



circuit breaker 3VA2 IEC frame 100 breaking capacity class M Icu=55kA @ 415V 4-pole, line protection ETU350, LSI, In=100A overload protection Ir=40A...100A short-circuit protection Isd=1.5...10 x Ir, li=12 x In N conductor protection adjustable (OFF, 50%, 100%) nut keeper kit

Model	
product brand name	SETRON
product designation	Molded case circuit breaker
Product version	Line protection
design of the overcurrent release	ETU350
protection function of the overcurrent release	LSI
number of poles	4
General technical data	
Tension assignée d'isolement Ui	800 V
Max. rated operational voltage Ue with AC 50/60Hz	690 V
power loss [W] / maximum	13.5 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	4.5 W
mechanical service life (switching cycles) / typical	20 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	14 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	8 000
Neutral conductors / upgradeable/retrofitable	No
ground-fault monitoring version	Without
product function	
• communication function	No
• other measurement function	No
net weight	2.93 kg
Current	
Max. rated operational current of the frame size	100 A
Courant permanent assigné Iu	100 A
operational current	
• at 40 °C	100 A
• at 45 °C	100 A
• at 50 °C	100 A
• at 55 °C	100 A
• at 60 °C	100 A
• at 65 °C	100 A
• at 70 °C	100 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	M
breaking capacity maximum short-circuit current (Icu)	

<ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 415 V</li> <li>• at 440 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul>	85 kA
breaking capacity operating short-circuit current (Ics)	
<ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 415 V</li> <li>• at 440 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul>	85 kA
	55 kA
	55 kA
	36 kA
	2 kA
short-circuit current making capacity (Icm)	
<ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 415 V</li> <li>• at 440 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul>	187 kA
	121 kA
	121 kA
	76 kA
	3 kA
<b>Adjustable parameters</b>	
Adjustable response value current / I <sub>g</sub> min.	40 A
Adjustable response value current / I <sub>g</sub> min.	100 A
Adjustable response value current / I <sub>g</sub> min.	0.5
Adjustable response value current / I <sub>g</sub> min.	17
Adjustable response value current / I <sub>g</sub> min.	150 A
Adjustable response value current / I <sub>g</sub> min.	1 000 A
Short-term delayed / tripping switchable / I <sub>2t</sub> =ON/OFF	No
Adjustable response value current / I <sub>g</sub> min.	0.02 s
Adjustable response value current / I <sub>g</sub> min.	0.4 s
Adjustable response value current / I <sub>i</sub> min.	1 200 A
Adjustable response value current / I <sub>i</sub> max.	1 200 A
design of the N-conductor protection	adjustable OFF; 50%; 100%
Ground fault protection / tripping switchable / I <sub>2t</sub> =ON/OFF	No
<b>Mechanical Design</b>	
height [in]	7.1 in
Height	181 mm
width [in]	5.5 in
Width	140 mm
depth [in]	3.4 in
depth	86 mm
<b>Connections</b>	
arrangement of electrical connectors / for main current circuit	Front terminal
type of electrical connection / for main current circuit	on both sides nut keeper kit
Type of connectable conductor cross-section, connection screw, width x thickness , min.	13 x 1 mm
Type of connectable conductor cross-section, connection screw, width x thickness , max.	25 x 8.5 mm
<b>Auxiliary circuit</b>	
number of CO contacts / for auxiliary contacts	0
<b>Accessories</b>	
product extension / optional / motor drive	Yes
<b>Environmental conditions</b>	
protection class IP / on the front	IP40
ambient temperature	
<ul style="list-style-type: none"> <li>• during operation / minimum</li> <li>• during operation / maximum</li> <li>• during storage / minimum</li> <li>• during storage / maximum</li> </ul>	-25 °C
	70 °C
	-40 °C
	80 °C
<b>Certificates</b>	

## General Product Approval


[Miscellaneous](#)


EMC

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Conformity

Test Certificates

Shipping Approval


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[Type Test  
Certificates/Test  
Report](#)
[Special Test  
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Shipping Approval

other

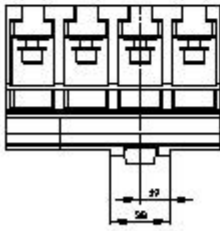
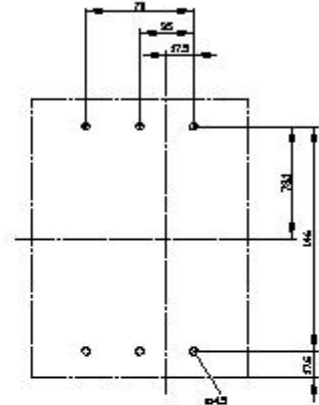
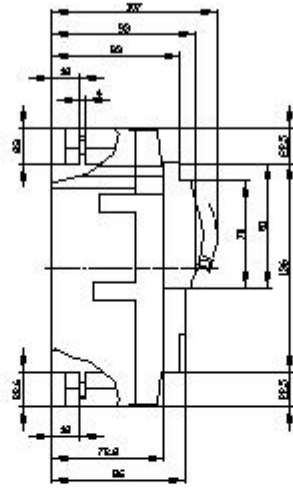
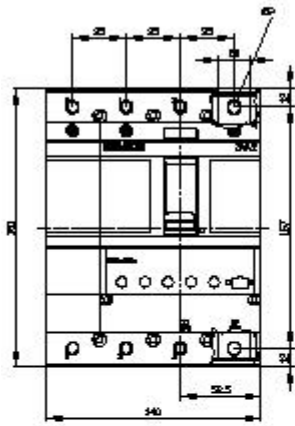

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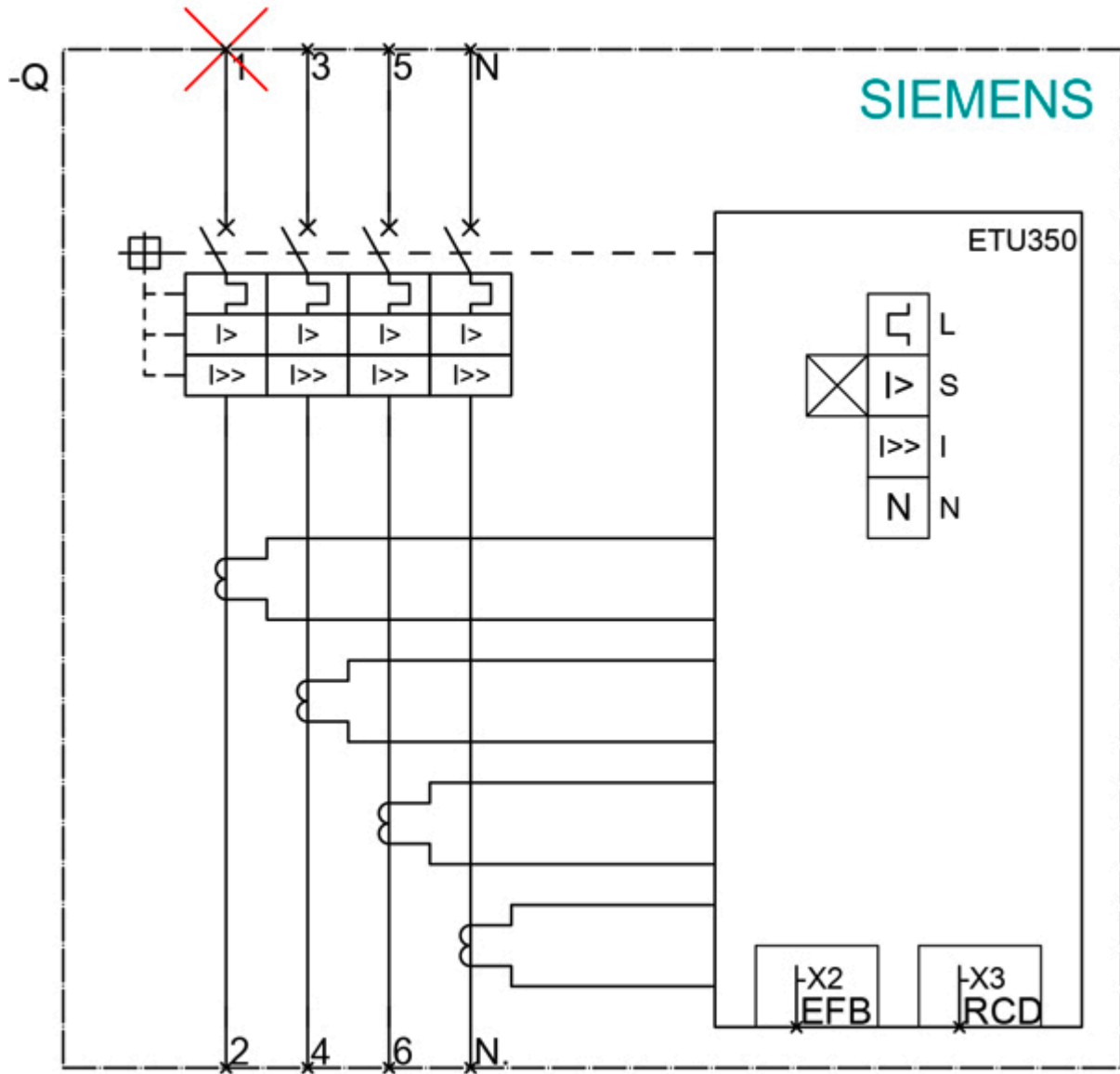
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## Further information

**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?mlfb=3VA2010-5HN42-0AA0>
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
<https://support.industry.siemens.com/cs/ww/en/ps/3VA2010-5HN42-0AA0>
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2010-5HN42-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2010-5HN42-0AA0)
**Tender specifications**
<http://www.siemens.com/specifications>





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