SIEMENS

Data sheet 3NP1164-1DA10



SENTRON, fuse switch disconnector 3NP1, 4-pole, NH3, 630 A, for assembly and installation on mounting plate, Flat terminal, cover level $70\mathrm{mm}$

product brand name product designation design of the product design of the product design of the product design of the safety monitoring design of the safety monitoring Without design of the safety monitoring Without design of the load switch / strip form No No Type of the driving mechanism / motor drive No General technical data number of poles 4 Type of device Size of disconnecting link 3 and 2 Size of fuse link NH2, NH3 let-through current / with closed switch / maximum permissible mechanical service life (switching cycles) / typical power factor at AC-22 B at AC-23 B with capacitive load 1025 Use system degree of pollution 3 Voltage insulation voltage at AC / rated value with degree of pollution 3 / at AC / rated value with degree of pollution 2 / at AC / rated value power factor / at AC-21 B surge voltage resistance / rated value power factor / at AC-21 B surge voltage resistance / rated value at AC / rated value / maximum at AC / rated value / maximum at AC / rated value / maximum at AC / rated value / with degree of pollution 2 / at AC / rated value with degree of pollution 2 / at AC / rated value at AC / rated value / maximum at AC / rated value / rated value at AC / rated valu	Model		
design of the product design of the safety monitoring Without 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 General technical data number of poles Lype of device Size of disconnecting link Size of fuse link Ilet-through current / with closed switch / maximum permissible mechanical service life (switching cycles) / typical power factor at AC-22 B at AC-22 B at AC-23 B with capacitive load -0.25 fuse system Ly HRC fuse degree of pollution 3 Voltage insulation voltage a vith 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 a with degree of pollution 2 / at AC / rated value a th AC-21 B Surge voltage resistance / rated value at AC / rated value / maximum at AC / rated value / maximum at AC / rated value / maximum at AC / rated value / maximum at AC / rated value / maximum at AC / rated value / maximum at AC / rated value / maximum at AC / rated value / maximum at CC / rated value / maximum at DC / rated value / maximum at DC / rated value / maximum with closed switch / with cover or cable lug cover with closed switch / without cover or cable lug cover with closed switch / without cover or cable lug cover with closed switch / without cover or cable lug cover with closed switch / without cover or cable lug cover popen	product brand name	SENTRON	
design of the safety monitoring design of the actuating element Cover handle Cover	product designation	3NP1 fuse switch disconnector	
design of the load switch / strip form No type of the driving mechanism / motor drive Ceneral technical data number of poles 4 type of device For assembly and installation on mounting plate size of disconnecting link 3 and 2 size of fuse link NH2, NH3 let-through current / with closed switch / maximum permissible mechanical service life (switching cycles) / typical 1 000 power factor • at AC-22 B • at AC-23 B • with capacitive load -0.25 fuse system LV HRC fuse degree of pollution 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 • with degree of pollution 2 / at AC / rated value • with degree resistance / rated value • with degree resistance / rated value • at AC / rated value / maximum • at AC / rated value / water w	design of the product	cover level 70 mm	
design of the load switch / strip form type of the driving mechanism / motor drive Reneral technical data number of poles type of device size of disconnecting link size of fuse link let-through current / with closed switch / maximum permissible mechanical service life (switching cycles) / typical ent AC-22 B ent AC-22 B ent AC-23 B ent AC-23 B ent AC-23 B ent AC-23 B ent AC-24 B ent AC-25 B ent AC-25 B ent AC-26 B ent AC-27 B ent AC-	design of the safety monitoring	Without	
type of the driving mechanism / motor drive General technical data number of poles type of device For assembly and installation on mounting plate size of disconnecting link 3 and 2 size of fuse link NH2, NH3 let-through current / with closed switch / maximum permissible mechanical service life (switching cycles) / typical 1000 power factor • at AC-22 B • at AC-23 B • with capacitive load -0.25 fuse system LV HRC fuse degree of pollution 3 Voltage insulation voltage • rated value • with degree of pollution 2 / at AC / rated value • with degree of pollution 2 / at AC / rated value • with degree of pollution 2 / at AC / rated value • with degree of pollution 2 / at AC / rated value • with degree of pollution 2 / at AC / rated value • with degree of pollution 2 / at AC / rated value • with degree of pollution 2 / at AC / rated value • with degree of pollution 2 / at AC / rated value • with degree of pollution 2 / at AC / rated value • with degree of pollution 2 / at AC / rated value • with degree of pollution 3 / at AC / rated value • with degree of pollution 4 / at AC / rated value • with degree of pollution 5 / at AC / rated value • with degree of pollution 6 / at AC / rated value • with degree of pollution 4 / at AC / rated value • at AC / rated value / maximum • at DC / rated value / maximum • with closed switch / with cover or cable lug cover • with closed switch / without cover or cable lug cover • with closed switch / without cover or cable lug cover • with closed switch / without cover or cable lug cover • with closed switch / without cover or cable lug cover • popen	design of the actuating element	Cover handle	
General technical data number of poles type of device size of disconnecting link size of fuse link let-through current / with closed switch / maximum permissible mechanical service life (switching cycles) / typical power factor at AC-22 B at AC-22 B at AC-23 B biff to apacitive load degree of pollution Voltage insulation voltage at rated value with degree of pollution 3 / at AC / rated value with degree of pollution 3 / at AC / rated value at with degree of pollution 3 / at AC-21 B surge voltage resistance / rated value at DC / rated value / maximum with closed switch / with cover or cable lug cover with closed switch / without cover or cable lug cover with closed switch / without cover or cable lug cover at DC / rated value / with closed switch / without cover or cable lug cover at DC / rated value / with closed switch / without cover or cable lug cover at DC / rated value / with closed switch / without cover or cable lug cover at DC / rated value / with closed switch / without cover or cable lug cover at DC / rated value / with closed switch / without cover or cable lug cover at DC / rated value / with closed switch / without cover or cable lug cover at DC / rated value / with closed switch / without cover or cable lug cover at DC / rated value / with closed switch / without cover or cable lug cover at DC / rated value / with closed switch / without cover or cable lug cover at DC / rated value / with closed switch / without cover or cable lug cover at DC / rated value / with closed switch / without cover or cable lug cover	design of the load switch / strip form	No	
number of poles type of device size of disconnecting link size of fuse link let-through current / with closed switch / maximum permissible mechanical service life (switching cycles) / typical power factor at AC-22 B at AC-23 B at AC-23 B belief through current load certain at AC-24 B at AC-25 B at AC-25 B belief cycles at AC-25 B belief cycles at AC-25 B belief cycles at AC-26 B belief cycles at AC-27 B belief cycles at AC-28 B belief cycles at AC-29 B cycles at AC-29 B belief cycles at AC-29 B belief cycles at AC-29 B belief cycles at AC-29 B cycles at AC-29	type of the driving mechanism / motor drive	No	
type of device	General technical data		
size of disconnecting link size of fuse link NH2, NH3 let-through current / with closed switch / maximum permissible mechanical service life (switching cycles) / typical power factor • at AC-22 B • at AC-23 B • with capacitive load fuse system degree of pollution 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 • with gree of pollution 2 / at AC / rated value 9 wover factor / at AC-21 B surge voltage resistance / rated value • at AC / rated value • at DC / rated value / maximum • at DC / rated value	number of poles	4	
size of fuse link	type of device	For assembly and installation on mounting plate	
let-through current / with closed switch / maximum permissible mechanical service life (switching cycles) / typical power factor at AC-22 B at AC-23 B with capacitive load -0.25 fuse system LV HRC fuse degree of pollution 3 Voltage insulation voltage arated 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 away one factor / at AC-21 B surge voltage resistance / rated value at AC / rated value at AC / rated value at AC / rated value / maximum at AC / rated value / 440 V at DC / rated value / maximum at DC / rated value	size of disconnecting link	3 and 2	
mechanical service life (switching cycles) / typical mechanical service life (switching cycles) / typical power factor at AC-22 B at AC-23 B with capacitive load -0.25 fuse system LV HRC fuse degree of pollution 3 Voltage insulation voltage arated value with degree of pollution 3 / at AC / rated value with degree of pollution 2 / at AC / rated value power factor / at AC-21 B surge voltage resistance / rated value at AC / rated value at AC / rated value / maximum at AC / rated value / 440 V at DC / rated value / maximum at AC / rated value / maximum at AC / rated value / maximum protection class protection class IP with closed switch / with cover or cable lug cover with closed switch / without cover or cable lug cover with closed switch / without cover or cable lug cover popen	size of fuse link	NH2, NH3	
power factor • at AC-22 B • at AC-23 B • with capacitive load • with capacitive load • cu.25 fuse system degree of pollution 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 • with degree of pollution 2 / at AC / rated value power factor / at AC-21 B surge voltage resistance / rated value • at AC / rated value / maximum • at DC / rated value / maximum 1000 V Protection class protection class IP • with closed switch / with cover or cable lug cover • with closed switch / without cover or cable lug cover • with closed switch / without cover or cable lug cover • open		60 kA	
at AC-22 B at AC-23 B bith capacitive load co.25 fuse system cly HRC fuse degree of pollution 3 Voltage insulation voltage at at AC-21 B bith degree of pollution 3 / at AC / rated value bith degree of pollution 2 / at AC / rated value bith degree of pollution 2 / at AC / rated value bith degree of pollution 2 / at AC / rated value bith degree of pollution 2 / at AC / rated value bith degree of pollution 2 / at AC / rated value bith degree of pollution 2 / at AC / rated value bith degree of pollution 2 / at AC / rated value bith degree of pollution 2 / at AC / rated value bith degree of pollution 2 / at AC / rated value bith degree of pollution 2 / at AC / rated value bith degree of pollution 3 / at AC / rated value bith degree of pollution 3 / at AC / rated value bith degree of pollution 3 / at AC / rated value bith degree of pollution 3 / at AC / rated value bith degree of pollution 3 / at AC / rated value bith degree of pollution 3 / at AC / rated value bith degree of pollution 3 / at AC / rated value bith degree of pollution 3 / at AC / rated value bith degree of pollution 3 / at AC / rated value bith degree of pollution 3 / at AC / rated value bith degree of pollution 3 / at AC / rated value bith degree of pollution 3 / at AC / rated value bith degree of pollution 3 / at AC / rated value bith degree of pollution 3 / at AC / rated value bith degree of pollution 3 / at AC / rated value bith degree of pollution 3 / at AC / rated value bith degree of pollution 3 / at AC / rated value bith degree of pollution 3 / at AC / rated value bith degree of pollution 2 / at AC / rated value bith degree of pollution 2 / at AC / rated value bith degree of pollution 2 / at AC / rated value bith degree of pollution 2 / at AC / rated value bith degree of pollution 2 / at AC / rated value bith degree of pollution 2 / at AC / rated value bith degree of pollution 2 / at AC / rated value bith degree of pollution 2 / at AC / rated value bith degree of pollution 2 / at AC / rated value bith degree of pollution 2 / at AC / rated	mechanical service life (switching cycles) / typical	1 000	
• at AC-23 B • with capacitive load -0.25 fuse system degree of pollution 3 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 1000 V power factor / at AC-21 B 0.95 surge voltage resistance / rated value • at AC / rated value / maximum • at DC / rated value / maximum • at DC / rated value / maximum • with closed switch / with cover or cable lug cover • with closed switch / without cover or cable lug cover • with closed switch / without cover or cable lug cover • open	power factor		
with capacitive load fuse system degree of pollution 3 Voltage insulation voltage	• at AC-22 B	0.65	
fuse system degree of pollution 7 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 power factor / at AC-21 B surge voltage resistance / rated value • at AC / rated value / maximum • at DC / rated value / maximum • at DC / rated value / maximum • at DC / rated value / maximum • with closed switch / with cover or cable lug cover • with closed switch / without cover or cable lug cover • with closed switch / without cover or cable lug cover • open	• at AC-23 B	0.35	
degree of pollution 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 • with degree of pollution 2 / 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 surge voltage resistance / rated value • at AC / rated value / maximum 690 V • 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 • with closed switch / without cover or cable lug cover • open	with capacitive load	-0.25	
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 power factor / at AC-21 B surge voltage resistance / rated value • at AC / rated value / maximum • at DC / rated value / maximum • at DC / rated value / maximum • 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 • with closed switch / without cover or cable lug cover • open	fuse system	LV HRC fuse	
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 • with degree of pollution 2 / at AC / rated value 1 000 V power factor / at AC-21 B surge voltage resistance / rated value • at AC / rated value / maximum • at DC / rated value / maximum • at DC / rated value / maximum • at DC / rated value / maximum Protection class protection class IP • with closed switch / with cover or cable lug cover • with closed switch / without cover or cable lug cover • with closed switch / without cover or cable lug cover • open	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 surge voltage resistance / rated value 8 kV operating voltage at AC / rated value / maximum at DC / rated value at DC / rated value / maximum 440 V 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 open IP30 IP20 	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 surge voltage resistance / rated value at AC / rated value / maximum at DC / rated value at DC / rated value / maximum by Open IP40 IP30 IP20 	insulation voltage		
 with degree of pollution 2 / at AC / rated value power factor / at AC-21 B surge voltage resistance / rated value at AC / rated value / maximum at DC / rated value / maximum IP40 with closed switch / with cover or cable lug cover with closed switch / without cover or cable lug cover open IP20 	 rated value 	690 V	
power factor / at AC-21 B surge voltage resistance / rated value • at AC / rated value / maximum • at DC / rated value / maximum • at DC / rated value / maximum • 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 • open • open	 with degree of pollution 3 / at AC / rated value 	690 V	
surge voltage resistance / rated value operating voltage • at AC / rated value / maximum • 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 • open • open	 with degree of pollution 2 / at AC / rated value 	1 000 V	
operating voltage • 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 • with closed switch / without cover or cable lug cover • open IP20	power factor / at AC-21 B	0.95	
at AC / rated value / maximum 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 with closed switch / without cover or cable lug cover IP40 in IP20	surge voltage resistance / rated value	8 kV	
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 open IP40 IP30 IP20	operating voltage		
at DC / rated value / maximum Protection class protection class IP with closed switch / with cover or cable lug cover with closed switch / without cover or cable lug cover with closed switch / without cover or cable lug cover open IP20	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 • open • open IP20	at DC / rated value	440 V	
protection class IP • with closed switch / with cover or cable lug cover • with closed switch / without cover or cable lug cover • open IP40 IP30 IP20	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 open IP40 IP30 IP20 	Protection class		
 with closed switch / without cover or cable lug cover open IP30 IP20 	protection class IP		
• open IP20	 with closed switch / with cover or cable lug cover 	IP40	
	 with closed switch / without cover or cable lug cover 	IP30	
• on the front IP40	• open	IP20	
	on the front	IP40	

Dissipation	
power loss [W]	
with conventional rated thermal current / without fuse / per pole	30 W
with conventional rated thermal current / without fuse / per device	120 W
for rated value of the current / at AC / in hot operating state / per pole	78 W
of the fuse / per fuse / maximum	48 W
Current	
operational current	
• at 35 °C / rated value	630 A
• at 40 °C / rated value	610 A
• at 45 °C / rated value	575 A
• at 50 °C / rated value	555 A
• at 55 °C / rated value	530 A
at AC / rated value	630 A
at AC-71 ated value at AC-23 B / at 690 V / rated value	200 A
• at AC-23 B / at 500 V / rated value	500 A
• at AC-23 B / at 400 V / rated value	630 A
• at AC-23 B / at 400 V / rated value • at AC-23 B / at 240 V / rated value	630 A
• at AC-23 B / at 690 V / rated value	500 A
• at AC-22 B / at 500 V / rated value	630 A
• at AC-22 B / at 500 V / rated value • at AC-22 B / at 400 V / rated value	630 A
• at AC-22 B / at 240 V / rated value	630 A
	630 A
• at AC-21 B / at 240 V / rated value	630 A
 at AC-21 B / at 400 V / rated value at AC-21 B / at 500 V / rated value 	630 A
• at AC-21 B / at 690 V / rated value	630 A
• at DC-23 B / at 440 V / rated value	250 A
• at DC-23 B / at 440 V / rated value	400 A
• at DC-23 B / at 120 V / rated value	400 A
• at DC-23 B / at 440 V / rated value	500 A
• at DC-22 B / at 440 V / rated value	630 A
• at DC-22 B / at 1240 V / rated value	630 A
• at DC-22 B / at 120 V / rated value	630 A
• at DC-21 B / at 440 V / rated value	630 A
• at DC-21 B / at 1240 V / rated value	630 A
let-through current / with high-speed activation / maximum	50 kA
permissible	30 NA
Main circuit	
operational current	
• rated value	630 A
with capacitive load / at 400 V / rated value with capacitive load / at 500 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 a switch disconnector	No Yea
switch disconnector FMERCENCY OFF switch	Yes
EMERGENCY OFF switch Section switch	No Yea
safety switch maintanance (rangin switch)	Yes
maintenance/repair switch	Yes
Product details	
product component	N-
trip indicator	No No
undervoltage release	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 • overvoltage protection monitoring No • solven function • fuse monitoring No • overvoltage protection monitoring No • solven functions arrangement of electrical connectors / for main current circuit connectable conductor cross-section / for main contacts • solid or stranded / minimum 120 mm² • stranded / minimum 300 mm² • stranded / minimum 120 mm² • stranded / minimum 120 mm² • stranded / minimum 300 mm² • stranded / minimum 120 mm² • stranded / minimum 300 mm² • stranded / minimum 120 mm² • stranded / minimum 300 mm² • stranded / minimum 300 mm² • stranded / minimum 120 mm² • stranded / minimum 300 mm² • stranded / minimum 300 mm² • stranded / moximum 300 mm² • stranded / moximum 300 mm² • stranded / moximum 40 N·m • maximum 40 N·m • maximum 40 N·m • maximum 51 N·m • maximum 51 N·m • maximum 61 N·m • maximum 71 N·m • maxi	undervoltage release with leading contact	No	
product extension / auxiliary switch product extension / optional olocking capability motor drive ohase failure monitoring ves ohase failure monitoring ves overvoltage profection monitoring ves overvoltage profection monitoring one of the context			
product extension / optional	· · · · · · · · · · · · · · · · · · ·	-	
International content of the conten	-		
• mator drive No • phase failure monitoring Yes • votage trigger No • overvoltage protection monitoring Yes Product function • fuse monitoring No • overvoltage protection monitoring Other • scland of stranded / maximum 10 Mm² • stranded / maximum 120 mm² • stranded / maximum 10 Nm² • protection for prote		Yes	
• fuse monitoring • votage trigger • overvoltage protection monitoring Product function Foreign For			
• fuse monitoring • votage trigger • overvoltage protection monitoring Product function Foreign For			
voltage trigger vovervoltage protection monitoring Product function product function • fuse monitoring • overvoltage protection monitoring voervoltage protection for main current circuit voervoltage protection for monitoring voervoltage protection for formounting with central attachment voervoltage protection for formounting for front mounting with central attachment voervoltage protection for formounting for for monitoring for for for monitoring for for for monitoring for for for monitoring for for for for for monitoring for			
e overvoltage protection monitoring Product function • fuse monitoring • fuse monitoring • fuse monitoring • fuse monitoring • overvoltage protection monitoring Connections arrangement of electrical connectors / for main current circuit • solid or stranded / minimum • solid or stranded / maximum • stranded / maximum • stranded / minimum • rail mounting • front mounting with central attachment • rail mounting • front mounting with central attachment • rail mounting • rail mounting • rail mounting • minimum • minimum • rail mounting • minimum • minimum • minimum • minimum • minimum • minimum • rail mounting • minimum •			
Product function product function • fuse monitoring • overvoltage protection monitoring No Connections arrangement of electrical connectors / for main current circuit connectable conductor cross-section / for main contacts • solid or stranded / minimum • solid or stranded / maximum • stranded / minimum • maximum 10 N** • minimum • maximum 110 N** • minimum • maximum 120 mm² • 120 mm			
product function • fuse monitoring • overvottage protection monitoring Oconnections arrangement of electrical connectors / for main current circuit connectable conductor cross-section / for main contacts • solid or stranded / minimum • solid or stranded / maximum • maximum type of connectable conductor cross-sections / of the laminated conductors / maximum type of connectable conductor ross-sections / of the laminated conductors / maximum type of electrical connection / for main current circuit blash connection technology type of electrical connection / for main current circuit maximum type of electrical connection / for main current circuit maximum type of electrical connection / for main current circuit maximum type of electrical connection / for main current circuit flastening method fastening method fastening method foor mounting 4 Yes 4-hole front mounting 6 Hoor mounting 6 Fort mounting with central attachment 7 rail mounting 6 ront mounting with central attachment 7 rail mounting 8 ront mounting position mounting position mounting position ambient temperature / during operation minimum m			
• fuse monitoring • overvoltage protection monitoring overvoltage protection monitoring Connections arrangement of electrical connectors / for main current circuit connectable conductor cross-section / for main contacts • solid or stranded / minimum • solid or stranded / maximum • stranded / maximum • stranded / maximum • stranded / maximum 120 mm² • stranded / maximum 2300 mm² tightening torque / with screw-type terminals • minimum • maximum type of connectable conductor cross-sections / of the laminated conductors / maximum type of connecton technology type of electrical connection / for main current circuit busbar connection Machanical Design height 306 mm width 339 mm depth fastening method fastening method • floor mounting • front mounting • front mounting • front mounting with central attachment • rail mounting with central attachment • rail mounting mounting position Environmental conditions ambient temperature / during operation • minimum • maximum 10 No -50 °C ambient temperature / during storage • minimum • maximum • ma			
overvoltage protection monitoring Connections arrangement of electrical connectors / for main current circuit connectable conductor cross-section / for main contacts osolid or stranded / minimum osolid or stranded / maximum stranded / minimum ostranded / maximum stranded / maximum stranded / maximum osolid or stranded / maximum osolid or stranded / maximum stranded / maximum osolid or stranded / maximum stranded / maximum tightening torque / with screw-type terminals minimum omaximum type of connectable conductor cross-sections / of the laminated conductors / maximum type of connectable conductor rorss-sections / of the laminated conductors / maximum type of connection technology type of electrical connection / for main current circuit Mechanical Design Meight identify a some sections Mechanical Design Meight identify a some sections Mechanical Design Mechanical Design Mechanical Design Meight identify a some sections Mechanical Design Monuting plate fastening method infloor mounting if or mounting infort mounting with central attachment in or mounting infort mountin	•	No	
arrangement of electrical connectors / for main current circuit connectable conductor cross-section / for main contacts • solid or stranded / minimum • solid or stranded / maximum • stranded / maximum • stranded / maximum 120 mm² stranded / maximum 120 mm² stranded / maximum 120 mm² stranded / maximum 10 N-m • maximum 12 N·m 12 N·m 140 x 18 mm Iaminated conductors / maximum type of connectable conductor cross-sections / of the laminated conductors / maximum type of electrical connection / for main current circuit Mochanical Design Height 306 mm width 339 mm depth 138.5 mm fastening method • floor mounting • front mounting • front mounting • front mounting mounting position Fourier arian mounting mounting position Fourier arian mounting • maximum - 25 °C ambient temperature / during operation • minimum - 25 °C ambient temperature / during storage • minimum - 55 °C ambient temperature / during storage • minimum - 50 °C e maximum • maximum - 50 °C e minimum - 50 °C e minimum - maximum - solider cross-section / for main current - maximum - doth-minimum - solid or stranded / maximum - solid or stranded / solid or solid - solid or solid or	_		
arrangement of electrical connectors / for main current circuit osolid or stranded / minimum 120 mm² 300 mm² 120 mm 300 mm² 120 mm² 120 mm 300 mm² 120 mm²		1.0	
connectable conductor cross-section / for main contacts solid or stranded / minimum stra		other	
solid or stranded / minimum solid or stranded / maximum stranded / minimum stranded / minimum stranded / minimum stranded / maximum stranded / maximum stranded / maximum stranded / maximum tightening torque / with screw-type terminals • minimum • maximum type of connectable conductor cross-sections / of the laminated conductors / maximum type of connection technology type of connection technology type of electrical connection / for main current circuit Mechanical Design Height 306 mm width 339 mm depth fastening method fastening method • floor mounting • 4-hole front mounting • 4-hole front mounting • rail mounting with central attachment • rail mounting with central attachment • mounting position Environmental conditions ambient temperature / during operation • minimum • minimum ambient temperature / during storage • minimum ambient temperature / during storage • minimum ambient temperature / during storage • minimum • maximum ambient temperature / during storage • minimum • maximum ambient temperature / during storage • minimum • maximum ambient temperature / during storage • minimum • maximum ambient temperature / during storage • minimum • maximum ambient temperature / during storage • minimum • maximum ambient temperature / during storage • minimum • maximum		Caron	
solid or stranded / maximum stranded / minimum stranded / maximum stranded / maximum stranded / maximum stranded / maximum itightening torque / with screw-type terminals minimum maximum type of connectable conductor cross-sections / of the laminated conductors / maximum type of connectable conductors / maximum type of connection technology Flat terminal type of electrical connection / for main current circuit Machanical Design height 306 mm width 339 mm depth fastening method fastening method floor mounting 4-hole front mounting 4-hole front mounting ind industry with central attachment indistrict with a strandard vertical Environmental conditions ambient temperature / during operation iminimum indistrict with a strandard vertical indistrict with a strandard vertical vertical indistrict with a strandard vertical indistrict with	connectable conductor cross-section / for main contacts		
• stranded / minimum • stranded / maximum 120 mm² 300 mm² tightening torque / with screw-type terminals • minimum • maximum 12 N·m type of connectable conductor cross-sections / of the laminated conductors / maximum type of electrical connection / for main current circuit Mochanical Design height 306 mm width 339 mm depth 138.5 mm fastening method • floor mounting • floor mounting • 4-hole front mounting • front mounting with central attachment • rail mounting position mounting position Environmental conditions ambient temperature / during operation • minimum • maximum 120 mm² 300 mm² 10 N·m 40 x 18 mm 40 x 18 x 1	 solid or stranded / minimum 	120 mm²	
tightening torque / with screw-type terminals	 solid or stranded / maximum 	300 mm²	
tightening torque / with screw-type terminals	stranded / minimum	120 mm²	
 • minimum • maximum 12 N·m type of connectable conductor cross-sections / of the laminated conductors / maximum type of connection technology Flat terminal type of electrical connection / for main current circuit busbar connection Mechanical Design height 306 mm width 339 mm depth fastening method floor mounting • floor mounting • front mounting with central attachment • rail mounting • rail mounting mounting position Environmental conditions ambient temperature / during operation • minimum • maximum -50 °C ambient temperature / during storage • minimum • 50 °C maximum maximum 	stranded / maximum	300 mm²	
maximum type of connectable conductor cross-sections / of the laminated conductors / maximum type of connection technology type of electrical connection / for main current circuit Mechanical Design height sold mm width 306 mm width 339 mm depth fastening method fastening method foor mounting • 4-hole front mounting • front mounting with central attachment • rail mounting mounting position Environmental conditions ambient temperature / during operation • maximum • maximum - 55 °C ambient temperature / during storage • minimum • maximum - 50 °C - 50 °C - maximum - sold maximum - sold connection - maximum - sold mm -	tightening torque / with screw-type terminals		
type of connectable conductor cross-sections / of the laminated conductors / maximum type of connection technology type of electrical connection / for main current circuit Mechanical Design height 306 mm width 339 mm depth 138.5 mm fastening method efloor mounting • floor mounting • front mounting with central attachment • rail mounting mounting position Environmental conditions ambient temperature / during operation • minimum • maximum • maximum 40 x 18 mm 40 x	• minimum	10 N·m	
faminated conductors / maximum type of connection technology Flat terminal busbar connection	• maximum	12 N·m	
type of electrical connection / for main current circuit Mechanical Design height width 339 mm depth fastening method fastening method for mounting 4-hole front mounting front mounting rail mounting mounting position Environmental conditions ambient temperature / during operation minimum mini	, ·	40 x 18 mm	
height 306 mm width 339 mm depth 138.5 mm fastening method mounting plate fastening method For mounting Wes 4-hole front mounting with central attachment No Frail mounting Position No Horizontal/vertical Environmental conditions ambient temperature / during operation minimum -25 °C ambient temperature / during storage minimum -50 °C ambient temperature / during storage minimum -50 °C maximum 80 °C	type of connection technology	Flat terminal	
height 306 mm width 339 mm depth 138.5 mm fastening method mounting plate • floor mounting • floor mounting • front mounting with central attachment No • rail mounting • rail mounting mounting position horizontal/vertical Environmental conditions ambient temperature / during operation • minimum • maximum -25 °C ambient temperature / during storage • minimum -50 °C amaximum -50 °C 80 °C	type of electrical connection / for main current circuit	busbar connection	
width depth depth fastening method fastening method floor mounting • floor mounting • 4-hole front mounting • front mounting with central attachment • rail mounting mounting position Environmental conditions ambient temperature / during operation • minimum • maximum -25 °C ambient temperature / during storage • minimum -50 °C amaximum 80 °C	Mechanical Design		
depth 138.5 mm fastening method mounting plate fastening method • floor mounting • floor mounting • front mounting with central attachment No • rail mounting mounting position horizontal/vertical Environmental conditions ambient temperature / during operation • minimum • maximum • maximum -50 °C ambient temperature / during storage • minimum • maximum -50 °C	height	306 mm	
fastening method fastening method • floor mounting • 4-hole front mounting • front mounting with central attachment • rail mounting mounting position Environmental conditions ambient temperature / during operation • maximum • maximum -25 °C ambient temperature / during storage • minimum -50 °C 80 °C	width	339 mm	
fastening method • floor mounting • 4-hole front mounting • front mounting with central attachment • rail mounting mounting position Environmental conditions ambient temperature / during operation • minimum • maximum • minimum • maximum -50 °C ambient temperature / during storage • minimum • maximum -50 °C 80 °C	depth	138.5 mm	
floor mounting 4-hole front mounting front mounting with central attachment rail mounting mounting position more presented by the properties of th	fastening method	mounting plate	
 4-hole front mounting front mounting with central attachment rail mounting no rail mounting 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 	fastening method		
 front mounting with central attachment rail mounting mounting position horizontal/vertical Environmental conditions ambient temperature / during operation minimum maximum 55 °C ambient temperature / during storage minimum -50 °C maximum 80 °C 	floor mounting	Yes	
 rail mounting 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 	4-hole front mounting	No	
 rail mounting 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 		No	
mounting position Environmental conditions ambient temperature / during operation • minimum • maximum 55 °C ambient temperature / during storage • minimum • maximum 80 °C	• rail mounting	No	
ambient temperature / during operation • minimum • maximum 55 °C ambient temperature / during storage • minimum -50 °C • maximum 80 °C		horizontal/vertical	
 minimum maximum 55 °C ambient temperature / during storage minimum maximum 80 °C 	Environmental conditions		
 maximum ambient temperature / during storage minimum maximum maximum 80 °C 	ambient temperature / during operation		
ambient temperature / during storage	• minimum	-25 °C	
 minimum -50 °C maximum 80 °C 	• maximum	55 °C	
• maximum 80 °C	ambient temperature / during storage		
	• minimum	-50 °C	
General Product Approval Declaration of Conformity	• maximum	80 °C	
	General Product Approval		Declaration of Conformity



Confirmation

Miscellaneous







Test Certificates Marine / Shipping other





Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3NP1164-1DA10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3NP1164-1DA10

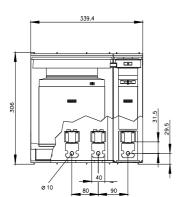
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1164-1DA10

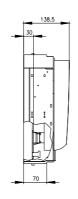
CAx-Online-Generator

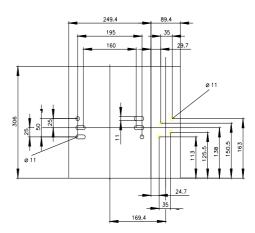
http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







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