



Sample image

KG20

Classification Contact: Rigid contact bridge Classification Contact Mat: Silver Classification Terminal: Screw terminal Contact development: T306 Type of mounting: VE Reference number: KG20 T106/NL-EXBA KNBOX (70022634)

IEC 60947-3 EN 60947-3, VDE 0660 Teil 107

	47-3, VDL 0000 Tell 107						
Rated insulation voltage Ui							
		Voltage	(V) AC	/ DC			
			690 AC				
Rated uninterrupted current	lu/lth						
Current (A)	Ambient temperature (°C)	Peak temperature (°C)	additiona	l requirements			
25	50	55	Ambient	temperature +50°C	during 24 hours	with peaks up to +55°	0
Rated operational current le							
Utilization category				Volta	age (V)		Current (A)
AC-32A				2	0 - 400		20
Rated operational power							
Utilization category	Voltage (V)	No. of pha	ises	No. o	f poles	Power (kV	V) Current (A)
AC-3	220 - 240		3		3		4
AC-3	380 - 440		3		3	5,5	50 11,50
AC-3	660 - 690		3		3	5,5	50 -
AC-23A	220 - 240		3		3	5,5	
AC-23A	380 - 440		3		3	7,5	50 15,50
AC-23A	660 - 690		3		3	7,5	50
Max. Fuse rating IEC							
Fuse characteristic					No. of Fu	ses	Current (A)
gG						1	35
UL60947-4-1 , UL508	3						
Horsepower rating							
Across-the-Line Motor Startin	ng	Vo	oltage (V)	No. of phases	No. of poles	Power (HP)	Ambient temperature [°C]
DOL		:	200 - 240	3	3	7,50	40
SCCR / Max. fuse rating							
Conditions of acceptability							
This device is suitable for us	e on circuits capable of delivering not n	nore than 10kA rms symm	netrical amp	peres, 600V ac max	when protecte	d by Type RK1 fuses.	
	capable of delivering not more than 650	000 rms symmetrical amp	eres at 600	V max., when protec	cted by 40A Cla	ss J fuses.	
Temp. rating of wire							
	Temperature rating (°C)			Curr	ent (A) Text		

Temperature rating (°C)	Current (A) Text
60 - 75	
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 disconnector the device shall be provided with a method of being locked in the OFF-position.

Nominal Voltage					
Voltag	ge (V)	AC/DC			
	600	AC			
Rated insulation voltage Ui					
Voltag	ge (V) .	AC/DC			
	600	AC			
Rated thermal current					
Current (A)		Ambient tempera	ture (°C) Add	itional Text	
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 - 12	20 1	2	1	40



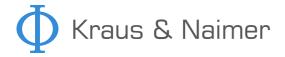
Datasheet

Assess the Line Mate - Otanting			Valtaria (10)	No of alterna	No. of	Deuver (UD)	Amphienttennent
Across-the-Line Motor Starting			Voltage (V)	No. of phases	poles	Power (HP)	Ambient temperature [°C
DOL			220 - 240	1	2	3	4
OOL			277 - 277	1	2	3	4
OOL			415 - 415	1	2	5	4
OOL			440 - 480	1	2	5	4
DOL			550 - 600	1	2	5	4
DOL			110 - 120	3	3	2	4
DOL			415 - 415	3	3	10	4
DOL			440 - 480	3	3	15	4
DOL			550 - 600	3	3	20	4
Pilot duty rating code							
Duty Code							
A600							
General Use				_	_	_	
	Current (A)	No. of phases	No. of pole				No. of contacts in serie
AC 277	25	1		1			
AC 600	25	1		2			
AC 600	25	3		3			
CSA							
lorsepower rating							
Across-the-Line Motor Starting			Voltage (V)	No. of phases	No. of	Power (HP)	Ambient temperature [°C
Ĵ					poles		
DOL .	_		220 - 240	3	3	7,50	4
Temp. rating of wire	Tomonoroturo	rating (°C)		Curren	t (A) Taxt		
1	Temperature	75		Curren	ot (A) Text		
GENERAL TECHNICAL INFORM	MATION						
	_				Cross secti	on (mm²) or	
		Min. / Max. value	No. of co	nductor per terminal	Cross secti (AWG/kcm	on (mm²) or il)	Material of the wire
composition of conductor		<i>Min. / Max. value</i> Min.	No. of co	nductor per terminal 1	Cross secti (AWG/kcm 0.75mm²	on (mm²) or I)	Material of the wire Copper
composition of conductor Solid wire			No. of co		(AWG/kcm	on (mm²) or i)	
composition of conductor Solid wire Solid wire		Min.	No. of co	1	(AWG/kcm 0.75mm ²	on (mm²) or I)	Copper
composition of conductor Solid wire Solid wire Flexible wire		Min. Min.	No. of co	1	(AWG/kcm 0.75mm ² 0.5mm ²	on (mm²) or i)	Copper Copper
composition of conductor Solid wire Solid wire Flexible wire Flexible wire		Min. Min. Min.	No. of co	1 2 2	(AWG/kcm) 0.75mm ² 0.5mm ² 0.75mm ²	on (mm²) or i)	Copper Copper Copper
composition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire		Min. Min. Min. Max.	No. of co	1 2 2 1	(AWG/kcm) 0.75mm ² 0.5mm ² 0.75mm ² AWG 10	on (mm²) or i)	Copper Copper Copper Copper
composition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Flexible wire		Min. Min. Min. Max. Max.	No. of co	1 2 2 1 1	(AWG/kcm) 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ²	on (mm²) or I)	Copper Copper Copper Copper Copper
composition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Flexible wire Single-core or stranded wire		Min. Min. Max. Max. Max. Min.	No. of co	1 2 2 1 1 1	(AWG/kcm) 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² 1.5mm ²	on (mm²) or 1)	Copper Copper Copper Copper Copper Copper
composition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Flexible wire Single-core or stranded wire Single-core or stranded wire		Min. Min. Max. Max. Min. Max.	No. of co	1 2 1 1 1 1	(AWG/kcm) 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² 1.5mm ² 6mm ²	on (mm²) or I)	Copper Copper Copper Copper Copper Copper Copper Copper
composition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Flexible wire Single-core or stranded wire Single-core or stranded wire Flexible wire with sleeve	N 46228	Min. Min. Max. Max. Min. Max. Max.	No. of co	1 2 2 1 1 1 1 1	(AWG/kcm. 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² 1.5mm ² 6mm ² AWG 10	on (mm²) or I)	Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper
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Size of conductor composition of conductor Solid wire Solid 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 Flexible wire with ferrule according to DIN Stripping length		Min. Min. Max. Max. Min. Max. Max. Max. Max. Min. Min.	ength (mm)	1 2 2 1 1 1 1 1 1 1 1	(AWG/kcm) 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² 1.5mm ² 6mm ² AWG 10 4mm ² 0.75mm ²	on (mm²) or I)	Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper
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 Waste Electroical & 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



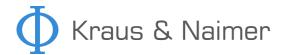
Proposition 65 Picture name

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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

Description



Datasheet

Wiring diagram KG20.T306.VE

1L1 1L2 1L3 2L1 2L2 2L3

 $\left\langle \right\rangle$ $\left\langle \right\rangle$ $\langle \rangle$ \langle 1T1 1T2 1T3 2T1 2T2 2T3



M510A-1

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 60947-3, VDE 0660 Teil 107

Nominal Voltage			40 40 (20		
		Voltage	.,		
			500 AC 590 AC		
Rated uninterrupted current lu/Ith		0	190 AC		
Current (A) Ambient temperature	(°C) Peak temperatu		additional requirements		
10	55	60	Ambient temperature +55°C du	ring 24 hours with neaks up to	+60°C
16	55	60	Ambient temperature +55°C du	• • •	
Rated operational current le		00			
Utilization category			Voltage	e (V)	Current
AC-15			110 -	240	2
AC-15			380 -	440	1
AC-15				500	
AC-21A				500	
UL60947-4-1 , UL508					
Vominal Voltage					
		Voltage	(V) AC/DC		
			600 AC		
Rated insulation voltage Ui					
		Voltage	(V) AC/DC		
		6	600 AC		
Rated thermal current		_			
	Current (A)		Ambient temperature	(°C) Additional Text	
Duty Code A600	10		0	- 40 -	
Duty Code A600 General Use AC / DC Voltage (V) Current (A)	No. of phases		No. of poles	- 40	No. of contacts in ser
Duty Code A600 General Use AC / DC Voltage (V) Current (A) AC 600 10	_		_	- 40 -	No. of contacts in ser
Duty Code A600 General Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION	No. of phases		No. of poles	- 40	No. of contacts in ser
Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION Size of conductor	No. of phases		No. of poles	Cross section (mm²) or	No. of contacts in ser Material of the wire
Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION Size of conductor composition of conductor	No. of phases 1 Min. / Max. value		No. of poles 1 No. of conductor per terminal	Cross section (mm²) or (AWG/kcmil)	Material of the wire
Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION Size of conductor composition of conductor Solid wire	No. of phases 1 Min. / Max. value Min.		No. of poles 1 No. of conductor per terminal 1	Cross section (mm²) or (AWG/kcmil) 0.5mm²	Material of the wire Copper
Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION Size of conductor composition of conductor Solid wire Solid wire	No. of phases 1 <i>Min. / Max. value</i> Min. Min.		No. of poles 1 No. of conductor per terminal 1 2	Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm²	<i>Material of the wire</i> Copper Copper
Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION Size of conductor composition of conductor Solid wire Solid wire Flexible wire	No. of phases 1 <i>Min. / Max. value</i> Min. Min. Min.		No. of poles 1 No. of conductor per terminal 1 2 1	Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm²	<i>Material of the wire</i> Copper Copper Copper Copper
Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION Size of conductor Solid wire Solid wire Flexible wire Flexible wire	No. of phases 1 <i>Min. / Max. value</i> Min. Min. Min. Min.		No. of poles 1 No. of conductor per terminal 1 2 1 2	Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm²	<i>Material of the wire</i> Copper Copper Copper Copper Copper
Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 SENERAL TECHNICAL INFORMATION Size of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire	No. of phases 1 <i>Min. / Max. value</i> Min. Min. Min. Min. Min. Min.		No. of poles 1 No. of conductor per terminal 1 2 1	Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16	<i>Material of the wire</i> Copper Copper Copper Copper Copper Copper
Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 SENERAL TECHNICAL INFORMATION Size of conductor Solid wire Solid wire So	No. of phases 1 <i>Min. / Max. value</i> Min. Min. Min. Min.		No. of poles 1 No. of conductor per terminal 1 2 1 2 2	Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm²	<i>Material of the wire</i> Copper Copper Copper Copper Copper
Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION Size of conductor Size of conductor Solid wire Solid wire Solid wire Solid wire Solid wire Solid wire Stable wire Solid wire Solid wire Solid wire Solid w	No. of phases 1 <i>Min. / Max. value</i> Min. Min. Min. Min. Min. Max. Max.		No. of poles 1 No. of conductor per terminal 1 2 1 2 2 2 2	Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16 1.5mm²	<i>Material of the wire</i> Copper Copper Copper Copper Copper Copper Copper
Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 SENERAL TECHNICAL INFORMATION Size of conductor Size of conductor somposition of conductor Solid wire Solid wire Solid wire Solid wire Solid wire Stexible wire Solid wire Solid wire Solid wire	No. of phases 1 Min. / Max. value Min. Min. Min. Min. Min. Max. Max. Max. Max.		No. of poles 1 No. of conductor per terminal 1 2 1 2 2 2 2 2 2	Cross section (mm²) or (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 Copper
Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 Seneral Use 600 10 Seneral Use 600 10 Seneral Use 50 50 Solid wire 50 50 Selid wire 50 50 Sing	No. of phases 1 1 <i>Min. / Max. value</i> Min. Min. Min. Min. Max. Max. Max. Max. Max.		No. of poles 1 No. of conductor per terminal 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2	Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16 1.5mm² AWG 14 1.5mm²	Material of the wire Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper
Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 Seneral Use 600 10 Seneral Use 600 10 Seneral Use Seneral Use 10 Sen	No. of phases 1 1 <i>Min. / Max. value</i> Min. Min. Min. Min. Max. Max. Max. Max. Max. Max. Max. Max		No. of poles 1 No. of conductor per terminal 1 2 1 2 2 2 2 2 2 2 1	Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16 1.5mm² AWG 14 1.5mm² 0.5mm²	Material of the wire Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper
Duty Code A600 General Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION Size of conductor Composition of conductor Solid wire Flexible wire Flexible wire Flexible wire Single-core or stranded wire Flexible wire with ferrule according to DIN 46228	No. of phases 1 Min. / Max. value Min. Min. Min. Min. Max. Max. Max. Max. Max. Max. Max. Max		No. of poles 1 No. of conductor per terminal 1 2 1 2 2 2 2 2 2 2 1 2 2 2 1 2 2 2 2	Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16 1.5mm² AWG 14 1.5mm² 0.5mm² 0.5mm² 1.5mm²	Material of the wire Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper
Duty Code A600 General Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION Size of conductor Size of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Single-core or stranded wire Single-core or stranded wire Single-core or stranded wire Flexible wire with ferrule according to DIN 46228 Flexible wire with ferrule according to DIN 46228 Flexible wire with ferrule according to DIN 46228	No. of phases 1 Min. / Max. value Min. Min. Min. Min. Max. Max. Max. Max. Min. Max. Min.	.ength (m	No. of poles 1 No. of conductor per terminal 1 2 1 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16 1.5mm² AWG 14 1.5mm² 0.5mm² 0.5mm² 1.5mm²	Material of the wire Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper
Duty Code A600 General Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION Size of conductor Solid wire Soli	No. of phases 1 Min. / Max. value Min. Min. Min. Min. Max. Max. Max. Max. Min. Max. Min.		No. of poles 1 No. of conductor per terminal 1 2 1 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16 1.5mm² AWG 14 1.5mm² 0.5mm² 0.5mm² 1.5mm²	Material of the wire Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper
Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION Size of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Flexible wire Flexible wire Flexible wire Single-core or stranded wire Flexible wire th ferrule according to DIN 46228 Flexible wire with ferrule according to DIN 46228 Flexible wire with ferrule according to DIN 46228 Flexible wire flexible wire with ferrule according to DIN 46228 Flexible wire with ferrule according to DIN 46228 Flexible wire with flexible wire flexible wire wire flexible wire with flexible wire wire flexible wire	No. of phases 1 Min. / Max. value Min. Min. Min. Min. Max. Max. Max. Max. Min. Max. Min.		No. of poles 1 No. of conductor per terminal 1 2 1 2 2 2 2 1 2 2 1 2 2 2 1 2 2 2 2 1 2 2 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16 1.5mm² AWG 14 1.5mm² 0.5mm² 0.5mm² 1.5mm²	Material of the wire Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper
, . , , , , , , , , , , , , , , , ,	No. of phases 1 Min. / Max. value Min. Min. Min. Min. Max. Max. Max. Max. Min. Max. Min.		No. of poles 1 No. of conductor per terminal 1 2 1 2 2 2 2 1 2 2 1 2 2 1 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16 1.5mm² AWG 14 1.5mm² 0.5mm² 0.5mm² 1.5mm²	Material of the wire Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper



Recommended screw driver		
Type of screw driver	Value	
Slot screwdriver according to DIN 5264	0,6x3,5	
Tightening torque of screws		
	tightening torque (Nm)	tightening torque (lb-in)
	0,60	5
General Information		

Text

- Use only copper wires with or without tinned/silver-plated individual wires. Soldering the end of the wire before wiring is not allowed.

- Terminals with factory fitted jumper links are tightened during production for loss prevention. When opening the terminal clamps, make sure that no factory fitted links get lost and that all wire connections are properly seated.

- After wiring, ALL terminal screws must be tightened to the specified torque values.

- 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.

M510A-1	AUXILIARY CONTACTS (cam operated) for switch type KG20 - KG100C and KH(R)16 - KH(R))25B
K0 M510	2CA-B	

13	21	
h'	7	
14	22	