



circuit breaker 3VA2 IEC frame 1250 breaking capacity class M Icu=55kA @ 415 V 4-pole, line protection ETU350, LSI, In=1250A overload protection Ir=500A ...1250A short circuit protection Isd=1,5... 10 X Ir, li=10 x In N conductor protection adjustable (OFF, up to 100%) nut keeper kit

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	Line protection
design of the overcurrent release	ETU350
protection function of the overcurrent release	LSI
number of poles	4
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	516 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	172 W
mechanical service life (operating cycles) / typical	10 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	4 600
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	3 200
product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof	No
ground-fault monitoring version	Without
product function	
• communication function	No
• other measurement function	No
Net Weight	26.323 kg
Current	
continuous current / rated value / maximum	1 250 A
Courant permanent assigné Iu	1 250 A
operational current	
• at 40 °C	1 250 A
• at 45 °C	1 250 A
• at 50 °C	1 250 A
• at 55 °C	1 187 A
• at 60 °C	1 125 A
• at 65 °C	1 000 A
• at 70 °C	875 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	M
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	85 kA
• at 415 V	55 kA
• at 440 V	55 kA

<ul style="list-style-type: none"> • at 500 V • at 690 V 	36 kA
operating short-circuit current breaking capacity (Ics)	25 kA
<ul style="list-style-type: none"> • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V 	85 kA
	55 kA
	55 kA
	36 kA
	19 kA
short-circuit current making capacity (Icm)	
<ul style="list-style-type: none"> • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V 	187 kA
	121 kA
	121 kA
	75.6 kA
	52.5 kA

Adjustable parameters

product feature / for L-tripping / can be switched on/off	No
adjustable response value setting current (I _r) / of the L-trip / with I _{2t} characteristic / minimum	500 A
adjustable response value setting current (I _r) / of the L-trip / with I _{2t} characteristic / maximum	1 250 A
adjustable response value delay time (t _r) / for L-tripping / with I _{2t} characteristic / minimum	0.5 s
adjustable response value delay time (t _r) / for L-tripping / with I _{2t} characteristic / maximum	17 s
adjustable response value setting current (I _{sd}) / of S-trip / with I _{2t} characteristic / minimum	1 875 A
adjustable response value setting current (I _{sd}) / of S-trip / with I _{2t} characteristic / maximum	12 500 A
adjustable response value delay time (t _{sd}) / for S-tripping / with I _{2t} characteristic / minimum	0.02 s
adjustable response value delay time (t _{sd}) / for S-tripping / with I _{2t} characteristic / maximum	0.4 s
adjustable response value setting current (I _i) / for I-tripping / minimum	12 500 A
adjustable response value setting current (I _i) / for I-tripping / maximum	12 500 A
adjustable absolute value setting current (I _{nN}) / for N-tripping / minimum	625 A
adjustable absolute value setting current (I _{nN}) / for N-tripping / maximum	1 250 A
adjustable current response value current / of instantaneous short-circuit trip unit / minimum	12 500 A
adjustable current response value current / of instantaneous short-circuit trip unit / maximum	12 500 A
design of the N-conductor protection	adjustable OFF; 50%; 100%
Ground fault protection / tripping switchable / I _{2t} =ON/OFF	No

Mechanical Design

product component	
<ul style="list-style-type: none"> • undervoltage release • voltage trigger • trip indicator 	No
height [in]	12.6 in
height	320 mm
width [in]	11.02 in
width	280 mm
depth [in]	4.72 in
depth	120 mm

Connections

arrangement of electrical connectors / for main current circuit	Front terminal
type of electrical connection / for main current circuit	both sides processed busbar connection piece
design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)	silver
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	silver

Auxiliary circuit

number of CO contacts / for auxiliary contacts 0

Accessories

product extension / optional / motor drive No

Environmental conditions

protection class IP / on the front IP40
ambient temperature
• during operation / minimum -25 °C
• during operation / maximum 70 °C
• during storage / minimum -40 °C
• during storage / maximum 80 °C

Certificates

reference code / according to IEC 81346-2 Q

General Product Approval EMC

[Confirmation](#)



[Miscellaneous](#)



Declaration of Conformity **Test Certificates** **Marine / Shipping**



[Type Test Certificates/Test Report](#)

[Miscellaneous](#)



Marine / Shipping other



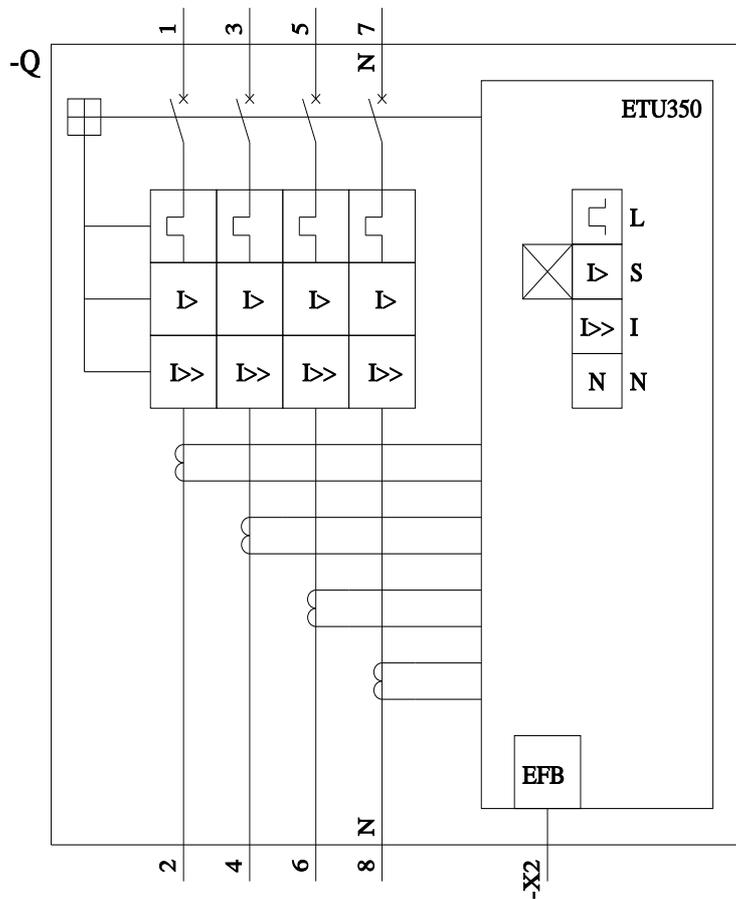
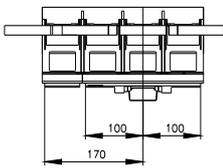
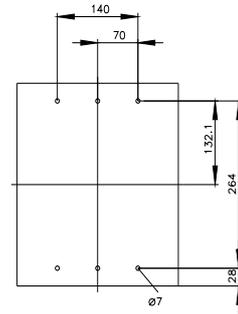
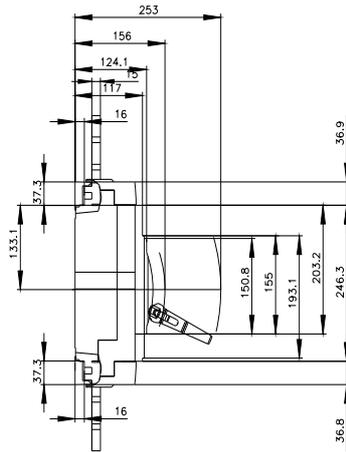
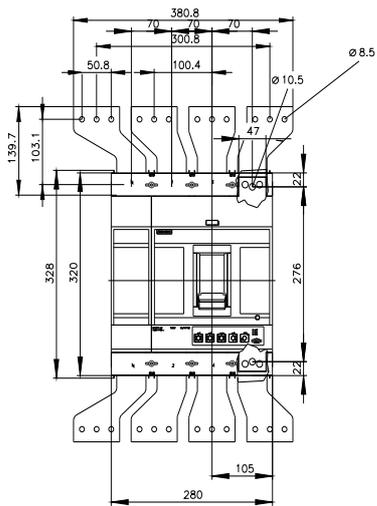
[Environmental Confirmations](#)

[Miscellaneous](#)

[Miscellaneous](#)

Further information

- 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?mfb=3VA2612-5HN42-0AA0>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3VA2612-5HN42-0AA0>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VA2612-5HN42-0AA0
- CAX-Online-Generator
<http://www.siemens.com/cax>
- Tender specifications
<http://www.siemens.com/specifications>



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