Metric combi-flange



Pre-embossed flange, metric, two flange connectors (GFV)

	Housing face	pre-embossed	Order No.	Packing Qty
GFL 211	220 mm	3 x M32/M25, 2 x M20	072 211 01	20/1
GFL 221	220 mm	1 x M50/M40, 4 x M25/M20	072 221 01	20/1
GFL 231	220 mm	2 x M50	072 231 01	20/1
GFL 321	320 mm	3 x M50/M40, 4 x M16	072 321 01	20/1
GFL 331	320 mm	17 x M20/M16	072 331 01	20/1
GFL 341	320 mm	1 x M50/M40, 2 x M32/M25, 4 x M25/M20	072 341 01	20/1
GFL 351	320 mm	12 x M25/M20	072 351 01	20/1
GFL 361	320 mm	4 x M40/M32, 3 x M20	072 361 01	20/1
GFL 371	320 mm	3 x M40/M32/M25	072 374 01	20/1
GFL 381	320 mm	5 x M63/M50/M40	072 384 01	20/1
GFL 411	440 mm	1 x M40/M32, 16 x M25/M20	072 411 01	20/1
GFL 421	440 mm	1 x M50/M40, 2 x M40/M32, 8 x M25/M20	072 421 01	20/1

Metric flange sets



Pre-embossed flange, metric

	Housing face	pre-embossed	Order No.	Packing Qty
GFS 11	1	GFL 211, 221, 341, 351	072 511 01	5/1
GFS 12	2	GFL 321, 341, 341, 351	072 512 01	4/1
GFS 13	3	GFL 341, 351, 411, 421	072 513 01	4/1
GFS 14	4	GFL 321, 321, 331, 331, 341, 351	072 514 01	5/1
GFS 15	5	GFL 321, 331, 341, 351, 411, 421	072 515 01	4/1
GFS 16	6	4 x GFL 321, 4 x GFL 30	072 516 01	4/1

Stain relief cleat



Cable glands (with or without strain relief cleats)
For lines up to Ø 75 mm, two flange connectors (GFV) optionally with strain relief cleat for one line

	Housing face		
GKE 32	320 mm, for two lines, without strain relief cleats	073 032 01	4/1
GKE 43	440 mm, for three lines, without strain relief cleats	073 043 01	4/1
GKZ 321	320 mm, for two lines, with strain relief cleats	073 321 01	4/1
GKZ 431	440 mm, for three lines, with strain relief cleats	073 431 01	4/1
GZS 75	additional clip for GKZ 3 and GKZ 4	073 075 01	5/1

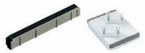
Stain relief cleat



Strain relief cleats for cable glands GKE 32 and GKE 43, for lines up to Ø 75 mm
GKE 1: as replacement: rubber cable gland

GZE 3	housing face 320 mm, for one line	073 003 01	10/1
GZE 4	housing face 440 mm, for one line	073 004 01	5/1
GZS 75	additional clip for GZE 3 and GZE 4	073 075 01	5/1
GKE 1	as replacement: rubber cable gland	073 001 01	10/1

Flange webs / dividers

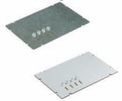


Flange web for replacing sawn-out webs

GFG 3	housing face 320 mm, with seal	072 803 01	20/1
GFG 4	housing face 440 mm, with seal	072 804 01	10/1
GFT	4/2: flange divider, for combining one GTi 3 / GTi 5 housing with two GTi 1 units	072 900 01	30/1
GFK	flange clamp, set = 10 units	072 950 01	5/1

Mounting plates

Steel sheet or insulanting material



Mounting plate, steel sheet, with attachments

	Housing face	Dimensions in mm	Order No.	Packing Qty
GMS 1	1	260 x 160 x 2	071 001 01	10/1
GMS 2	2	260 x 260 x 2	071 002 01	10/1
GMS 3	3	380 x 260 x 2	071 003 01	10/1
GMS 4	4	580 x 260 x 2	071 004 01	5/1
GMS 5	5	580 x 380 x 2	071 005 01	5/1
GMI 1	1	260 x 160 x 5	071 011 01	10/1
GMI 2	2	260 x 260 x 5	071 012 01	10/1
GMI 3	3	380 x 260 x 5	071 013 01	10/1
GMI 4	4	580 x 260 x 5	071 014 01	5/1
GMI 5	5	580 x 380 x 5	071 015 01	5/1

Meter plate



Meter plate, insulating material, with attachments and screws for fastening the meter in place

GZP meter plate		071 300 01	10/1

DIN-rail, 35 mm



Standardised 35 mm rail with universal mounting holder (GUM), permits mounting at five different heights

	Housing face	Order No.	Packing Qty
GNU 235	220 mm	074 235 01	35/1
GNU 335	320 mm	074 335 01	35/1
GNU 435	440 mm	074 435 01	25/1
GNU 635	640 mm	074 635 01	25/1
GUM universal mounting holder for mounting plates (4 units)		074 900 01	20/1

Dummy panel



Dummy panel to cover vacant slots for bus-mounted fuses or load-breakers, snap-off size adjustment

LFB - Dummy panel: set = 1 unit, width: 54 mm		055 001 01	10/1

Bus bar connectors



Bus bar connectors, universal, 250-630 A, for connecting bus bars and housings, for copper rails from 12 x 5 mm to 30 x 10 mm

GSV 56: 5-poles		075 056 01	15/1

Masking off strips

Masking off strips to close off unused circuit-breaker positions, width 108 mm for 6 splitter units, detachable, grey

AK AS		799 012 01	1/1

Z-Wall profile



Zinc coated, length 2 m, with 8 cap-head screws and 8 captive push-fit nuts, wall gap 70 mm

ZPR		070 800 01	1/1

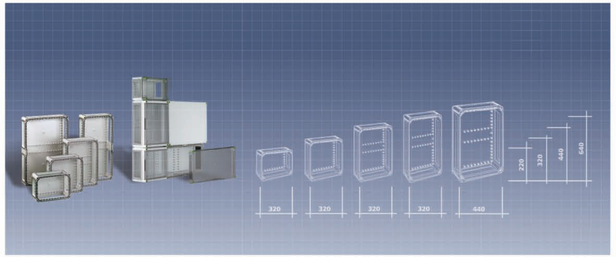
AK External fixing plates



For mounting of seperate enclosures or small units on flat wall surfaces, may be fixed to the bottom of the enclosure at an angle of 0°, 45° or 90°, wall gap 7 mm

AK ABL-V2A		793 004 01	10/1

GTi - The System - from individual housings to complete distribution boards





WKE -
Maintenance of electrical function



GTi -
The system for ISO distributors up to 1250 A



Industrial Quality
Products for use under extreme conditions

VK 17156-909350-012010-1

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You can count on us.

IP65 IK08 1,000 VDC PC+ 15% GF PC -35°C +80°C

IP66 IK08 1,000 VDC PC+ 15% GF PC -35°C +80°C

IP65 IK08 690V AC 1,000 VDC max. 1250 A PC+ 15% GF PC RAL 7035 -35°C +80°C

els spelsberg

Data for overvoltage protector	
SPD classification aec. to EN 61643-11	type 2
SPD classification aec. to EN 61643-1	Class II
Maximum PV voltage [U_{PVmax}]	≤ 1000 V
Total peak bypass current (8/20) [I_{total}]	40 kA
Rated peak bypass current (8/20) [(DC+/DC-) -> PE] (I_n)	12.5 kA
Maximum peak bypass current (8/20) [(DC+/DC-) -> PE] (I_{max})	25 kA
Protection level [Up]	≤ 4kV
Protection level at 5 kA [Up]	≤ 3.5kV
Response time (t_A)	≤ 25 ns
Operating temperature range (T_U)	-40°C to +80°C
Cutout power of the internal fuse	30 kA / 1000V DC
Functioning / fault display	green/red
Cross-section of connection (min.)	1.5 mm² single-wire/fine-wire
Cross-section of connection (max.)	35 mm² multi-wire 25 mm² fine-wire
Protection degree	IP20
Horizontal dimensions	3 units, DIN 43880

Connection box PV 48
(Order No.: 497 402 01)

- Time-saving thanks to our easy line extension
- Maximum flexibility for PV installations
- Unrestricted connections possible up to 6 mm²
- High level of safety with our million-fold proven connection technology
- Secure investment, because no special tools are required => no crimping or shrinking
- Available temperature range -40°C to +85°C
- Standards-compliant installation



IP65 1,000V DC 15 A IK07

Generator Isolation Housings

With over-voltage protection

	Strings	Max. voltage (V)	Max. current (A)	Housing dimensions (mm)	Order Ref. No.
GF2 500-16 ÜSS	2	500	16	200 x 200 x 122	178 253 01
GF2 500-16 ÜSS	2	800	16	300 x 300 x 142	178 254 01
GF4 500-16 ÜSS	4	500	16	250 x 200 x 122	178 453 01
GF4 800-16 ÜSS	4	800	16	300 x 300 x 142	178 454 01
GF4 500-25 ÜSS	4	500	25	250 x 200 x 122	178 463 01
GF4 800-25 ÜSS	4	800	25	300 x 300 x 142	178 473 01
GF4 1000-25 ÜSS	4	1000	25	254 x 180 x 111	177 473 01
GF8 500-25 ÜSS	8	500	25	300 x 300 x 142	178 863 01
GF8 800-25 ÜSS	8	800	25	300 x 450 x 142	178 873 01

With over-voltage protection

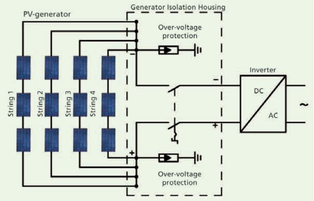
	Strings pro DC-load	Quantity DC-load isolation switch	Max. voltage (V)	Max. current (A)	Housing dimensions (mm)	Order Ref. No.
GF2X2 800-16 ÜSS	2	2	800	16	250 x 370 x 122	178 275 01
GF2X3 800-16 ÜSS	2	3	800	16	300 x 600 x 142	178 375 01

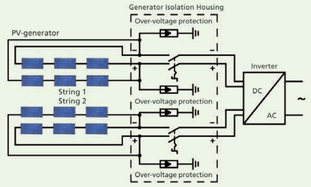
Without over-voltage protection

	Strings	Max. voltage (V)	Max. current (A)	Housing dimensions (mm)	Order Ref. No.
GF1 500-16	1	500	16	200 x 125 x 122	178 102 01
GF1 800-16	1	800	16	200 x 125 x 122	178 103 01
GF2 500-16	2	500	16	200 x 125 x 122	178 202 01
GF2 800-16	2	800	16	200 x 200 x 122	178 203 01
GF4 500-16	4	500	16	200 x 200 x 122	178 402 01
GF4 800-16	4	800	16	250 x 200 x 122	178 403 01
GF4 500-25	4	500	25	200 x 200 x 122	178 412 01
GF4 800-25	4	800	25	250 x 200 x 122	178 423 01
GF4 1000-25	4	1000	25	254 x 180 x 111	177 423 01
GF8 500-25	8	500	25	250 x 200 x 122	178 812 01
GF8 800-25	8	800	25	300 x 300 x 142	178 813 01

Without over-voltage protection

	Strings pro DC-load	Quantity DC-load isolation switch	Max. voltage (V)	Max. current (A)	Housing dimensions (mm)	Order Ref. No.
GF2X2 800-16	2	2	800	16	250 x 370 x 122	178 223 01
GF2X3 800-16	2	3	800	16	300 x 600 x 142	178 323 01





Make use of our comprehensive service package: all the way from the planning stage to a complete customised solution !

Terminal block housings

With over-voltage protection

	Strings	Max. voltage (V)	Housing dimensions (mm)	Order Ref. No.
RK-PV 4 ÜS	4	750	180 x 182 x 90	677 454 01
RK-PV 8 ÜS	8	750	254 x 180 x 90	677 854 01

Without over-voltage protection

	Strings	Max. voltage (V)	Housing dimensions (mm)	Order Ref. No.
RK-PV 4	4	750	180 x 182 x 90	677 403 01
RK-PV 8	8	750	254 x 180 x 90	677 803 01

Empty

	Strings	Housing dimensions (mm)	Order Ref. No.
RK-PV 4 empty	4	180 x 182 x 90	677 400 01
RK-PV 8 empty	8	254 x 180 x 90	677 800 01



DC

Distribution boards

AKi 05	736 405 01
AKi 09	736 409 01
AKi 12	736 412 01
AKi 24	736 424 01
AKi 14	736 414 01
AKi 28	736 428 01
AKi 42	736 442 01

Empty enclosures

GTi 1	010 001 01
GTi 2	010 002 01
GBZ 2	010 092 01
GTi 3	010 003 01
GTi 4	010 004 01
GTi 5	010 005 01

Distribution boards

GTA 114	015 114 01
GTA 228-t / GTA 228-KT-t	015 228 01 / 016 228 01
GTA 340	015 340 01
GTA 342-t / GTA 342-KT-t	015 342 01 / 016 342 01
GTA 456-H-t	015 456 01
GTA 456-Q-t	014 456 01
GTA 580	015 580 01

Meter housings

GTZ 3	020 003 01
GTZ 4	020 004 01
GTZ 4-K	020 410 01
GTZ 4-KK	021 410 01

Load breaking switch housing

GTE 106, 63 A	032 106 01
GTE 108, 80 A	032 108 01
GTE 210, 100 A	032 210 01
GTE 216, 160 A	032 216 01
GTE 425, 250 A	032 425 01
GTE 440, 400 A	032 440 01
GTE 463, 630 A	032 463 01

HRC fuse switch disconnector housing

GTT 101, 160 A	026 101 01
GTT 201, 202, 160 A	026 201 01 / 026 202 01(*)
GTT 411, 250 A	026 411 01
GTT 421, 400 A	026 421 01

(*) = 2 x HRC (125 A) fuse switch diconnector

HRC fuse base housing

GTS 101, 125 A	022 101 01
GTS 201, 125 A	022 201 01
GTS 202, 125 A	022 202 01
GTS 411, 125 A	022 411 01
GTS 421, 125 A	022 421 01

Bus bar housing

GSi 25X, 250 A	040 25X 01
GSi 45X-Q, 250 A	040 45X 01
GSi 45X-H, 250 A	041 45X 01
GSi 656, 630 A	041 656 01

4-pole types on request!

X	Max. current
3	250 A
4	400 A
6	630 A

Choose your solution from our standard programme!



HRC bus-mounted fuse base housing

GSS 2015 - X	042 015 __
GSS 2025 - X	042 005 __
GSS 4025 - X	042 025 __
GSS 4035 - X	042 035 __
GSS 4045 - X	042 045 __
GSS 4116, GSS 4115 - X	042 116 01, 042 115 __
GSS 4215 - X	042 215 __

X	Max. current	Order number suffix
250	250 A	04
400	400 A	84
630	630 A	86

HRC bus-mounted fuse switch disconnector housing

GST 2015 - X	046 015 __
GST 2025 - X	046 005 __
GST 4025 - X	046 025 __
GST 4035 - X	046 035 __
GST 4045 - X	046 045 __
GST 4115, 4116 - X	046 116 01 (250 A) 046 115 01 (400 A) 046 117 01 (630 A)

X	Max. current	Order number suffix
250	250 A	04
400	400 A	84
630	630 A	86

Neozed bus-mounted fuse housing

GSN 225 - X	055 225 __
GSN 4210 - X	055 410 __
GSN 325 - X Plus	055 325 __
GSN 325 - X - KT Plus	056 625 __
GSN 5210 - X Plus	055 510 __
GSN 5212 - X Plus	055 512 __

X	Max. current	Order number suffix
250	250 A	04
400	400 A	84
630	630 A	86

GTi Plus housing

GTA 328-t Plus	015 328 01
GTA 328-KT-t Plus	016 328 01
GTA 556-t Plus	014 556 01
GSi 35X Plus	014 35X 01
GSi 35X Plus, GSi 55X Plus	041 35X 01, 041 55X 01
GST 501 KN - X Plus	047 501 __

X	Max. current	Order number suffix
3	250 A	
4	400 A	
6	630 A	
250	250 A	04
400	400 A	84
630	630 A	86

AC