SIEMENS

Data sheet

3NP1144-1DA20



SENTRON, fuse switch disconnector 3NP1, 4-pole, NH1, 250 A, for assembly and installation on mounting plate, Box terminal, cover level 70mm

product brand name SENTRON product designation 3NP1 fuse switch disconnector design of the product cover level 70 mm design of the safety monitoring Without design of the safety monitoring Without design of the load switch / strip form No Type of the driving mechanism / motor drive No General technical data number of poles 1 4 type of device For assembly and installation on mounting plate size of disconnecting link 1 and 0 size of fuse switch / imaximum 32 kA permissible 0.65	Model			
design of the product cover level 70 mm design of the safety monitoring Without design of the safety monitoring Without design of the safety monitoring Without design of the safety monitoring Cover handle design of the load switch / strip form No Type of the driving mechanism / motor drive No General technical data number of poles 1 1 size of disconnecting link 1 and 0 size of dusce For assembly and installation on mounting plate size of fuse link 1 and 0 let-through current / with closed switch / maximum 32 kA power factor 0.65 • at AC-22 B 0.65 • at AC-23 B 0.45 • with capacitive load -0.25 fuse system LV HRC fuse degree of pollution 2 / at AC / rated value 690 V • with degree of pollution 3 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 690 V • at AC / rated value 0.95 surge voltage 8 kV • at DC / rated value / maximum 690 V • at DC / rated value / maximum 690 V • at DC / rated value / maximum 690 V • at DC / rated	product brand name	SENTRON		
design of the safety monitoring Without design of the actuating element Cover handle design of the load switch / strip form No type of the driving mechanism / motor drive No General technical data 4 number of poles 4 type of device For assembly and installation on mounting plate size of disconnecting link 1 and 0 size of fuse link NH0, NH1 let-through current / with closed switch / maximum 32 kA power factor 0.65 • at AC-22 B 0.65 • at AC-23 B 0.45 • with capacitive load -0.25 fuse system LV HRC fuse degree of pollution 3 Voltage 690 V • with degree of pollution 3 / at AC / rated value 690 V • with degree of pollution 3 / at AC / rated value 0.95 surge voltage resistance / rated value 690 V • at AC / rated value 84V operating voltage 690 V • at AC / rated value 890 V • at AC / rated value 890 V • at AC / rated value </td <td>product designation</td> <td colspan="3">3NP1 fuse switch disconnector</td>	product designation	3NP1 fuse switch disconnector		
design of the actuating element Cover handle design of the load switch / strip form No type of the driving mechanism / motor drive No number of poles 4 type of device For assembly and installation on mounting plate size of disconnecting link 1 and 0 mechanical service life (switching cycles) / typical 1 600 power factor 0.65 • at AC-22 B 0.65 • at AC-23 B 0.45 • with capacitive load -0.25 fuse system LV HRC fuse degree of pollution 3 Voltage 690 V • with degree of pollution 3 / at AC / rated value 690 V • with degree of pollution 3 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 690 V	design of the product	cover level 70 mm		
design of the load switch / strip form No type of the driving mechanism / motor drive No General technical data number of poles 1 4 type of device For assembly and installation on mounting plate size of fuse link 1 and 0 size of fuse link NH0, NH1 left-through current / with closed switch / maximum 32 kA permissible 1 600 power factor 0.65 • at AC-22 B 0.66 • at AC-23 B 0.45 • with capacitive load -0.25 fuse system LV HRC fuse degree of pollution 3 Voltage 690 V insulation voltage 690 V e with degree of pollution 3 / at AC / rated value 690 V e with degree of pollution 2 / at AC / rated value 690 V e with degree of pollution 2 / at AC / rated value 690 V e with degree of pollution 2 / at AC / rated value 690 V e at AC / rated value 690 V e at AC / rated value 8 kV operating voltage 690 V e at AC / rated value / maximum	design of the safety monitoring	Without		
type of the driving mechanism / motor drive No General technical data 4 number of poles 4 type of device For assembly and installation on mounting plate size of disconnecting link 1 and 0 size of fuse link NH0, NH1 let-through current / with closed switch / maximum permissible 22 kA mechanical service life (switching cycles) / typical 1 600 power factor 0.65 • at AC-22 B 0.65 • at AC-23 B 0.45 • with capacitive load -0.25 fuse system LV HRC fuse degree of pollution 3 Voltage 690 V • with degree of pollution 3 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 8kV operating voltage 690 V • at AC / rated value 8kV operating voltage resistance / rated value 8kV operating voltage 690 V • at AC / rated value / maximum 690 V	design of the actuating element	Cover handle		
General technical data 4 number of poles 4 type of device For assembly and installation on mounting plate size of disconnecting link 1 and 0 size of fuse link NH0, NH1 let-through current / with closed switch / maximum permissible 32 kA mechanical service life (switching cycles) / typical 1 600 power factor 0.65 • at AC-22 B 0.65 • at AC-23 B 0.45 • with capacitive load -0.25 fuse system LV HRC fuse degree of pollution 3 Voltage 690 V • with degree of pollution 3 / at AC / rated value 690 V • with degree of pollution 3 / at AC / rated value 1000 V power factor / at AC-21 B 0.95 surge voltage resistance / rated value 8 kV operating voltage 690 V • at AC / rated value 40 V power factor / at AC-21 B 0.95 surge voltage resistance / rated value 690 V • at AC / rated value 440 V Operating voltage 690 V • at AC / rated value	design of the load switch / strip form	No		
number of poles 4 type of device For assembly and installation on mounting plate size of disconnecting link 1 and 0 size of fuse link 1 and 0 let-through current / with closed switch / maximum 32 kA permissible 1 600 mechanical service life (switching cycles) / typical 1 600 power factor 0.65 • at AC-22 B 0.65 • at AC-23 B 0.45 • with capacitive load -0.25 fuse system LV HRC fuse degree of pollution 3 Voltage 690 V insulation voltage 690 V • with degree of pollution 3 / at AC / rated value 690 V • with degree of pollution 3 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 88 kV operating voltage resistance / rated value 890 V • at AC / rated value / maximum 690 V • at AC / rated value / maximum 690 V • at AC / rated value / maximum 690 V • with closed switch / without cover or cable lug cover 1000 V Porection class IP 990	type of the driving mechanism / motor drive	No		
Impedidevice For assembly and installation on mounting plate size of device 1 and 0 size of fuse link NH0, NH1 let-through current / with closed switch / maximum 32 kA mechanical service life (switching cycles) / typical 1 600 power factor 0.65 • at AC-22 B 0.65 • with capacitive load -0.25 fuse system LV HRC fuse degree of pollution 3 Voltage insulation voltage • with degree of pollution 3 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 8 kV operating voltage eat AC / rated value • at AC / rated value / maximum 690 V • at DC / rated value / maximum 690 V • at DC / rated value / maximum 440 V • at DC / rated value	General technical data			
size of disconnecting link 1 and 0 size of fuse link NH0, NH1 let-through current / with closed switch / maximum 32 kA mechanical service life (switching cycles) / typical 1 600 power factor 0.65 • at AC-22 B 0.65 • with capacitive load -0.25 fuse system LV HRC fuse degree of pollution 3 Voltage 690 V insulation voltage 690 V • with degree of pollution 3 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 1000 V power factor / at AC-21 B 0.95 surge voltage resistance / rated value 8 kV operating voltage 690 V • at AC / rated value 8 kV operating voltage 690 V • with degree of pollution 2 / at AC / rated value 1000 V power factor / at AC-21 B 0.95 surge voltage resistance / rated value 8 kV operating voltage 690 V • at AC / rated value 440 V • at DC / rated value 440 V • at DC / rated value /	number of poles	4		
size of fuse link NH0, NH1 let-through current / with closed switch / maximum 32 kA mechanical service life (switching cycles) / typical 1 600 power factor 1 600 • at AC-22 B 0.65 • at AC-23 B 0.45 • with capacitive load -0.25 fuse system LV HRC fuse degree of pollution 3 Voltage	type of device	For assembly and installation on mounting plate		
let-through current / with closed switch / maximum 32 kA mechanical service life (switching cycles) / typical 1 600 power factor 1 600 e at AC-22 B 0.65 • at AC-23 B 0.45 • with capacitive load -0.25 fuse system LV HRC fuse degree of pollution 3 Voltage 690 V • rated value 690 V • with degree of pollution 3 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 1000 V power factor / at AC-21 B 0.95 surge voltage resistance / rated value 8 kV operating voltage e at AC / rated value • at AC / rated value / maximum 690 V • at DC / rated value / maximum 690 V • at AC / rated value / maximum 690 V • at AC / rated value 1000 V portection class IP 990 V • at DC / rated value / maximum 440 V • at DC / rated value / maximum 440 V • at DC / rated value / maximum 440 V	size of disconnecting link	1 and 0		
permissible 1 600 mechanical service life (switching cycles) / typical 1 600 power factor 0.65 • at AC-22 B 0.45 • with capacitive load -0.25 fuse system LV HRC fuse degree of pollution 3 Voltage insulation voltage 690 V • with degree of pollution 3 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 1000 V power factor / at AC-21 B 0.95 surge voltage resistance / rated value 8 kV operating voltage 690 V • at AC / rated value 440 V • at DC / rated value 440 V • at DC / rated value 440 V • at DC / rated value / maximum 440 V • at DC / rated value / maximum 440 V • at DC / rated value / maximum 440 V • with closed switch / with cover or cable lug cover IP40	size of fuse link	NH0, NH1		
power factor 0.65 • at AC-22 B 0.65 • with capacitive load -0.25 fuse system LV HRC fuse degree of pollution 3 Voltage 3 insulation voltage 690 V • with degree of pollution 3 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 1000 V power factor / at AC-21 B 0.95 surge voltage resistance / rated value 8 kV operating voltage 690 V • at AC / rated value / maximum 690 V • at DC / rated value / maximum 690 V • at DC / rated value / maximum 440 V • at DC / rated value / maximum 440 V • with closed switch / with cover or cable lug cover IP40 • with closed switch / without cover or cable lug cover IP30		32 kA		
• at AC-22 B0.65• at AC-23 B0.45• with capacitive load-0.25fuse systemLV HRC fusedegree of pollution3Voltage• rated value690 V• rated value690 V• with degree of pollution 3 / at AC / rated value690 V• with degree of pollution 2 / at AC / rated value1000 Vpower factor / at AC-21 B0.95surge voltage8 kVoperating voltage8 kV• at AC / rated value440 V• at DC / rated value / maximum690 V• with closed switch / with cover or cable lug coverIP40• with closed switch / without cover or cable lug coverIP40• with closed switch / without cover or cable lug coverIP30	mechanical service life (switching cycles) / typical	1 600		
• at AC-23 B 0.45 • with capacitive load -0.25 fuse system LV HRC fuse degree of pollution 3 Voltage insulation voltage • rated value 690 V • with degree of pollution 3 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 000 V • with degree of pollution 2 / at AC / rated value 0.95 surge voltage resistance / rated value 8 kV operating voltage 690 V • at AC / rated value 890 V • at AC / rated value 0.95 surge voltage resistance / rated value 8 kV operating voltage 690 V • at AC / rated value 440 V • at DC / rated value 440 V • at DC / rated value / maximum 440 V • at DC / rated value / maximum 440 V • at DC / rated value / maximum 440 V • with closed switch / with cover or cable lug cover IP40 • with closed switch / with cover or cable lug cover IP30	power factor			
• with capacitive load -0.25 fuse system LV HRC fuse degree of pollution 3 Voltage insulation voltage • rated value 690 V • with degree of pollution 3 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 1000 V power factor / at AC-21 B 0.95 surge voltage resistance / rated value 8 kV operating voltage 690 V • at AC / rated value 8 kV operating voltage 690 V • at DC / rated value 440 V • at DC / rated value / maximum 440 V • at DC / rated value / maximum 440 V • with closed switch / with cover or cable lug cover IP40 • with closed switch / with cover or cable lug cover IP30	• at AC-22 B	0.65		
fuse system LV HRC fuse degree of pollution 3 Voltage insulation voltage • rated value 690 V • with degree of pollution 3 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 1000 V power factor / at AC-21 B 0.95 surge voltage resistance / rated value 8 kV operating voltage 690 V • at AC / rated value 800 V • at DC / rated value 440 V • at DC / rated value / maximum 440 V • at DC / rated value / maximum 440 V • with closed switch / with cover or cable lug cover IP40 with closed switch / without cover or cable lug cover IP30	• at AC-23 B	0.45		
degree of pollution 3 Voltage insulation voltage • rated value 690 V • with degree of pollution 3 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 1000 V power factor / at AC-21 B 0.95 surge voltage resistance / rated value 8 kV operating voltage 690 V • at AC / rated value / maximum 690 V • at DC / rated value / maximum 690 V • at DC / rated value / maximum 440 V • at DC / rated value / maximum 440 V • at DC / rated value / maximum 440 V • with closed switch / with cover or cable lug cover IP40 with closed switch / with cover or cable lug cover IP30	with capacitive load	-0.25		
Voltage insulation voltage • rated value • with degree of pollution 3 / at AC / rated value • with degree of pollution 2 / at AC / rated value • with degree of pollution 2 / at AC / rated value 1 000 V power factor / at AC-21 B 0.95 surge voltage resistance / rated value 8 kV operating voltage • at AC / rated value / maximum 690 V • at DC / rated value / maximum 690 V • at DC / rated value / maximum 440 V • at DC / rated value / maximum 440 V • at DC / rated value / maximum 9rotection class IP • with closed switch / with cover or cable lug cover • with closed switch / without cover or cable lug cover IP30	fuse system	LV HRC fuse		
insulation voltage 690 V • rated value 690 V • with degree of pollution 3 / at AC / rated value 690 V • with degree of pollution 2 / at AC / rated value 1 000 V power factor / at AC-21 B 0.95 surge voltage resistance / rated value 8 kV operating voltage 690 V • at AC / rated value / maximum 690 V • at DC / rated value / maximum 690 V • at DC / rated value / maximum 440 V • at DC / rated value / maximum 440 V • with closed switch / with cover or cable lug cover IP40 • with closed switch / without cover or cable lug cover IP30	degree of pollution	3		
 rated value with degree of pollution 3 / at AC / rated value with degree of pollution 2 / at AC / rated value 1 000 V power factor / at AC-21 B 0.95 surge voltage resistance / rated value 8 kV operating voltage at AC / rated value / maximum 690 V at DC / rated value / maximum 690 V at DC / rated value / maximum 440 V at DC / rated value / maximum 440 V vith closed switch / with cover or cable lug cover with closed switch / without cover or cable lug cover IP30 	Voltage			
 with degree of pollution 3 / at AC / rated value with degree of pollution 2 / at AC / rated value 1 000 V power factor / at AC-21 B 0.95 surge voltage resistance / rated value 8 kV operating voltage at AC / rated value / maximum 690 V at DC / rated value / maximum 440 V at DC / rated value / maximum 440 V Protection class IP with closed switch / with cover or cable lug cover IP40 with closed switch / without cover or cable lug cover IP30 	insulation voltage			
 with degree of pollution 2 / at AC / rated value power factor / at AC-21 B urge voltage resistance / rated value 8 kV operating voltage at AC / rated value / maximum 690 V at DC / rated value 440 V at DC / rated value / maximum 440 V Protection class IP with closed switch / with cover or cable lug cover with closed switch / without cover or cable lug cover IP40 IP30 	 rated value 	690 V		
power factor / at AC-21 B 0.95 surge voltage resistance / rated value 8 kV operating voltage 8 kV operating voltage 690 V • at AC / rated value / maximum 690 V • at DC / rated value 440 V • at DC / rated value / maximum 440 V Protection class Protection class IP • with closed switch / with cover or cable lug cover IP40 • with closed switch / without cover or cable lug cover IP30	 with degree of pollution 3 / at AC / rated value 	690 V		
surge voltage resistance / rated value 8 kV operating voltage 690 V • at AC / rated value / maximum 690 V • at DC / rated value 440 V • at DC / rated value / maximum 440 V • at DC / rated value / maximum 440 V • at DC / rated value / maximum 440 V Protection class IPate the cover of cable lug cover • with closed switch / with cover or cable lug cover IP40 • with closed switch / without cover or cable lug cover IP30	 with degree of pollution 2 / at AC / rated value 	1 000 V		
operating voltage 690 V • at AC / rated value / maximum 690 V • at DC / rated value 440 V • at DC / rated value / maximum 440 V • at DC / rated value / maximum 440 V Protection class 100 Protection class IP • with closed switch / with cover or cable lug cover 110 Protection class IP40 110 Protection class • with closed switch / with cover or cable lug cover 110 Protection class	power factor / at AC-21 B	0.95		
 at AC / rated value / maximum at DC / rated value at DC / rated value at DC / rated value / maximum 440 V Protection class protection class IP with closed switch / with cover or cable lug cover with closed switch / without cover or cable lug cover IP40 IP30 	surge voltage resistance / rated value	8 kV		
• at DC / rated value440 V• at DC / rated value / maximum440 VProtection classImage: Class of the second	operating voltage			
e at DC / rated value / maximum 440 V Protection class protection class IP e with closed switch / with cover or cable lug cover IP40 e with closed switch / without cover or cable lug cover IP30	 at AC / rated value / maximum 	690 V		
Protection class protection class IP • with closed switch / with cover or cable lug cover • with closed switch / without cover or cable lug cover IP30	 at DC / rated value 	440 V		
protection class IP IP40 • with closed switch / with cover or cable lug cover IP40 • with closed switch / without cover or cable lug cover IP30	 at DC / rated value / maximum 	440 V		
with closed switch / with cover or cable lug cover with closed switch / without cover or cable lug cover IP30	Protection class			
with closed switch / without cover or cable lug cover	protection class IP			
	 with closed switch / with cover or cable lug cover 	IP40		
• on the front IP40	 with closed switch / without cover or cable lug cover 	IP30		
	• on the front	IP40		

• open	IP20
Dissipation	
 with conventional rated thermal current / without 	8 W
fuse / per polewith conventional rated thermal current / without	32 W
fuse / per devicefor rated value of the current / at AC / in hot	31 W
operating state / per pole of the fuse / per fuse / maximum 	23 W
Current	25 W
operational current	
• at 35 °C / rated value	250 A
• at 40 °C / rated value	245 A
• at 45 °C / rated value	240 A
• at 50 °C / rated value	233 A
• at 55 °C / rated value	233 A
• at AC / rated value	250 A
• at AC-23 B / at 690 V / rated value	100 A
 at AC-23 B / at 500 V / rated value 	200 A
 at AC-23 B / at 400 V / rated value 	250 A
 at AC-23 B / at 240 V / rated value 	250 A
 at AC-22 B / at 690 V / rated value 	250 A
 at AC-22 B / at 500 V / rated value 	250 A
 at AC-22 B / at 400 V / rated value 	250 A
 at AC-22 B / at 240 V / rated value 	250 A
 at AC-21 B / at 690 V / rated value 	250 A
 at AC-21 B / at 500 V / rated value 	250 A
 at AC-21 B / at 400 V / rated value 	250 A
 at AC-21 B / at 240 V / rated value 	250 A
• at DC-23 B / at 440 V / rated value	100 A
 at DC-23 B / at 240 V / rated value 	200 A
 at DC-23 B / at 120 V / rated value 	200 A
 at DC-22 B / at 440 V / rated value 	200 A
• at DC-22 B / at 240 V / rated value	250 A
• at DC-22 B / at 120 V / rated value	250 A
• at DC-21 B / at 440 V / rated value	250 A
• at DC-21 B / at 240 V / rated value	250 A
• at DC-21 B / at 120 V / rated value	250 A
let-through current / with high-speed activation / maximum permissible	25 kA
Main circuit	
operational current	
rated value	250 A
with capacitive load / at 400 V / rated value	72 A
with capacitive load / at 500 V / rated value	55 A
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	0
number of NO contacts / for auxiliary contacts	0
Suitability	
suitability for use	No
main switch	No
switch disconnector	Yes
EMERGENCY OFF switch	No
 safety switch 	Yes
maintenance/repair switch	Yes
Product details	

product feature / interlock	Yes
product component / trip indicator	No
 product function / phase failure monitoring 	No
 product component / undervoltage release 	No
 product component / undervoltage release with leading contact 	No
product feature / sealable	Yes
product extension / auxiliary switch	Yes
product extension / optional	
 locking capability 	Yes
motor drive	No
 phase failure monitoring 	Yes
fuse monitoring	Yes
 voltage trigger 	No
 overvoltage protection monitoring 	Yes
Product function	
product function	
fuse monitoring	No
 overvoltage protection monitoring 	No
Short circuit	
conditional short-circuit current (Iq)	
rated value	80 kA
 at AC / at 240 V / with high-speed activation / rated value 	80 kA
 at AC / at 500 V / with high-speed activation / rated value 	80 kA
 at AC / at 690 V / with high-speed activation / rated value 	50 kA
 with closed switch / at AC / at 240 V / rated value 	120 kA
 with closed switch / at AC / at 500 V / rated value 	120 kA
 with closed switch / at AC / at 690 V / rated value 	100 kA
Connections	
arrangement of electrical connectors / for main current circuit	other
connectable conductor cross-section / for main contacts	
 solid or stranded / minimum 	70 mm ²
 solid or stranded / maximum 	185 mm²
 finely stranded / with core end processing / minimum 	70 mm ²
 finely stranded / with core end processing / maximum 	120 mm ²
stranded / minimum	70 mm ²
stranded / maximum	185 mm²
tightening torque / with screw-type terminals minimum 	10 N·m
	10 N·m 10 N·m
maximum type of connectable conductor cross sections / of the	20 x 10 mm
type of connectable conductor cross-sections / of the laminated conductors / maximum	
type of connection technology	Box terminal
type of electrical connection / for main current circuit	box terminal
Mechanical Design	000
height	306 mm
width	253.7 mm
depth fastening method	_ 116 mm mounting plate
fastening method fastening method	mounting plate
floor mounting	Yes
4-hole front mounting	No
 front mounting with central attachment 	No
• None mounting with contral attachment	

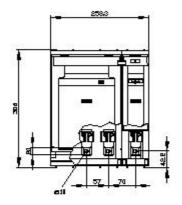
 rail mounting 		No		
mounting position		horizontal/vertical		
Environmental conditions				
ambient temperature / during operation				
• minimum		-25 °C		
maximum		55 °C		
ambient temperature / during storage				
• minimum		-50 °C		
• maximum		80 °C		
General Product Approval	Declaration of Conformity	of Test Certificates		Marine / Shipping
Miscellaneous ERE	CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	DNV-GL

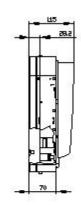
other

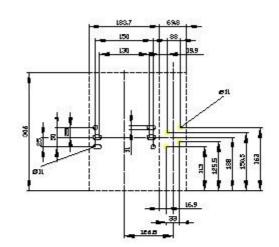
Miscellaneous

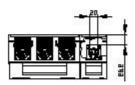
Further information

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