



Kraus & Naimer

BLUE LINE switchgear

since 1907

Switch Disconnectors for *Photovoltaic Systems*



**NOW EVEN
BIGGER RANGE**

Detailed information relating
to application, rating, mounting
and correct installation

For free expert advice and
technical help call our team

01635 262626

www.krausnaimer.co.uk

DC SWITCH-DISCONNECTOR SELECTION TABLES - UTILISATION CATEGORY DC-21B

SINGLE STRING

Page	450V	500V	650V	800V	920V	1000V	Order code
2	25A	21A	20A	18A	11A		KG20 T104/D-P003 KL51V
2	28A	28A	25A	23A	15A	12A	KG32 T104/D-P003 KL51V
2	40A						KG41 T104/D-P003 KL11V
3				21A		20A	KG20B T106/D-P003 KL11V
3			27A	27A		25A	KG32B T106/D-P003 KL11V
3		40A	40A	28A			KG41B T106/D-P003 KL11V
4						26A	KG32B T108/D-P003 KL11V
4					40A	35A	KG41B T108/D-P003 KL11V
5	60A	60A	60A				KG80C T106/D-P003 STM
5				60A			KG80C T108/D-P003 STM



TWO STRING - RATINGS PER STRING

Page	220V	280V	340V	400V	460V	500V	Order code
6	25A	21A	20A	18A	11A		KG20 T104/GB-P103 KL51V
6	28A	28A	25A	23A	15A	12A	KG32 T104/GB-P103 KL51V
6	40A						KG41 T104/GB-P103 KL11V
Page	330V	420V	510V	600V	690V	750V	Order code
7	25A	21A	20A	18A	11A		KG20B T106/GB-P103 KL11V
7	27A	27A	25A	23A	15A	12A	KG32B T106/GB-P103 KL11V
7	40A	28A					KG41B T106/GB-P103 KL11V
Page	440V	560V	680V	800V	920V	1000V	Order code
8	25A	21A	20A	18A	11A		KG20B T108/GB-P103 KL11V
8	26A	26A	25A	23A	15A	12A	KG32B T108/GB-P103 KL11V
8	40A	28A					KG41B T108/GB-P103 KL11V



AC SWITCH-DISCONNECTOR SELECTION TABLE

Operational current AC-21A	Insulation voltage Ui	3 POLE Order code	Page	4 POLE Order code	Page
25A	690V	KG20 T203/GBA270 *KS1V	10	KG20 T204/GBA290 *KS1V	11
25A	690V	KG20 T203/GBA294 *KL[†]	10	KG20 T204/GBA486 KL51V[†]	11
32A	690V	KG32 T203/GBA294 *KL[†]	10	KG32 T204/GBA486 KL51V[†]	11
40A	690V	KG41 T203/GBA270 *KL1V	10	KG41 T204/GBA290 *KL1V	11

[†] Larger enclosure to match KG20/32 T104 DC enclosure



UTILISATION CATEGORY

DC-21 is a utilisation category which relates to the switching of resistive loads including moderate overloads.

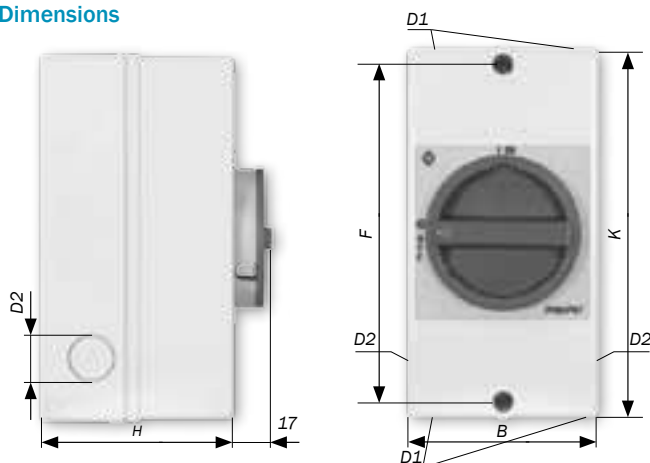
The designation of utilisation categories is completed by the suffix A or B according to whether the intended applications require frequent or infrequent operations.

Utilisation categories with suffix B are appropriate for devices which, due to design or application, are only intended for infrequent operation. This could apply, for example, to switch-

disconnectors normally only operated to provide isolation for maintenance work.

Please select the correct switch-disconnector according to the maximum voltage and current output of all upstream PV modules, this must include all corrective factors according to relevant standards.

Dimensions

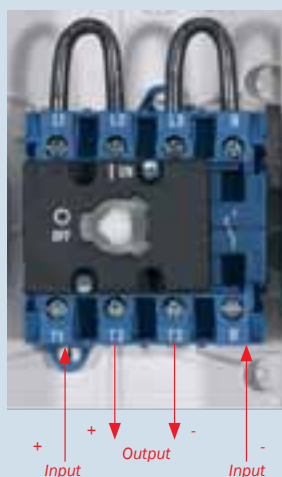


	KG20/KG32	KG41
B	85	100
D1	4 x Ø 20	4 x Ø 25
D2	2 x Ø 20	2 x Ø 25
F	150	178
H	82	93
K	160	190

Mounting

- Insulated enclosure, protection IP66/67, Class II insulation, knock-out entries, black handle and contrasting grey escutcheon plate, OFF-position lockable with padlocks, switch interlocked with lid to prevent opening in 'ON' position, optional Red/Yellow handle available for use as Main/Emergency Off DC Switch-Disconnecter.

Connection Guide



Connecting diagram	Tightening torque for terminal screws	Strip length
	KG20/ KG32 1,25Nm	KG20/ KG32 9
	KG41 1,80Nm	KG41 10

Maximum permissible wire gauge (use copper wire only)

Single core wire or stranded wire KG20/KG32:6mm² KG41:16mm²
Flexible wire KG20/KG32:4mm² KG41:10mm²



DC Switch-Disconnectors for solar photovoltaic (PV) power supply system acc. to IEC 60364-7-712:2002.

General Data

- Switch-Disconnectors according to EN 60947-3 respectively VDE part 107
- Utilisation Category:
DC-21B for Photovoltaic application
- Ambient Temperature:
50°C during 24 hours with peaks up to 55°C
- Terminals:
Finger-proof according to VDE 0660-514 and BGV A3, IP 20
- Insulation Voltage: 1000V
- 2 Pole, 4 contacts (2x2 in series)

Rated Value & Order Number

Operational voltage	Operational current	Order number
450V	25A	KG20 T104/D-P003 KL51V
450V	40A	KG41 T104/D-P003 KL11V
500V	21A	KG20 T104/D-P003 KL51V
500V	28A	KG32 T104/D-P003 KL51V
650V	20A	KG20 T104/D-P003 KL51V
650V	25A	KG32 T104/D-P003 KL51V
800V	18A	KG20 T104/D-P003 KL51V
800V	23A	KG32 T104/D-P003 KL51V
920V	11A	KG20 T104/D-P003 KL51V
920V	15A	KG32 T104/D-P003 KL51V
1000V	12A	KG32 T104/D-P003 KL51V

Data valid only if the pre-assembled jumpers have not been modified.



DC Switch-Disconnectors for solar photovoltaic (PV) power supply system acc. to IEC 60364-7-712:2002.

General Data

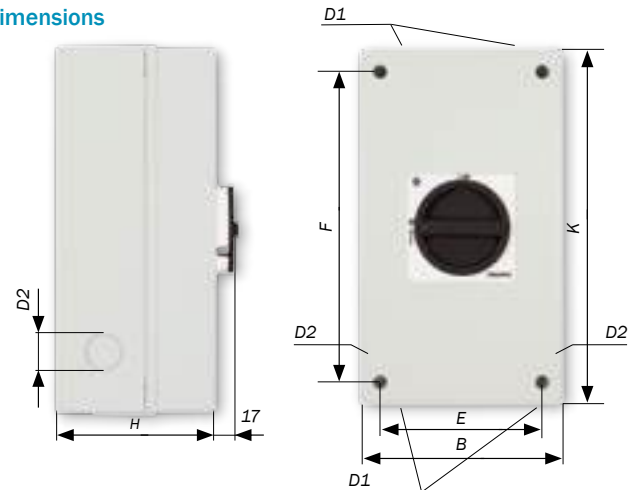
- Switch-Disconnectors according to EN 60947-3 respectively VDE 0660 part 107
- Utilisation Category:
DC-21B for Photovoltaic application
- Ambient Temperature:
50°C during 24 hours with peaks up to 55°C
- Terminals:
Finger-proof according to VDE 0660-514 and BGV A3, IP 20
- Insulation Voltage: 1000V
- 2 Pole, 6 contacts (2x3 in series)

Rated Value & Order Number

Operational voltage	Operational current	Order number
500V	40A	KG41B T106/D-P003 KL11V
650V	27A	KG32B T106/D-P003 KL11V
650V	40A	KG41B T106/D-P003 KL11V
800V	21A	KG20B T106/D-P003 KL11V
800V	27A	KG32B T106/D-P003 KL11V
800V	28A	KG41B T106/D-P003 KL11V
1000V	20A	KG20B T106/D-P003 KL11V
1000V	25A	KG32B T106/D-P003 KL11V

Data valid only if the pre-assembled jumpers have not been modified.

Dimensions

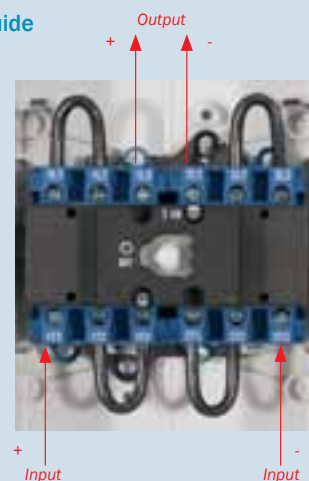


	KG20B/KG32B	KG41B
B	100	145
E	-	124
D1	4 x Ø 25	4 x Ø 25
D2	2 x Ø 25	2 x Ø 25
F	178	229
H	93	107
K	190	250

Mounting

- Insulated enclosure, protection IP66/67, Class II Insulation, knock-out entries, black handle and contrasting grey escutcheon plate, OFF-position lockable with padlocks, switch interlocked with lid to prevent opening in 'ON' position, optional Red/Yellow handle available for use as Main/Emergency Off DC Switch-Disconnector.

Connection Guide

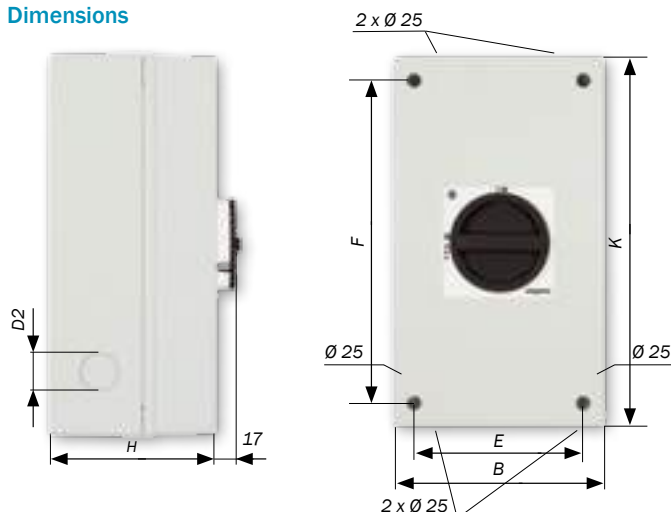


Connecting diagram	Tightening torque for terminal screws	Strip length
	KG20B/ KG32B 1,25Nm	KG20B/ KG32B 9
	KG41B 1,80Nm	KG41B 10

Maximum permissible wire gauge (use copper wire only)

Single core wire or stranded wire KG20B/KG32B:6mm² KG41B:16mm²
Flexible wire KG20B/KG32B:4mm²KG41B:10mm²

Dimensions

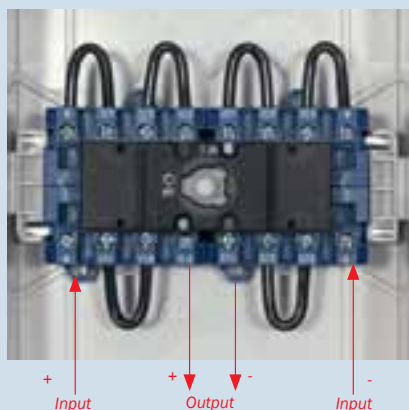


	KG32B/KG41B
B	145
E	124
F	229
H	107
K	250

Mounting

- Insulated enclosure, protection IP66/67, Class II insulation, knock-out entries, black handle and contrasting grey escutcheon plate, OFF-position lockable with padlocks, switch interlocked with lid to prevent opening in 'ON' position, optional Red/Yellow handle available for use as Main/Emergency Off DC Switch-Disconnecter.

Connection Guide



Connecting diagram	Tightening torque for terminal screws	Strip length
	KG32B 1,25Nm	KG32B 9
	KG41B 1,80Nm	KG41B 10

Maximum permissible wire gauge (use copper wire only)

Single core wire or stranded wire	KG32B:6mm ²	KG41B:16mm ²
Flexible wire	KG32B:4mm ²	KG41B:10mm ²



DC Switch-Disconnectors for solar photovoltaic (PV) power supply system acc. to IEC 60364-7-712:2002.

General Data

- Switch-Disconnectors according to EN 60947-3 respectively VDE 0660 part 107
- Utilisation Category:
DC-21B for Photovoltaic application
- Ambient Temperature:
50°C during 24 hours with peaks up to 55°C
- Terminals:
Finger-proof according to VDE 0660-514 and BGV A3, IP 20
- Insulation Voltage: 1000V
- 2 Pole, 8 contacts (2x4 in series)

Rated Value & Order Number

Operational voltage	Operational current	Order number
880V	40A	KG41B T108/D-P003 KL11V
920V	40A	KG41B T108/D-P003 KL11V
1000V	26A	KG32B T108/D-P003 KL11V
1000V	35A	KG41B T108/D-P003 KL11V

Data valid only if the pre-assembled jumpers have not been modified.



DC Switch-Disconnectors for solar photovoltaic (PV) power supply system acc. to IEC 60364-7-712:2002.

General Data

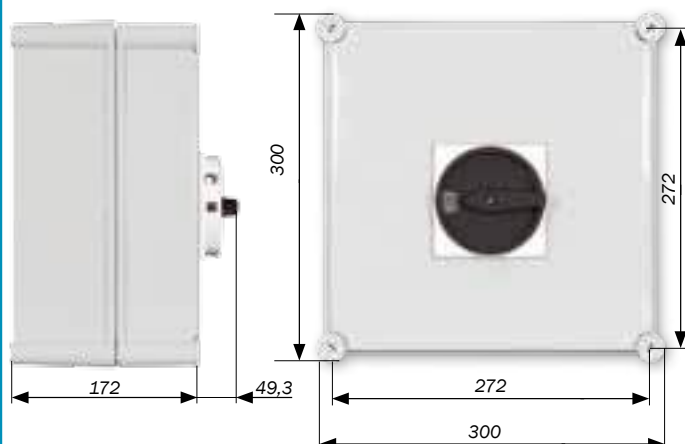
- Switch-Disconnectors according to EN 60947-3 respectively VDE 0660 part 107
- Utilisation Category:
DC-21B for Photovoltaic application
- Ambient Temperature:
50°C during 24 hours with peaks up to 55°C
- Terminals:
Finger-proof according to VDE 0660-514 and BGV A3, IP 20
- Insulation Voltage: 1000V
- T106 – 2 Pole, 6 contacts (2x3 in series)
- T108 – 2 Pole, 8 contacts (2x4 in series)

Rated Value & Order Number

Operational voltage	Operational current	Order number
450V	60A	KG80C T106/D-P003 STM
500V	60A	KG80C T106/D-P003 STM
650V	60A	KG80C T106/D-P003 STM
800V	60A	KG80C T108/D-P003 STM

Data valid only if the pre-assembled jumpers have not been modified.

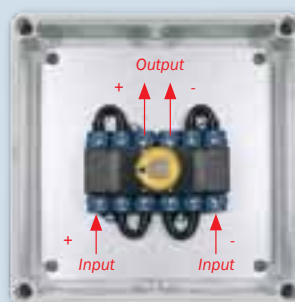
Dimensions



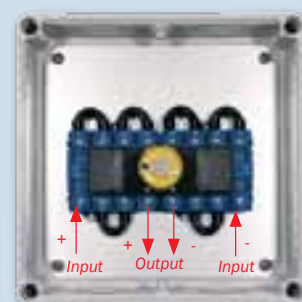
Mounting

- Insulated enclosure, protection IP66/67, Class II Insulation, black handle and contrasting grey escutcheon plate, OFF-position lockable with padlocks, switch interlocked with lid to prevent opening in 'ON' position, optional Red/Yellow handle available for use as Main/Emergency-Off DC Switch-Disconnecter.

Connection Guide



Contact development: 2 pole
6 contact per circuit
(2 x 3 in series)



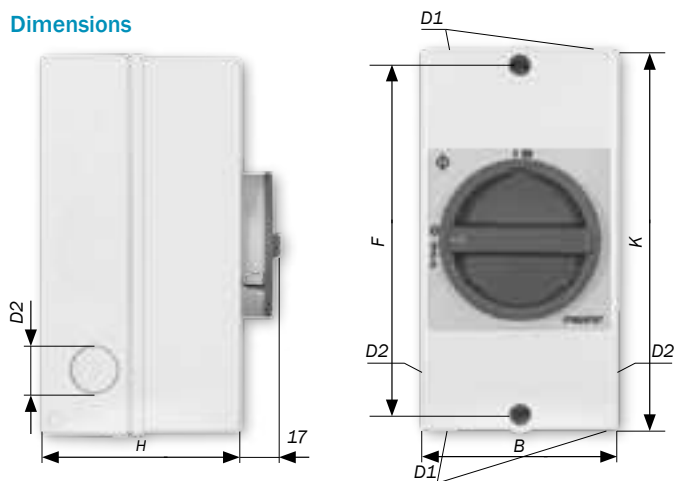
Contact development: 2 pole
8 contact per circuit
(2 x 4 in series)

Connecting diagram 6 contacts	Connecting diagram 8 contacts	Tightening torque for terminal screws	Strip length
		KG80C 3,00Nm	KG80C 14

Maximum permissible wire gauge (use copper wire only)

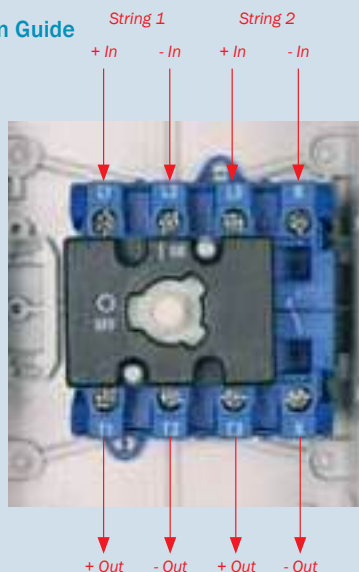
Single core wire or stranded wire KG80C:50mm²
Flexible wire KG80C:35mm²

Dimensions



	KG20/KG32	KG41
B	85	100
D1	4 x Ø 20	4 x Ø 25
D2	2 x Ø 20	2 x Ø 25
F	150	178
H	82	93
K	160	190

Connection Guide



Connecting diagram	Tightening torque for terminal screws	Strip length
String 1 In In + - L1 L2 ↓ ↓ T1 T2 + - Out Out String 2 In In + - L3 N ↓ ↓ T3 N + - Out Out	KG20/ KG32 1,25Nm KG20/ KG32 KG41 1,80Nm KG41	9 10

Maximum permissible wire gauge (use copper wire only)

Single core wire or stranded wire KG20/KG32:6mm² KG41:16mm²
Flexible wire KG20/KG32:4mm² KG41:10mm²



DC Switch-Disconnectors for solar photovoltaic (PV) power supply system acc. to IEC 60364-7-712:2002.

General Data

- Switch-Disconnectors according to EN 60947-3 respectively VDE 0660 part 107
- Utilisation Category:
DC-21B for Photovoltaic application
- Ambient Temperature:
50°C during 24 hours with peaks up to 55°C
- Terminals:
Finger-proof according to VDE 0660-514 and BGV A3, IP 20
- 4 Pole, 2x2 contacts per string

Mounting

- Insulated enclosure, protection IP66/67, Class II Insulation, knock-out entries, black handle and contrasting grey escutcheon plate, OFF-position lockable with padlocks, switch interlocked with lid to prevent opening in 'ON' position, optional Red/Yellow handle available for use as Main/Emergency-Off DC Switch-Disconnecter.

Rated Value & Order Number

Operational voltage	Operational current	Order number
220V	25A	KG20 T104/GB-P103 KL51V
220V	40A	KG41 T104/GB-P103 KL11V
280V	21A	KG20 T104/GB-P103 KL51V
280V	28A	KG32 T104/GB-P103 KL51V
340V	20A	KG20 T104/GB-P103 KL51V
340V	25A	KG32 T104/GB-P103 KL51V
400V	18A	KG20 T104/GB-P103 KL51V
400V	23A	KG32 T104/GB-P103 KL51V
460V	11A	KG20 T104/GB-P103 KL51V
460V	15A	KG32 T104/GB-P103 KL51V
500V	12A	KG32 T104/GB-P103 KL51V

Data valid only if the pre-assembled jumpers have not been modified.



DC Switch-Disconnectors for solar photovoltaic (PV) power supply system acc. to IEC 60364-7-712:2002.

General Data

- Switch-Disconnectors according to EN 60947-3 respectively VDE 0660 part 107
- Utilisation Category: DC21B for Photovoltaic application
- Ambient Temperature: 50°C during 24 hours with peaks up to 55°C
- Terminals: Finger-proof according to VDE 0660-514 and BGV A3, IP 20
- 4 Pole, 2x3 contacts per string

Mounting

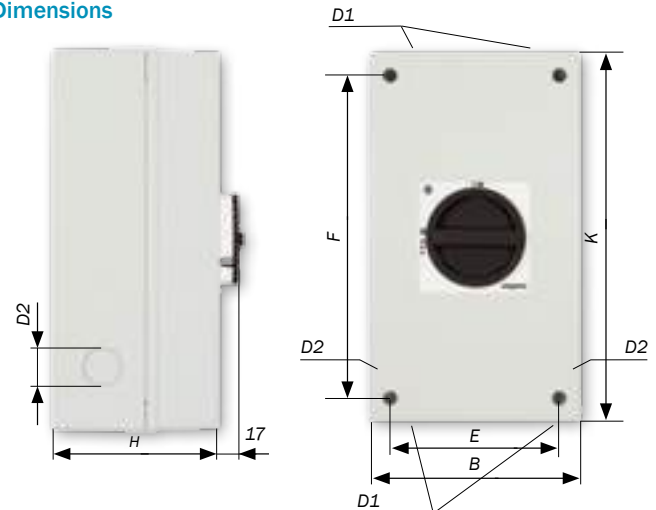
- Insulated enclosure, protection IP66/67, Class II Insulation, knock-out entries, black handle and contrasting grey escutcheon plate, OFF-position lockable with padlocks, switch interlocked with lid to prevent opening in 'ON' position, optional Red/Yellow handle available for use as Main/Emergency-Off DC Switch-Disconnector.

Rated Value & Order Number

Operational voltage	Operational current	Order number
330V	25A	KG20B T106/GB-P103 KL11V
330V	40A	KG41B T106/GB-P103 KL11V
420V	21A	KG20B T106/GB-P103 KL11V
420V	27A	KG32B T106/GB-P103 KL11V
420V	28A	KG41B T106/GB-P103 KL11V
510V	20A	KG20B T106/GB-P103 KL11V
510V	25A	KG32B T106/GB-P103 KL11V
600V	18A	KG20B T106/GB-P103 KL11V
600V	23A	KG32B T106/GB-P103 KL11V
690V	11A	KG20B T106/GB-P103 KL11V
690V	15A	KG32B T106/GB-P103 KL11V
750V	12A	KG32B T106/GB-P103 KL11V

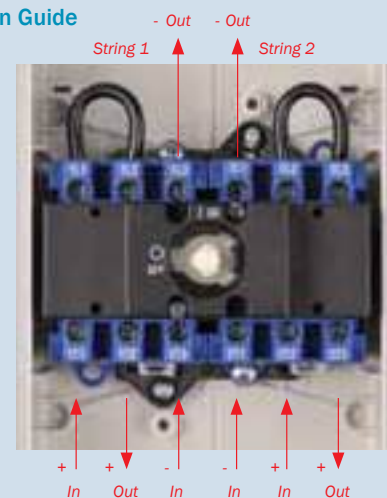
Data valid only if the pre-assembled jumpers have not been modified.

Dimensions



	KG20B/KG32B	KG41B
B	100	145
E	-	124
D1	4 x Ø 25	4 x Ø 25
D2	2 x Ø 25	2 x Ø 25
F	178	229
H	93	107
K	190	250

Connection Guide

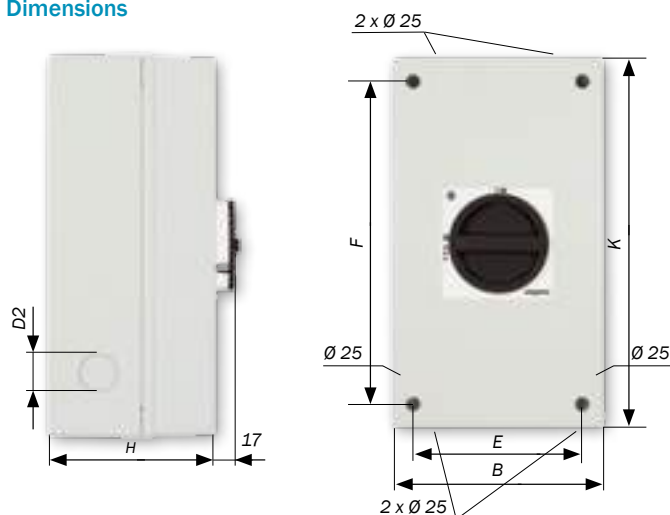


Connecting diagram	Tightening torque for terminal screws	Strip length
String 1 String 2 Out 1L1 1L2 1L3 2L1 2L2 2L3 1T1 1T2 1T3 2T1 2T2 2T3 In Out In In In Out	KG20B/ 1,25Nm KG32B KG41B 1,80Nm	KG20B/ 9 KG32B KG41B 10

Maximum permissible wire gauge (use copper wire only)

Single core wire	KG20B/KG32B:6mm ²	KG41B:16mm ²
or stranded wire		
Flexible wire	KG20B/KG32B:4mm ²	KG41B:10mm ²

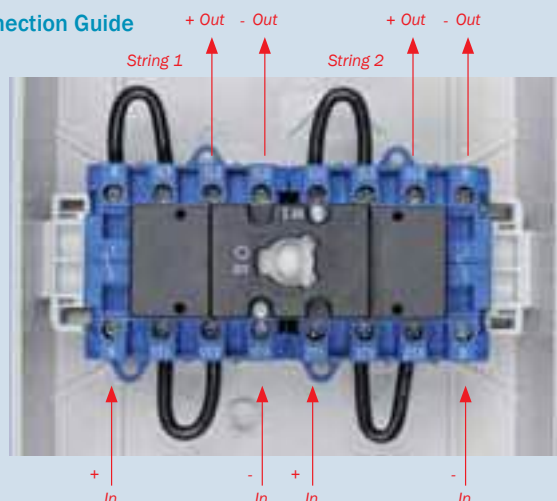
Dimensions



KG20B/KG32B/KG41B

	KG20B/KG32B/KG41B
B	145
E	124
F	229
H	107
K	250

Connection Guide



Connecting diagram	Tightening torque for terminal screws	Strip length
	KG20B/ 1,25Nm KG32B KG41B 1,80Nm	KG20B/ 9 KG32B KG41B 10

Maximum permissible wire gauge (use copper wire only)

Single core wire	KG20B/KG32B:6mm ²	KG41B:16mm ²
or stranded wire		
Flexible wire	KG20B/KG32B:4mm ²	KG41B:10mm ²



DC Switch-Disconnectors for solar photovoltaic (PV) power supply system acc. to IEC 60364-7-712:2002.

General Data

- Switch-Disconnectors according to EN 60947-3 respectively VDE 0660 part 107
- Utilisation Category:
DC-21B for Photovoltaic application
- Ambient Temperature:
50°C during 24 hours with peaks up to 55°C
- Terminals:
Finger-proof according to VDE 0660-514 and BGV A3, IP 20
- 4 Pole, 2x4 contacts per string

Mounting

- Insulated enclosure, protection IP66/67, Class II Insulation, knock-out entries, black handle and contrasting grey escutcheon plate, OFF-position lockable with padlocks, switch interlocked with lid to prevent opening in 'ON' position, optional Red/Yellow handle available for use as Main/Emergency-Off DC Switch-Disconnector.

Rated Value & Order Number

Operational voltage	Operational current	Order number
440V	25A	KG20B T108/GB-P103 KL11V
440V	40A	KG41B T108/GB-P103 KL11V
560V	21A	KG20B T108/GB-P103 KL11V
560V	26A	KG32B T108/GB-P103 KL11V
560V	28A	KG41B T108/GB-P103 KL11V
680V	20A	KG20B T108/GB-P103 KL11V
680V	25A	KG32B T108/GB-P103 KL11V
800V	18A	KG20B T108/GB-P103 KL11V
800V	23A	KG32B T108/GB-P103 KL11V
920V	11A	KG20B T108/GB-P103 KL11V
920V	15A	KG32B T108/GB-P103 KL11V
1000V	12A	KG32B T108/GB-P103 KL11V

Data valid only if the pre-assembled jumpers have not been modified.



Main/Emergency - Off AC Switch-Disconnectors for solar photovoltaic (PV) power supply system acc. to IEC 60947.

General Data

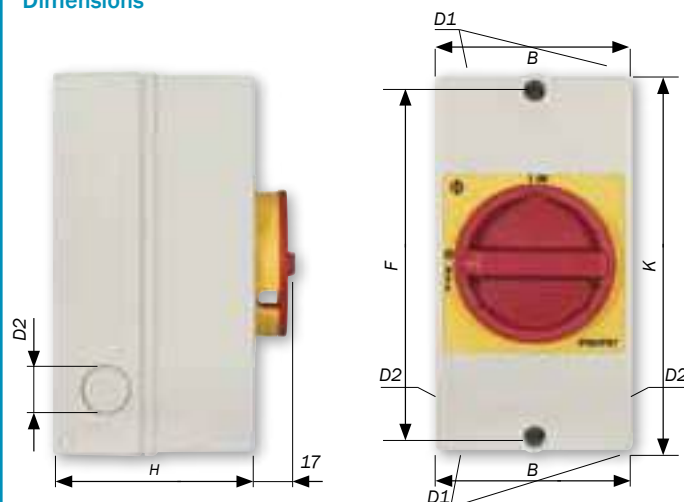
- Switch-Disconnectors according to EN 60947-3 respectively VDE 0660 part 107
- Ambient Temperature:
35°C average during 24 hours with peaks up to 40°C
- Terminals:
Finger-proof according to VDE 0660-514 and BGV A3, IP 20

Rated Value & Order Number

Operational current AC-21A	Insulation voltage Ui	Enclosed thermal rating I	Order number
25A	690V	25A	KG20 T203/GBA270 *KS1V
25A	690V	25A	KG20 T203/GBA294 *KL†
32A	690V	32A	KG32 T203/GBA294 *KL†
40A	690V	40A	KG41 T203/GBA270 *KL1V†

† Larger enclosure to match KG20/32 T104 DC enclosure

Dimensions



	KG20...KS	KG20/KG32...KL	KG41
B	85	85	100
D1	4 x Ø 20/25	4 x Ø 20	4 x Ø 25
D2	2 x Ø 20	2 x Ø 20	2 x Ø 25
F	110	150	178
H	90	82	93
K	120	160	190

Mounting

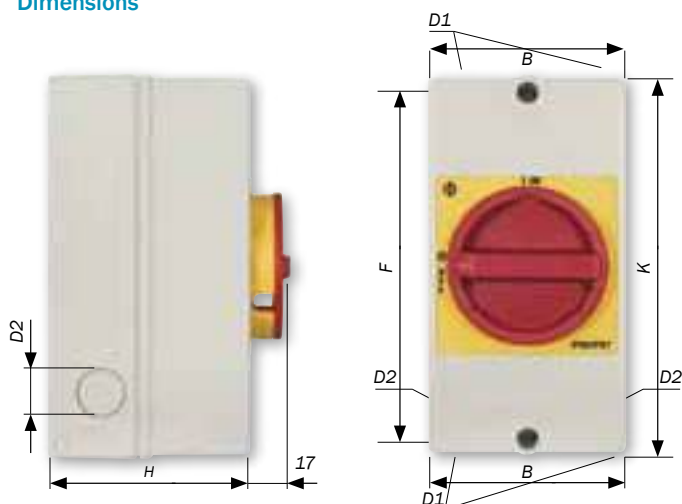
- Insulated enclosure, protection IP66/67, insulated, knock-out entries, red handle and contrasting yellow escutcheon plate, OFF-position lockable with padlocks, switch interlocked with lid to prevent opening in 'ON' position. Earth terminal included as standard. Optional Black/Grey handle available for use as Main Switch.

Connecting diagram	Tightening torque for terminal screws	Strip length
	KG20/ KG32 1,25Nm KG41 1,80Nm	KG20/ 9 KG32 KG41 10

Maximum permissible wire gauge (use copper wire only)

Single core or stranded wire	KG20/KG32:6mm ² KG41:16mm ²
Flexible wire	KG20/KG32:4mm ² KG41:10mm ²

Dimensions



	KG20...KS	KG20/KG32...KL	KG41
B	85	85	100
D1	4 x Ø 20/25	4 x Ø 20	4 x Ø 25
D2	2 x Ø 20	2 x Ø 20	2 x Ø 25
F	110	150	178
H	90	82	93
K	120	160	190

Mounting

- Insulated enclosure, protection IP66/67, insulated, knock-out entries, red handle and contrasting yellow escutcheon plate, OFF-position lockable with padlocks, switch interlocked with lid to prevent opening in 'ON' position. Earth terminal included as standard. Optional Black/Grey handle available for use as Main Switch.

Main/Emergency - Off AC Switch-Disconnectors for solar photovoltaic (PV) power supply system acc. to IEC 60947.

General Data

- Switch-Disconnectors according to EN 60947-3 respectively VDE 0660 part 107
- Ambient Temperature:
35°C average during 24 hours with peaks up to 40°C
- Terminals:
Finger-proof according to VDE 0660-514 and BGV A3, IP 20
- 4 Pole (3 phase and switched neutral)

Rated Value & Order Number

Operational current AC-21A, I _e	Insulation voltage U _i	Enclosed thermal rating I	Order number
25A	690V	25A	KG20 T204/GBA290 *KS1V
25A	690V	25A	KG20 T204/GBA486 KL51V[†]
32A	690V	32A	KG32 T204/GBA486 KL51V[†]
40A	690V	40A	KG41 T204/GBA290 *KL1V

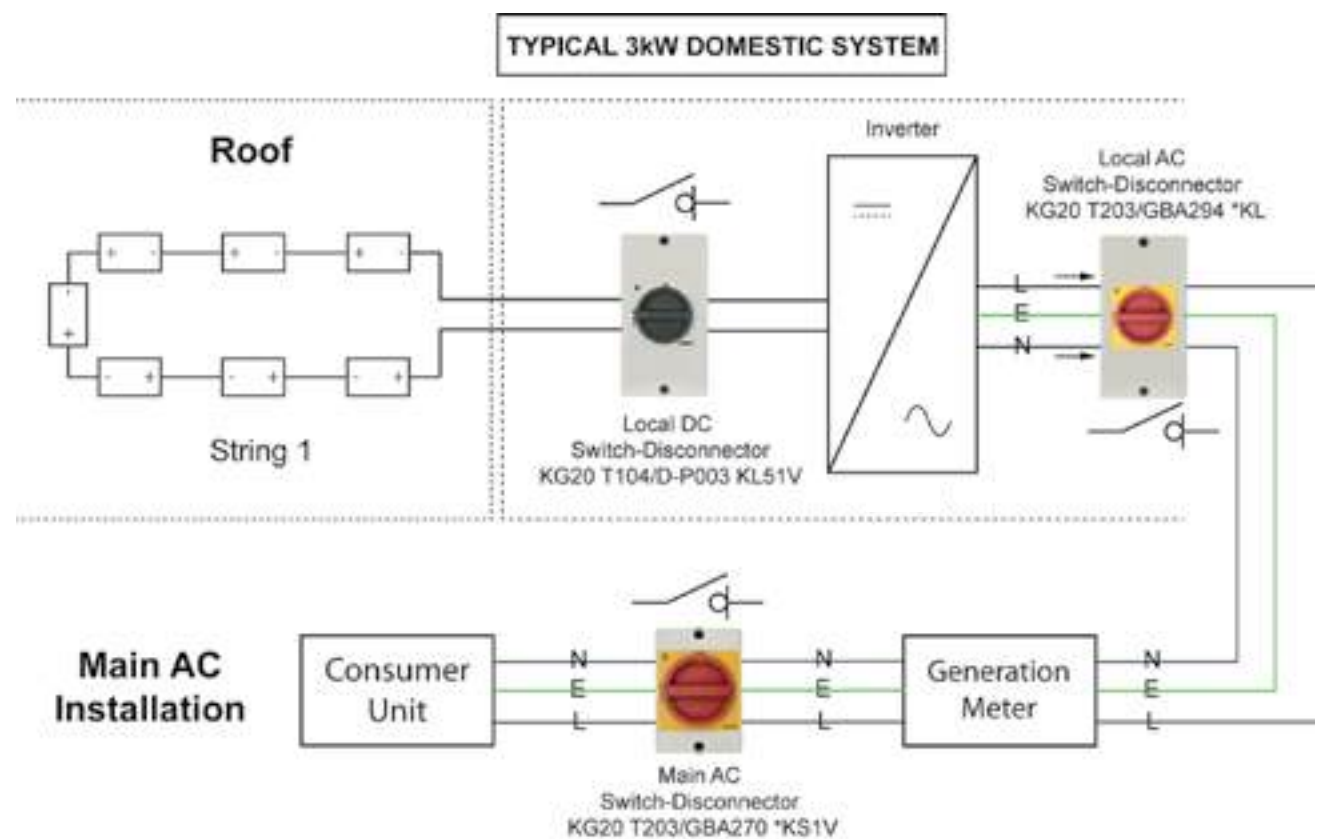
[†] Larger enclosure to match KG20/32 T104 DC enclosure

Connecting diagram	Tightening torque for terminal screws	Strip length
	KG20/ KG32 1,25Nm	KG20/ 9
	KG41 1,80Nm	KG41 10

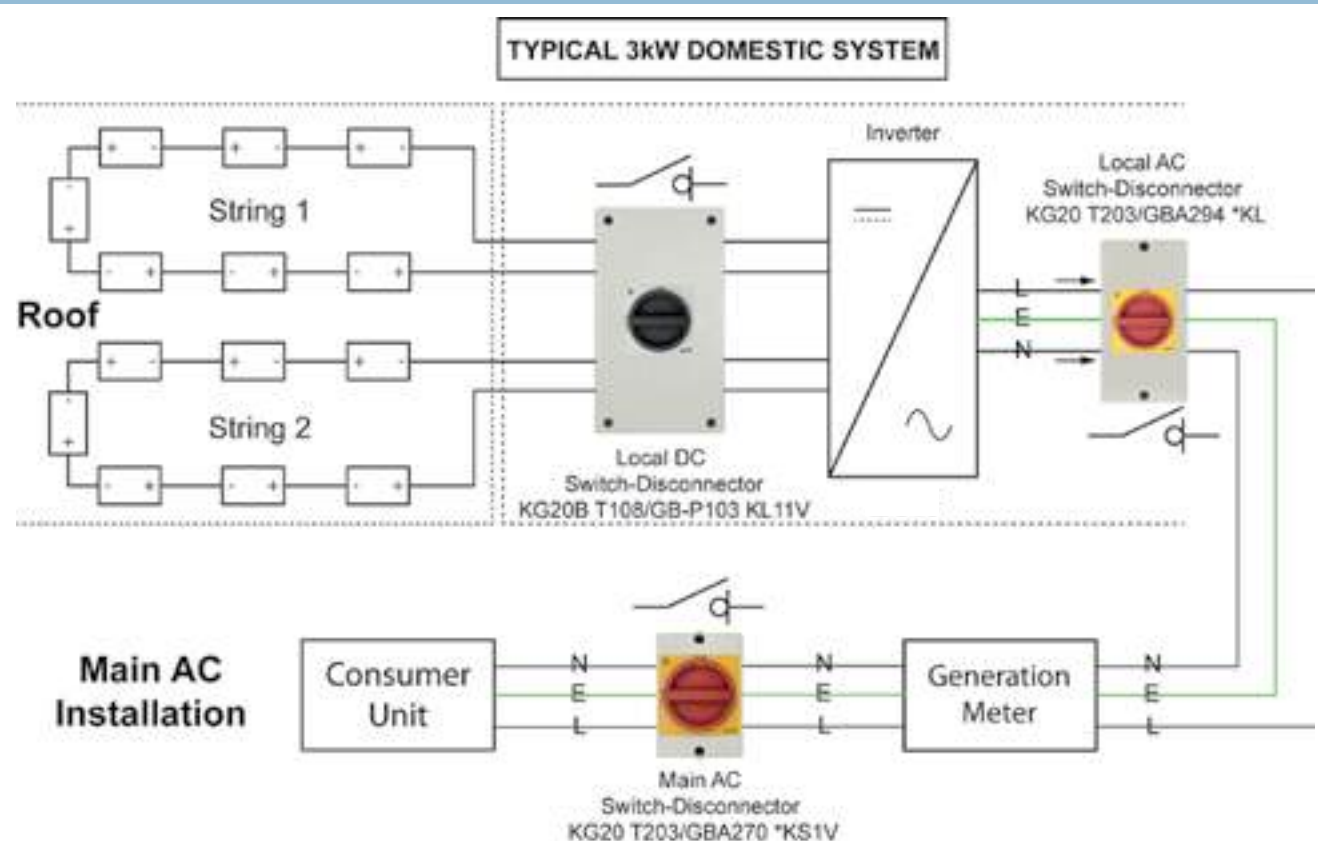
Maximum permissible wire gauge (use copper wire only)

Single core or stranded wire	KG20/KG32:6mm ²	KG41:16mm ²
Flexible wire	KG20/KG32:4mm ²	KG41:10mm ²

Single String



Two String



PV Disconnect Switches – Enclosed • DC-21B Rating Information @ 50 °C & 60 °C.

Ambient Temp	Max Thermal Rating	Rated Operating Voltage & Current								Order code
		440V	450V	500V	560V	680V	800V	920V	1000V	
50 °C	25A	25A	25A	21A	21A	20A	18A	11A	-	KG20 T104/D-P003 KL51V
60 °C	23A	23A	23A	21A	21A	20A	18A	11A	-	
50 °C	28A	28A	28A	28A	28A	25A	23A	15A	12A	KG32 T104/D-P003 KL51V
60 °C	23A	23A	23A	23A	23A	23A	23A	15A	12A	
50 °C	40A	40A	40A	28A	28A	25A	23A	10A	-	KG41 T104/D-P003 KL11V
60 °C	40A	40A	40A	28A	28A	25A	23A	10A	-	

Ambient Temp	Max Thermal Rating	Rated Operating Voltage & Current							Order code
		480V	500V	650V	660V	800V	840V	1000V	
50 °C	25A	25A	25A	25A	25A	21A	21A	20A	KG20B T106/D-P003 KL11V
60 °C	22A	22A	22A	22A	22A	21A	21A	20A	
50 °C	27A	27A	27A	27A	27A	27A	27A	25A	KG32B T106/D-P003 KL11V
60 °C	22A	22A	22A	22A	22A	22A	22A	22A	
50 °C	40A	40A	40A	40A	40A	28A	28A	25A	KG41B T106/D-P003 KL11V
60 °C	40A	40A	40A	40A	40A	28A	28A	25A	
50 °C	60A	60A	60A	60A	60A	-	-	-	KG80C T106/D-P003 STM
60 °C	60A	60A	60A	60A	60A	-	-	-	

Ambient Temp	Max Thermal Rating	Rated Operating Voltage & Current				Order code
		640V	880V	920V	1000V	
50 °C	25A	25A	25A	25A	21A	KG20B T108/D-P003 KL11V
60 °C	20A	20A	20A	20A	20A	
50 °C	26A	26A	26A	26A	26A	KG32B T108/D-P003 KL11V
60 °C	20A	20A	20A	20A	20A	
50 °C	40A	40A	40A	40A	35A	KG41B T108/D-P003 KL11V
60 °C	35A	35A	35A	35A	35A	
50 °C	60A	60A	60A	-	-	KG80C T108/D-P003 STM
60 °C	55A	55A	55A	-	-	

Rated insulation voltage: 1000V (all types)

The ratings given in the above tables are in accordance with the requirements of IEC/EN 60947-3, utilisation category DC-21B
Ratings in accordance with utilisation category DC-21B are suitable for use in the selection of an isolator switch that is required to isolate a P.V. string input to a P.V. inverter.

PV Disconnect Switches for 2 Strings – Enclosed • DC-21B. Rating Information @ 50 °C & 60 °C

Ambient Temp	Max Thermal Rating	Rated Operating Voltage & Current						Order code
		220V	280V	340V	400V	460V	500V	
50 °C	25A	25A	21A	20A	18A	11A	-	KG20 T104/GB-P103 KL51V
60 °C	23A	23A	21A	20A	18A	11A	-	
50 °C	28A	28A	28A	25A	23A	15A	12A	KG32 T104/GB-P103 KL51V
60 °C	23A	23A	23A	23A	23A	15A	12A	
50 °C	40A	40A	28A	25A	23A	10A	-	KG41 T104/GB-P103 KL11V
60 °C	40A	40A	28A	25A	23A	10A	-	

Ambient Temp	Max Thermal Rating	Rated Operating Voltage & Current						Order code
		330V	420V	510V	600V	690V	750V	
50 °C	25A	25A	21A	20A	18A	11A	-	KG20B T106/GB-P103 KL11V
60 °C	23A	22A	21A	20A	18A	11A	-	
50 °C	27A	27A	27A	25A	23A	15A	12A	KG32B T106/GB-P103 KL11V
60 °C	22A	22A	22A	22A	22A	15A	12A	
50 °C	40A	40A	28A	25A	23A	10A	-	KG41B T106/GB-P103 KL11V
60 °C	40A	40A	28A	25A	23A	10A	-	

Ambient Temp	Max Thermal Rating	Rated Operating Voltage & Current						Order code
		440V	560V	680V	800V	920V	1000V	
50 °C	25A	25A	21A	20A	18A	11A	-	KG20B T108/GB-P103 KL11V
60 °C	20A	20A	20A	20A	18A	11A	-	
50 °C	26A	26A	26A	25A	23A	15A	12A	KG32B T108/GB-P103 KL11V
60 °C	20A	20A	20A	20A	20A	15A	12A	
50 °C	40A	40A	28A	25A	23A	10A	-	KG41B T108/GB-P103 KL11V
60 °C	35A	35A	28A	25A	23A	10A	-	

Rated insulation voltage: 1000V (all types)

The ratings given in the above tables are in accordance with the requirements of IEC/EN 60947-3, utilisation category DC-21B
Ratings in accordance with utilisation category DC-21B are suitable for use in the selection of an isolator switch
that is required to isolate a P.V. string input to a P.V. inverter.



Kraus & Naimer

**Kraus & Naimer's Blue Line products are accepted
and universally recognised for their quality and workmanship.**

Kraus & Naimer Limited is part of the worldwide Kraus & Naimer Group
which celebrated its 100 year anniversary in 2007.

In 1963, Kraus & Naimer Limited was established as the UK sales and marketing company for
Kraus & Naimer switchgear. By the early 70's successful growth meant a move to its current purpose-built premises in
Newbury, where it supplies over 3,000 customers with world-renowned, high quality Blue Line switchgear products.

A key to our success is the outstanding level of technical product support through our dedicated team of internal and
external technical sales engineers. With many years experience, training and unbeatable product knowledge
the team can find a suitable solution for most switch applications.

www.krausnaimer.co.uk
e: sales-uk@krausnaimer.com t: 01635 262626



Kraus & Naimer

BLUE LINE switchgear

since 1907

115 London Road
Newbury
Berkshire
RG14 2AH
UK

Website: www.krausnaimer.co.uk
Email: sales-uk@krausnaimer.com

Detailed information relating
to application, rating, mounting
and correct installation

For free expert advice and
technical help call our team

01635 262626