fischer elektronik

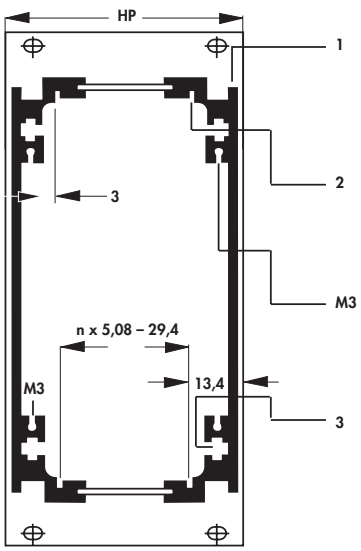
Insert modules for 19" subracks, 3 U

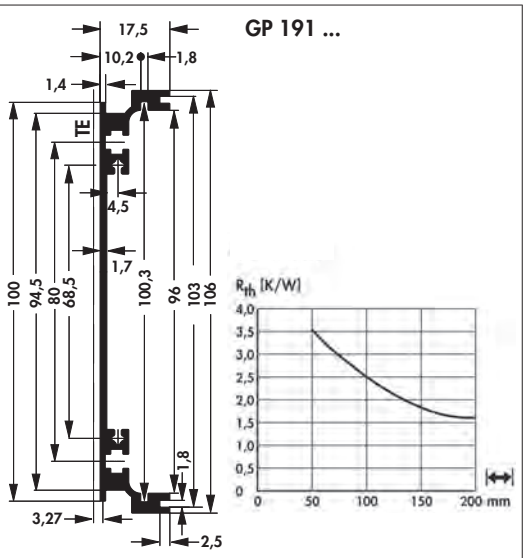
Design A

– standard insert module, with T-grooves for threaded rails, slide nuts or screw head
– rear view without end plate

1 = guide ridge for 19" cases; **2** = slot for Eurocard: distance to guide ridge 2 width-units: 2 x 5.08 mm;
3 = slot for threaded rails, hexagon screws respectively screw nuts M 3







art. no.	Surface	HP	art. no.	Surface	HP	art. no.	Surface	HP
AME 08 ...		8	**ASA 08 ...**		8	**ATP 08 ...**		8
AME 09 ...		9	**ASA 09 ...**		9	**ATP 09 ...**		9
AME 10 ...		10	**ASA 10 ...**		10	**ATP 10 ...**		10
AME 14 ...		14	**ASA 14 ...**		14	**ATP 14 ...**		14
AME 20 ...	ME	20	**ASA 20 ...**	SA	20	**ATP 20 ...**	TP	20
AME 21 ...		21	**ASA 21 ...**		21	**ATP 21 ...**		21
AME 24 ...		24	**ASA 24 ...**		24	**ATP 24 ...**		24
AME 28 ...		28	**ASA 28 ...**		28	**ATP 28 ...**		28
AME 42 ...		42	**ASA 42 ...**		42	**ATP 42 ...**		42

please indicate:

... insert depth
160 220 mm

... perforated cover panel (optional)
L

... cut-out of rear panel
R 1, R 2, R 3

... handle (optional)
KG = plasctic-handle
AG = aluminium-handle

ME = front panel, profiles and rear panel natural colour anodised
SA = front panel natural colour anodised, profiles and rear panel black anodised
TP = front panel, profiles and rear panel transparent passivated
cut-out of rear panel R 1 - R 3 explanation page **available rear panels** ➔ N 45

Profile section

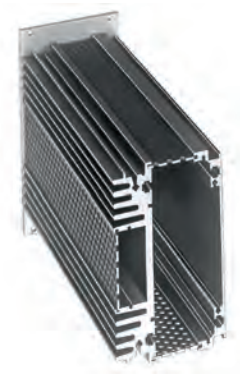
art. no.	Surface	dim. [mm] ⟷
GP 191 1000 AL	AL	1000
GP 191 166 ME	ME	166
GP 191 226 ME		226
GP 191 1000 ME		1000

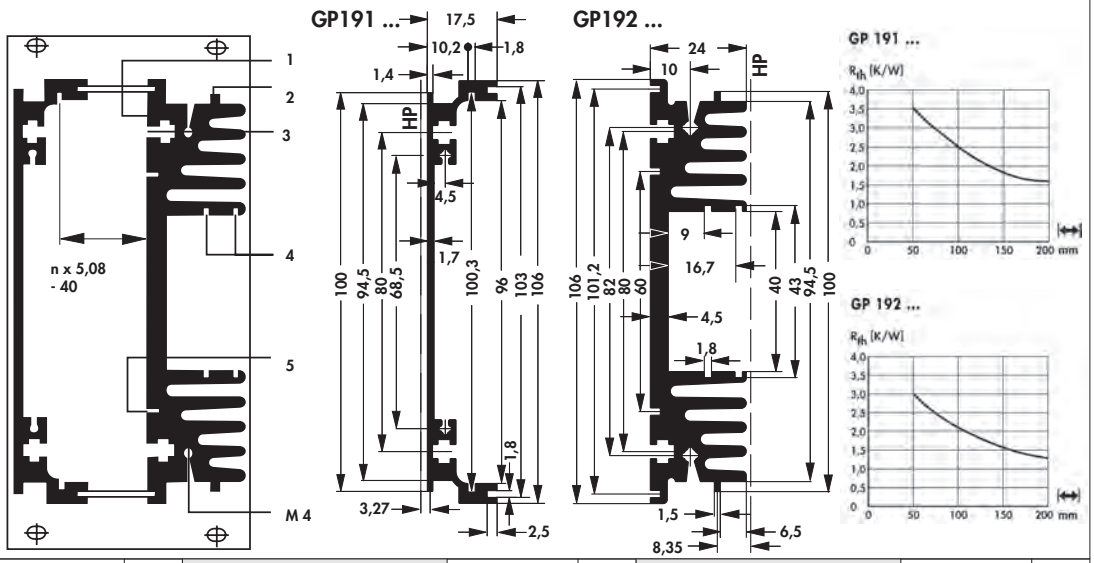
AL = nature degreased
ME = natural colour anodised

Design C

– with T-grooves for threaded strips, slide nuts M 3 or screw heads
– each side of the insert module with heatsink, incl. guide rails for the cover panels or PCBs
– the guide slots of the outer fins fit into 19" subracks
– upon request the side panel profile can be drilled to all common used transistor pin layouts
– rear view without end plate

1 = guide ridge for 19" cases; **2** = slots for outer plates, cover panels and perforated sheets;
3 = slots for threaded rails, square nuts M 3 and hexagon screws; **4** = slots for integrated circuits, cover panels and perforated sheets;
5 = slots for application of chassis plates, separating plates or PCBs





art. no.	Surface	HP	art. no.	Surface	HP	art. no.	Surface	HP
CME 24 ...	ME	24	**CSA 24 ...**	SA	24	**CTP 24 ...**	TP	24

please indicate:
... insert depth
160 220 mm
... perforated cover panel (optional)
L
... cut-out of rear panel
R 1, R 2, R 3
... handle (optional)
KG = plasctic-handle
AG = aluminium-handle

ME = front panel, profiles and rear panel natural colour anodised
SA = front panel natural colour anodised, profiles and rear panel black anodised
TP = front panel, profiles and rear panel transparent passivated
cut-out of rear panel R 1 - R 3 explanation page **available rear panels →** N 45

Profile section

art. no.	Surface	dim. [mm] ↔	art. no.	Surface	dim. [mm] ↔
GP 191 1000 AL	AL	1000	**GP 192 1000 AL**	AL	1000
GP 191 166 ME	ME	166	**GP 192 166 ME**	ME	166
GP 191 226 ME		226	**GP 192 226 ME**		226
GP 191 1000 ME		1000	**GP 192 1000 ME**		1000

AL = nature degreased
ME = natural colour anodised

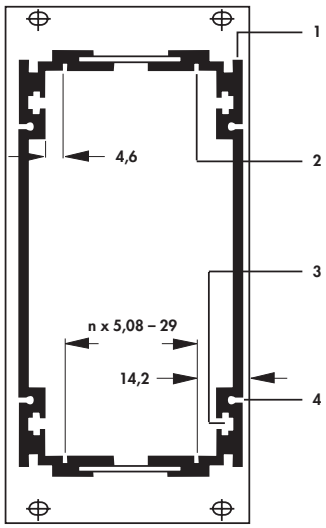
Insert modules for 19" subracks, 3 U

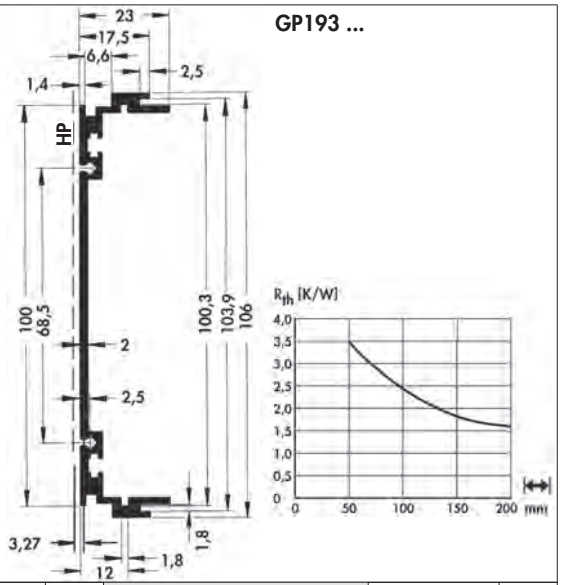
Design E

– standard insert module, with T-grooves for threaded strips, slide nuts M 3 or screw heads
– external screw channels prevent short-circuiting by screw cuttings
– rear view without end plate

1 = guide ridge for 19" case; **2** = slot for Eurocard; **3** = slot for threaded rails, hexagon screws respectively screw nuts M 3;
4 = external screw channel M 3







art. no.	Surface	HP	art. no.	Surface	HP	art. no.	Surface	HP
EME 12 ...		12	**ESA 12 ...**		12	**ETP 12 ...**		12
EME 14 ...		14	**ESA 14 ...**		14	**ETP 14 ...**		14
EME 16 ...		16	**ESA 16 ...**		16	**ETP 16 ...**		16
EME 21 ...	ME	21	**ESA 21 ...**	SA	21	**ETP 21 ...**	TP	21
EME 24 ...		24	**ESA 24 ...**		24	**ETP 24 ...**		24
EME 28 ...		28	**ESA 28 ...**		28	**ETP 28 ...**		28
EME 42 ...		42	**ESA 42 ...**		42	**ETP 42 ...**		42

please indicate:

... insert depth
160 220 mm

... perforated cover panel (optional)
L

... cut-out of rear panel
R 1, R 2, R 3

... handle (optional)
KG = plasctic-handle
AG = aluminium-handle

ME = front panel, profiles and rear panel natural colour anodised
SA = front panel natural colour anodised, profiles and rear panel black anodised
TP = front panel, profiles and rear panel transparent passivated
cut-out of rear panel R 1 - R 3 explanation page **available rear panels** ➔ N 45

Profile section

art. no.	Surface	dim. [mm] ⟷
GP 193 1000 AL	AL	1000
GP 193 166 ME	ME	166
GP 193 226 ME		226
GP 193 1000 ME		1000

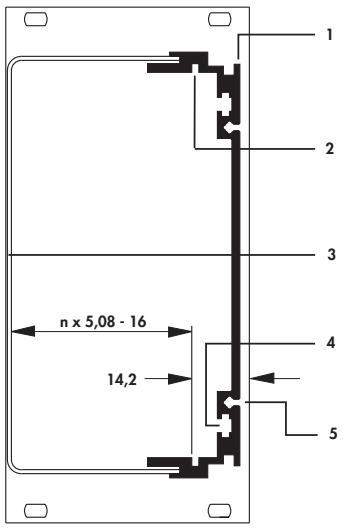
AL = nature degreased
ME = natural colour anodised

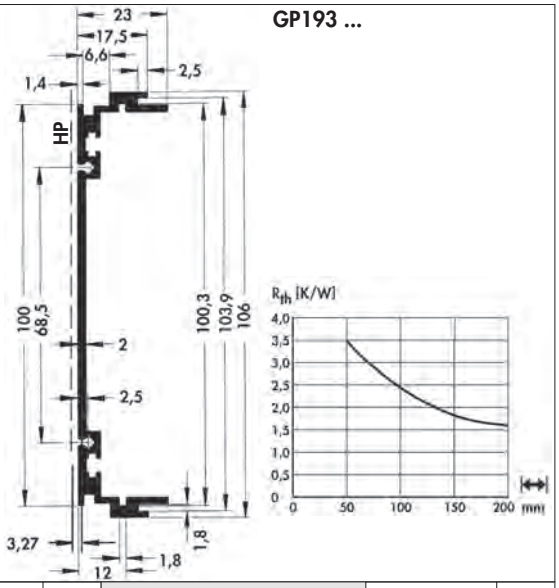
Design F

– with T-grooves for chassis plates, threaded rails for slide nuts or screw heads
– the insert module according to design F consists of one profile type **GP 193** (with external screw channel), one front panel and one cover plate
– the cover plate has ventilation slots
– rear view

1 = guide ridge for 19" subrack; **2** = slot for Eurocard; **3** = cover plate;
4 = slot for threaded rails, hexagon screws respectively screw nuts M 3; **5** = external screw channel M 3







art. no.	Surface	HP	art. no.	Surface	HP	art. no.	Surface	HP
FME 06 ...	ME	6	**FSA 06 ...**	SA	6	**FTP 06 ...**	TP	6
FME 07 ...		7	**FSA 07 ...**		7	**FTP 07 ...**		7
FME 08 ...		8	**FSA 08 ...**		8	**FTP 08 ...**		8
FME 10 ...		10	**FSA 10 ...**		10	**FTP 10 ...**		10
FME 12 ...		12	**FSA 12 ...**		12	**FTP 12 ...**		12
FME 14 ...		14	**FSA 14 ...**		14	**FTP 14 ...**		14

please indicate:
... insert depth
160 220 mm
... handle (optional)
KG = plasctic-handle
AG = aluminium-handle
... cut-out of rear panel
R 1, R 2, R 3

ME = front panel, profiles and rear panel natural colour anodised
SA = front panel natural colour anodised, profiles and rear panel black anodised
TP = front panel, profiles and rear panel transparent passivated
cut-out of rear panel R 1 - R 3 explanation page **available rear panels** ➔ N 45

Profile section

art. no.	Surface	dim. [mm] ⟷
GP 193 1000 AL	AL	1000
GP 193 166 ME	ME	166
GP 193 226 ME		226
GP 193 1000 ME		1000

AL = nature degreased
ME = natural colour anodised

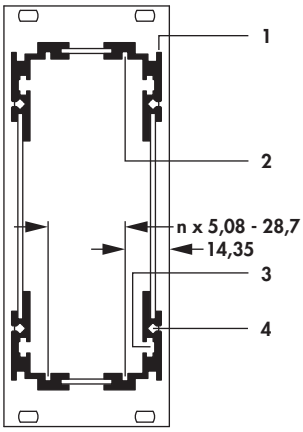
Insert modules for 19" subracks, 3 U

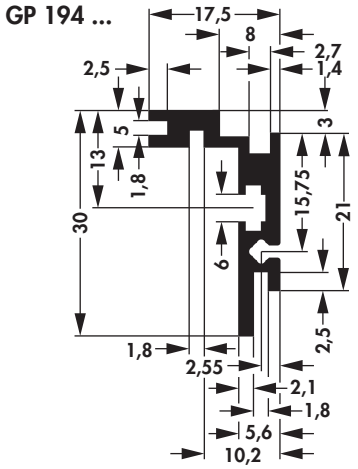
Design G

– insert modules made of four corner extrusions with T-grooves for threaded rails, slide nuts M 3 or screw heads
– with the corner extrusions the insert modules can be produced in any standard seize and in any customer specific seize
– external screw channels prevent short circuits by screw swarfs
– photo view from rear with removed back panel

1 = guide ridge for 19" case; **2** = slot for PCB guides;
3 = slot for threaded rails, hexagon screws respectively screw nuts M 3; **4** = external screw channel M 3







art. no.	Surface	HP	art. no.	Surface	HP	art. no.	Surface	HP
GME 10 ...	ME	10	**GSA 10 ...**	SA	10	**GTP 10 ...**	TP	10
GME 12 ...		12	**GSA 12 ...**		12	**GTP 12 ...**		12
GME 14 ...		14	**GSA 14 ...**		14	**GTP 14 ...**		14
GME 16 ...		16	**GSA 16 ...**		16	**GTP 16 ...**		16
GME 20 ...		20	**GSA 20 ...**		20	**GTP 20 ...**		20

please indicate:

... insert depth
160 220 mm

... perforated cover panel (optional)
L

... cut-out of rear panel
R 1, R 2, R 3

... handle (optional)
KG = plasctic-handle
AG = aluminium-handle

ME = front panel, profiles and rear panel natural colour anodised
SA = front panel natural colour anodised, profiles and rear panel black anodised
TP = front panel, profiles and rear panel transparent passivated
cut-out of rear panel R 1 - R 3 explanation page **available rear panels** ➔ N 45

Profile section

art. no.	Surface	dim. [mm] ⟷
GP 194 1000 AL	AL	1000
GP 194 166 ME	ME	166
GP 194 226 ME		226
GP 194 1000 ME		1000

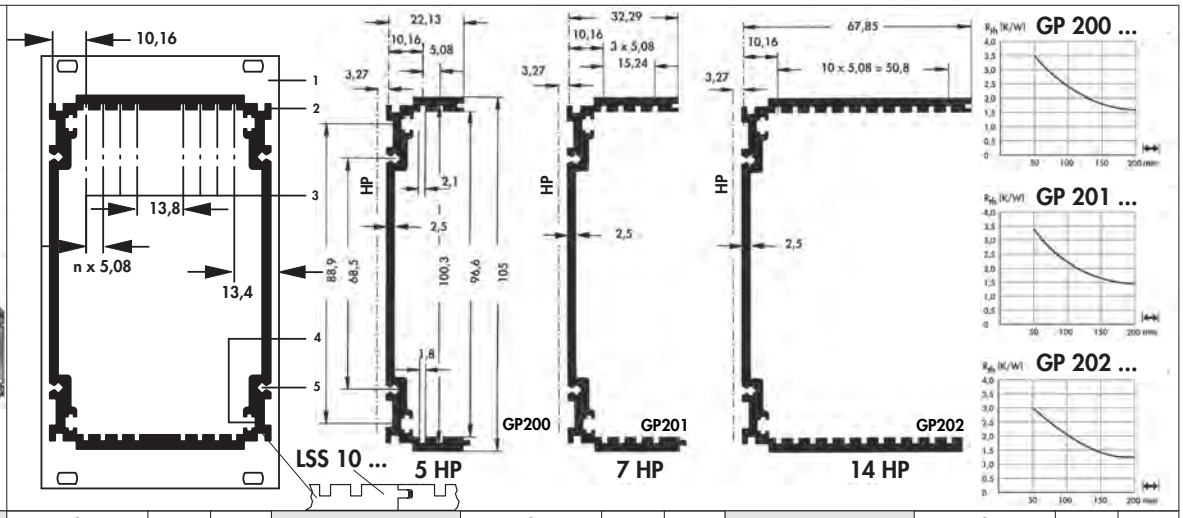
AL = nature degreased
ME = natural colour anodised

Design HB

– HF-shielded insert module with integrated card guide
– with T-grooves for threaded strips or M 2.5 square nuts
– the insert module HB consists of two aluminium profiles, which are assembled to a tubus, as well as front panel and rear panel
– upon request the profiles of the module can be combined with the profiles of our case series **KO**
– guide grooves in the aluminium profile allow parallel placing of several Eurocards
– if **TP** (chrome-free transparent passivated) is chosen as surface treatment the module can shield high-frequency radiation
– improvement of the shielding by means of insertion of conductive silicone tubes in the longitudinal groove art. no. **LSS 10** ➔ M 85

1 = front plate; **2** = guide ridge for 19" subrack; **3** = slot for Eurocard;
4 = slot for threaded strips, respectively square nuts M 2.5; **5** = external screw channel M 3





art. no.	Surface	HP	n	art. no.	Surface	HP	n	art. no.	Surface	HP	n
HBME 10 ...	ME	10	4	**HBSA 10 ...**	SA	10	4	**HBTP 10 ...**	TP	10	4
HBME 12 ...		12	6	**HBSA 12 ...**		12	6	**HBTP 12 ...**		12	6
HBME 14 ...		14	8	**HBSA 14 ...**		14	8	**HBTP 14 ...**		14	8
HBME 19 ...		19	13	**HBSA 19 ...**		19	13	**HBTP 19 ...**		19	13
HBME 21 ...		21	15	**HBSA 21 ...**		21	15	**HBTP 21 ...**		21	15
HBME 28 ...		28	22	**HBSA 28 ...**		28	22	**HBTP 28 ...**		28	22

please indicate:
... insert depth
160 220 mm
... handle (optional)
KG = plasctic-handle
AG = aluminium-handle
... cut-out of rear panel
R 1, R 2, R 3

ME = front panel, profiles and rear panel natural colour anodised
SA = front panel natural colour anodised, profiles and rear panel black anodised
TP = front panel, profiles and rear panel transparent passivated
cut-out of rear panel R 1 - R 3 explanation page **available rear panels** ➔ N 45

Profile section

art. no.	Surface	dim. [mm] ⟷	art. no.	Surface	dim. [mm] ⟷	art. no.	Surface	dim. [mm] ⟷
GP 200 1000 AL	AL	1000	**GP 201 1000 AL**	AL	1000	**GP 202 1000 AL**	AL	1000
GP 200 167 ME	ME	167	**GP 201 167 ME**	ME	167	**GP 202 167 ME**	ME	167
GP 200 227 ME		227	**GP 201 227 ME**		227	**GP 202 1000 ME**		1000
GP 200 1000 ME		1000	**GP 201 1000 ME**		1000	**GP 202 227 ME**		227

AL = nature degreased
ME = natural colour anodised

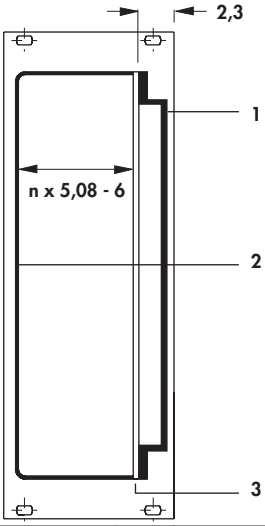
Insert modules for 19" subracks, 3 U

Design I

– shielding panel made of aluminium for your 100 x 160 mm Eurocard
– compatible PCB cover made of plastic and front panels
– rear view

1 = PCB cover **LDK 3 160** ➔ N 59; **2** = shielding panel; **3** = Eurocard





art. no.	Surface	HP	art. no.	Surface	HP	art. no.	Surface	HP
IME 04 ...	ME	4	**ISA 04 ...**	SA	4	**ITP 04 ...**	TP	4
IME 05 ...		5	**ISA 05 ...**		5	**ITP 05 ...**		5
IME 06 ...		6	**ISA 06 ...**		6	**ITP 06 ...**		6

please indicate:

... insert depth
160 220 mm

... perforated cover panel (optional)
L

... cut-out of rear panel
R 1, R 2, R 3

... handle (optional)
KG = plasctic-handle
AG = aluminium-handle

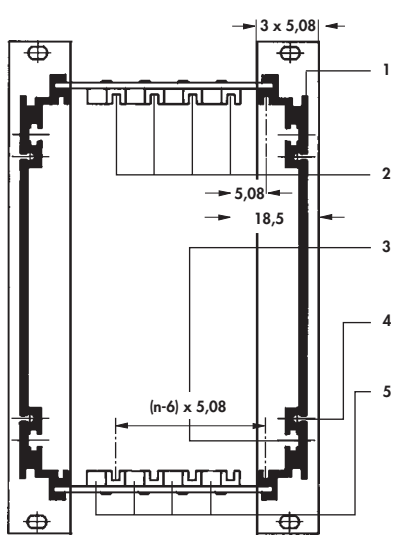
ME = front panel, profiles and rear panel natural colour anodised
SA = front panel natural colour anodised, profiles and rear panel black anodised
TP = front panel, profiles and rear panel transparent passivated
cut-out of rear panel R 1 - R 3 explanation page **available rear panels ➔** N 45

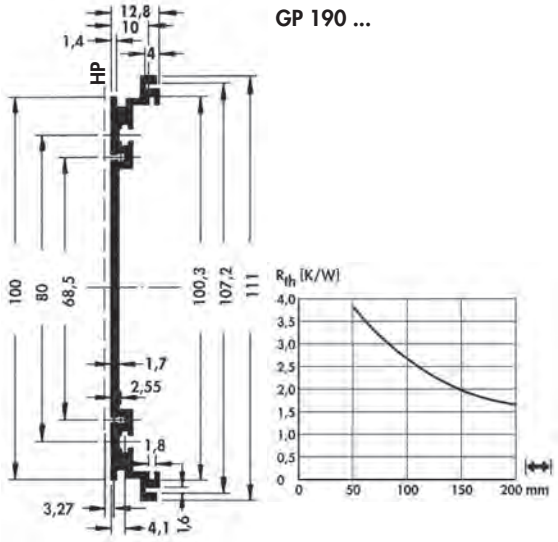
Design L

– with T-grooves for threaded strips, slide nuts M 3 or screw heads
– external screw channels prevent short-circuiting by screw cuttings
– perforated cover panel for ventilation and for insertion of guide rails **FSB KW 160** ➔ N 49
– several eurocards with mounted part front panel **TFP KG R 3** ➔ N 54 can be put together as one functional block
– by using the rear panel **R 5** several female connectors can be mounted for the internal wiring of the cards

1 = guide ridge for 19" case; **2** = slot for Eurocard; **3** = slot for hole spacing strips, hexagon screws respectively screw nuts M 3
4 = external screw channel M 3; **5** = guide rails for mounting in the perforated cover panel







art. no.	Surface	HP	art. no.	Surface	HP	art. no.	Surface	HP
LME 14 ...	ME	14	**LSA 14 ...**	SA	14	**LTP 14 ...**	TP	14
LME 21 ...		21	**LSA 21 ...**		21	**LTP 21 ...**		21
LME 28 ...		28	**LSA 28 ...**		28	**LTP 28 ...**		28

please indicate:
... insert depth
160 220 mm
... handle (optional)
KG = plasctic-handle
AG = aluminium-handle
... cut-out of rear panel
R 1, R 2, R 3, R 5

ME = front panel, profiles and rear panel natural colour anodised
SA = front panel natural colour anodised, profiles and rear panel black anodised
TP = front panel, profiles and rear panel transparent passivated
cut-out of rear panel R 1 - R 3 / R 5 explanation page **available rear panels** ➔ N 45

Profile section

art. no.	Surface	dim. [mm] ⟷
GP 190 1000 AL	AL	1000
GP 190 167 ME	ME	167
GP 190 227 ME		227
GP 190 1000 ME		1000

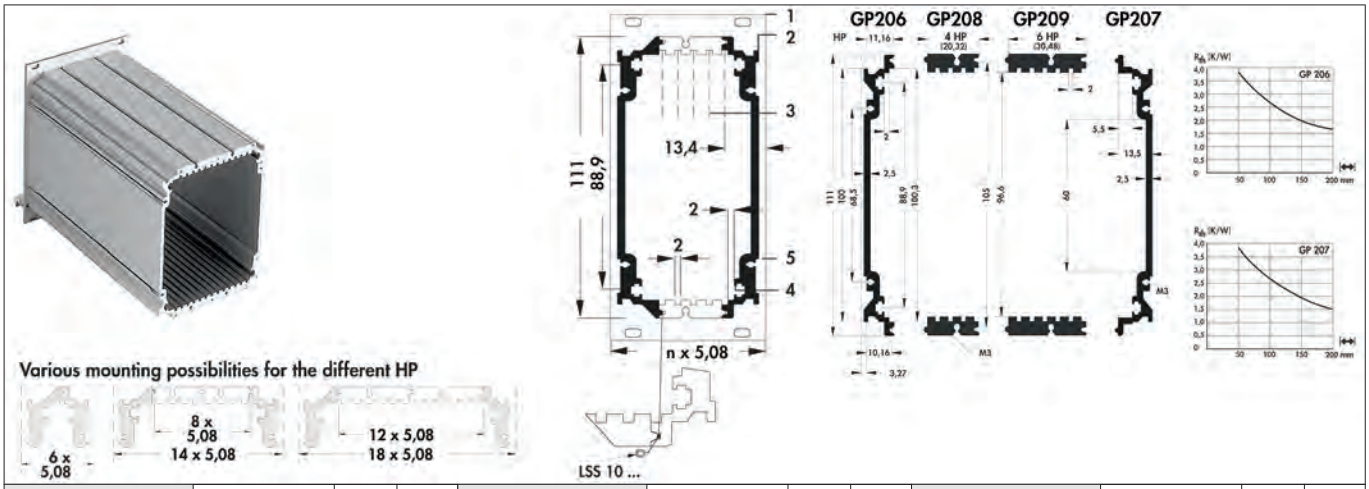
AL = nature degreased
ME = natural colour anodised

Insert modules for 19" subracks, 3 U

Design N

- grid spacing module consisting of left and right aluminium side profiles and aluminium intermediate profiles acc. to the spacing widths (HP)
- standardised insertion on the left and right side into guide rails; continuous installation grid space of 1 HP (5.08 mm)
- specially designed for BUS-PCB wiring
- good EMC screening due to narrow screw grid space to the rear and front panels as well as chrome-free transparent passivated surface
- improvement of screening features by insertion of a conductive silicon tube art. no. **LSS 10** ➔ M 85 into the longitudinal groove
- front panel with continuous aluminium (**AG**) or plastic (**KG**) handle (≥16 HP = 2 plastic handles)
- rear panel cut-out **R 2 / R 3** up from 14 HP possible

1 = front panel; **2** = guide ridge for 19" subrack; **3** = slot for Eurocard guide;
4 = slot for threaded rails respectively square nut M 2.5; **5** = external screw channel M 3



art. no.	Surface	HP	n	art. no.	Surface	HP	n	art. no.	Surface	HP	n
NME 06 ...	ME	6	1	**NSA 06 ...**	SA	6	1	**NTP 06 ...**	TP	6	1
NME 14 ...		14	9	**NSA 14 ...**		14	9	**NTP 14 ...**		14	9
NME 18 ...		18	13	**NSA 18 ...**		18	13	**NTP 18 ...**		18	13

please indicate:

... insert depth
160 220 mm

... handle (optional)
KG = plasctic-handle
AG = aluminium-handle

... cut-out of rear panel
R 1, R 2, R 3

ME = front panel, profiles and rear panel natural colour anodised
SA = front panel natural colour anodised, profiles and rear panel black anodised
TP = front panel, profiles and rear panel transparent passivated
cut-out of rear panel R 1 - R 3 explanation page **available rear panels** ➔ N 45

Profile section

art. no.	Surface	dim. [mm] ⟷	art. no.	Surface	dim. [mm] ⟷
GP 206 1000 AL	AL	1000	**GP 208 1000 AL**	AL	1000
GP 206 167 ME	ME	167	**GP 208 167 ME**	ME	167
GP 206 227 ME		227	**GP 208 227 ME**		227
GP 206 1000 ME		1000	**GP 208 1000 ME**		1000
GP 207 1000 AL	AL		**GP 209 1000 AL**	AL	
GP 207 167 ME	ME	167	**GP 209 167 ME**	ME	167
GP 207 227 ME		227	**GP 209 227 ME**		227
GP 207 1000 ME		1000	**GP 209 1000 ME**		1000

AL = nature degreased
ME = natural colour anodised