 10 4mm² 1.5mm² 6mm² AWG 10 4mm² 0.75mm²		Copper Topper Copper Copper Topper To
solid wire solid wire flexible wire flexible wire flexible wire flexible wire flexible wire Single-core or stranded wire Single-core or stranded wire flexible wire with sleeve flexible wire with ferrule according to DIN 46228 flexible wire with ferrule according to DIN 46228 Stripping length  Recommended screw driver Type of screw driver Cross Screwdriver Slot screwdriver according to DIN 5264 Tightening torque of screws	Min. Min. Max. Max. Min. Max. Max. Min. Max. Min. Min. Min. Min. Min.	Length (mm) 9 Value PH2 0,8x4	1 2 2 2 1 1 1 1 1 1 1 1 2 2	I (AWG/kcmil) 0.75mm² 2 0.5mm² 2 0.75mm² AWG 10 4mm² 1.5mm² 6mm² AWG 10 4mm² 0.75mm²		Copper Topper Copper Copper Topper To
solid wire solid wire flexible wire flexible wire flexible wire flexible wire flexible wire flexible wire Single-core or stranded wire Single-core or stranded wire Flexible wire with sleeve flexible wire with ferrule according to DIN 46228 flexible wire with ferrule according to DIN 46228 Stripping length  Recommended screw driver Type of screw driver Cross Screwdriver Slot screwdriver according to DIN 5264 Tightening torque of screws  Approbations Specification	Min. Min. Max. Max. Min. Max. Max. Min. Max. Min. Min. Min. Min. Min.	Length (mm) 9 Value PH2 0,8x4	1 2 2 2 1 1 1 1 1 1 1 1 2 2	I (AWG/kcmil) 0.75mm² 2 0.5mm² 2 0.75mm² AWG 10 4mm² 1.5mm² 6mm² AWG 10 4mm² 0.75mm²		Copper Topper Copper Copper Topper To
solid wire solid wire flexible wire flexible wire flexible wire flexible wire flexible wire flexible wire Single-core or stranded wire Single-core or stranded wire Flexible wire with sleeve flexible wire with ferrule according to DIN 46228 flexible wire with ferrule according to DIN 46228 Stripping length  Recommended screw driver Type of screw driver Cross Screwdriver Slot screwdriver according to DIN 5264 Tightening torque of screws  Approbations Specification	Min. Min. Max. Max. Min. Max. Max. Min. Max. Min. Min. Min. Min. Min.	Length (mm) 9 Value PH2 0,8x4	1 2 2 2 1 1 1 1 1 1 1 1 2 2	I (AWG/kcmil) 0.75mm² 2 0.5mm² 2 0.75mm² AWG 10 4mm² 1.5mm² 6mm² AWG 10 4mm² 0.75mm²		Copper Topper Copper Copper Topper To
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#### 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.

### Waste Electrical & Electronic Equipment (WEEE)

Picture nar

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

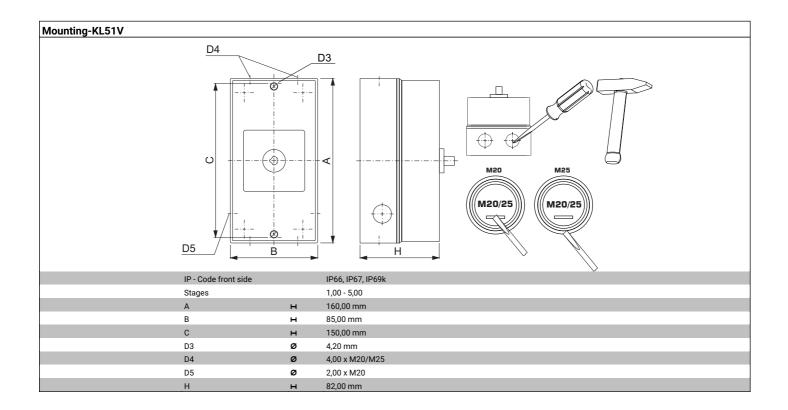
Picture name

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

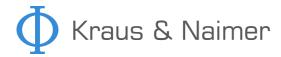
Classification Terminal: Screw terminal



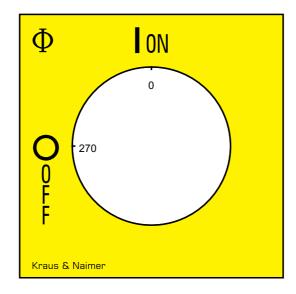


# Wiring diagram KG20.T304.KL51V

L1	L2	L3	N	
	\	\	\ \	
T1	T2	Т3	N	



# Face plate S1.F656/E10.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

	E 0660 Teil 107				
Nominal Voltage		Voltage (	V) AC/DC		
			00 AC		
			00 AC		
Rated uninterrupted current lu/lth		0.2	NO AC		
·	nt temperature (°C)	Peak temperature (°C) ad	ditional requirements		
10	55		nbient temperature +55°C dur	ng 24 hours with peaks up	to +60°C
16	55		nbient temperature +55°C dur		
Rated operational current le					
Itilization category			Volta		Current
AC-15				- 240	2
AC-15			380	- 440	1,
AC-15				500	
AC-21A				500	
JL60947-4-1 , UL508					
Nominal Voltage					
			V) AC/DC		
		60	00 AC		
Rated insulation voltage Ui					
			V) AC/DC		
		60	00 AC		
Rated thermal current	- (1)			(-1)	
	Current (A)			e (°C) Additional Text	
Pilot duty rating code	10			0 - 40	
General Use AC / DC Voltage (V)	Current (A)	No. of phases N	lo. of poles 1		No. of contacts in ser
AC 600 GENERAL TECHNICAL INFOR	10		•		No. of contacts in ser
General Use           AC / DC         Voltage (V)           AC         600           GENERAL TECHNICAL INFOR           Size of conductor	10 RMATION	1	1	Cross section (mm²) or	
General Use AC / DC Voltage (V) AC 600 GENERAL TECHNICAL INFOR Size of conductor composition of conductor	10  RMATION  Min. / Max.	1	1  No. of conductor per terminal	(AWG/kcmil)	Material of the wire
General Use AC / DC Voltage (V) AC 600 GENERAL TECHNICAL INFOR Size of conductor composition of conductor solid wire	10  RMATION  Min. / Max. Min.	1	1  No. of conductor per terminal 1	(AWG/kcmil) 0.5mm²	Material of the wire Copper
General Use AC / DC Voltage (V) AC 600 GENERAL TECHNICAL INFOR Size of conductor composition of conductor solid wire solid wire	Min. / Max. Min. Min. Min.	1	No. of conductor per terminal 1 2	(AWG/kcmil) 0.5mm² 0.5mm²	Material of the wire Copper Copper
General Use AC / DC Voltage (V) AC 600 GENERAL TECHNICAL INFOR Size of conductor composition of conductor solid wire solid wire dexible wire	Min. / Max. Min. Min. Min. Min. Min.	1	No. of conductor per terminal  1 2 1	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm²	Material of the wire Copper Copper Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFOR  Size of conductor  composition of conductor  solid wire  lexible wire  flexible wire	Min. / Max. Min. Min. Min. Min. Min. Min. Min.	1	No. of conductor per terminal 1 2 1 2 1 2	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm²	Material of the wire Copper Copper Copper Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFOR  Size of conductor  composition of conductor  solid wire  flexible wire  flexible wire  flexible wire	Min. / Max. Min. Min. Min. Min. Min. Min. Min. Min	1	No. of conductor per terminal  1 2 1 2 2 2	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16	Material of the wire Copper Copper Copper Copper Copper Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFOR  Size of conductor  composition of conductor  solid wire elexible wire lexible wire lexible wire elexible wire elexible wire elexible wire	Min. / Max. Min. Min. Min. Min. Min. Min. Min. Min	1	No. of conductor per terminal  1 2 1 2 2 2 2 2	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² 4WG 16 1.5mm²	Material of the wire Copper Copper Copper Copper Copper Copper Copper
General Use AC / DC Voltage (V) AC 600 GENERAL TECHNICAL INFOR Size of conductor composition of conductor solid wire lexible wire flexible core or stranded wire	Min. / Max. Min. Min. Min. Min. Min. Min. Max. Max. Max. Max.	1	No. of conductor per terminal 1 2 1 2 2 2 2 2 2	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16 1.5mm² AWG 14	Material of the wire Copper Copper Copper Copper Copper Copper Copper Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFOR  Size of conductor  composition of conductor  solid wire  flexible wire  flexible wire  flexible wire  flexible wire  Single-core or stranded wire  Single-core or stranded wire	Min. / Max. Min. Min. Min. Min. Min. Max. Max. Max. Max. Max. Max.	1	No. of conductor per terminal  1 2 1 2 2 2 2 2 2 2	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² 4WG 16 1.5mm² 4WG 14 1.5mm²	Material of the wire Copper Copper Copper Copper Copper Copper Copper Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFOR  Size of conductor  composition of conductor  solid wire  flexible wire  flexible wire  flexible wire  Single-core or stranded wire  Single-core or stranded wire  flexible wire with ferrule according to Di	Min. / Max. Min. Min. Min. Min. Min. Max. Max. Max. Max. Max. Max. Max. Max	1	No. of conductor per terminal 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² 4WG 16 1.5mm² 4WG 14 1.5mm²	Material of the wire Copper
General Use AC / DC Voltage (V) AC 600  GENERAL TECHNICAL INFOR Size of conductor composition of conductor solid wire flexible wire with ferrule according to Diffexible wire with ferrule with ferrule with ferrule with ferrule with the with ferrule wi	Min. / Max. Min. Min. Min. Min. Min. Min. Max. Max. Max. Max. Max. Max. Max. Max	1	No. of conductor per terminal  1 2 1 2 2 2 2 2 2 2 1	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² 4WG 16 1.5mm² 4WG 14 1.5mm² 1.5mm² 0.5mm²	Material of the wire Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFOREST of conductor  composition of conductor  solid wire elexible wire with ferrule according to Dielexible wire with ferrule according	Min. / Max. Min. Min. Min. Min. Min. Min. Max. Max. Max. Max. Max. Max. Max. Max	1	No. of conductor per terminal  1 2 1 2 2 2 2 2 2 2 1	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² 4WG 16 1.5mm² 4WG 14 1.5mm²	Material of the wire Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFOREST of conductor  composition of conductor  solid wire elexible wire with ferrule according to Dielexible wire with ferrule according	Min. / Max. Min. Min. Min. Min. Min. Min. Max. Max. Max. Max. Max. Max. Max. Max	value	No. of conductor per terminal  2  1  2  2  2  2  2  2  1  2  2	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² 4WG 16 1.5mm² 4WG 14 1.5mm² 1.5mm² 0.5mm²	Material of the wire Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFORED Size of conductor composition of conductor colid wire colid wire lexible wire with ferrule according to Dilexible wire with ferrule according t	Min. / Max. Min. Min. Min. Min. Min. Min. Max. Max. Max. Max. Max. Max. Max. Max	value  Length (mn	No. of conductor per terminal  2  1  2  2  2  2  2  2  1  2  2	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² 4WG 16 1.5mm² 4WG 14 1.5mm² 1.5mm² 0.5mm²	Material of the wire Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFORE  Size of conductor  composition of conductor  solid wire  lexible wire  lexible wire  lexible wire  lexible wire  single-core or stranded wire  single-core or stranded wire  lexible wire with ferrule according to Di  Stripping length	Min. / Max. Min. Min. Min. Min. Min. Min. Max. Max. Max. Max. Max. Max. Max. Max	value  Length (mn	No. of conductor per terminal  2  1  2  2  2  2  2  1  2  2  1  1  2  1  2  2	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² 4WG 16 1.5mm² 4WG 14 1.5mm² 1.5mm² 0.5mm²	Material of the wire Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFOR  Size of conductor  composition of conductor  solid wire  lexible wire with ferrule according to Di  lexible mire with ferrule according to Di  Stripping length	Min. / Max. Min. Min. Min. Min. Min. Min. Max. Max. Max. Max. Max. Max. Max. Max	value  Length (mn	No. of conductor per terminal  2  1  2  2  2  2  2  1  2  2  1  1  2  1  2  2	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² 4WG 16 1.5mm² 4WG 14 1.5mm² 1.5mm² 0.5mm²	Material of the wire Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFOR  Size of conductor  composition of conductor  solid wire flexible core or stranded wire	Min. / Max. Min. Min. Min. Min. Min. Min. Max. Max. Max. Max. Max. Max. Max. Max	value  Length (mn	No. of conductor per terminal  1 2 1 2 2 2 2 2 2 2 1 2 7 1 2	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² 4WG 16 1.5mm² 4WG 14 1.5mm² 1.5mm² 0.5mm²	Material of the wire Copper
General Use  AC / DC Voltage (V)  AC 600  GENERAL TECHNICAL INFORESize of conductor  composition of conductor  solid wire elexible wire elexible wire elexible wire lexible wire with ferrule according to DI	Min. / Max. Min. Min. Min. Min. Min. Max. Max. Max. Max. Max. Max. Max. Max	value  Length (mn	No. of conductor per terminal  1 2 1 2 2 2 2 2 2 2 1 1 2 Value	(AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² 4WG 16 1.5mm² 4WG 14 1.5mm² 1.5mm² 0.5mm²	Material of the wire Copper



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