



circuit breaker 3VA2 IEC frame 250 breaking capacity class E Icu=200 kA @ 415 V 3-pole motor protection ETU350M, LSI, In=200A overload protection Ir=64A ... 200A short circuit protection Isd=3...12xIr, li=12xIn busbar connection

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
Product version	Motor protection
design of the overcurrent release	ETU350M
protection function of the overcurrent release	LSI
number of poles	3
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
operating power / at AC-3 / at 400 V	75 000 W
operating power / at AC-3 / at 230 V	37 000 W
power loss [W] / maximum	46 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	15.33 W
mechanical service life (operating cycles) / typical	25 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	12 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	8 400
Electrical endurance (switching cycles) / at AC-3 / at 380/415 V 50/60 Hz	6 000
product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof	No
ground-fault monitoring version	Without
product function	
• communication function	No
• phase failure detection	Yes
• other measurement function	No
Net Weight	2.233 kg
Current	
continuous current / rated value / maximum	250 A
Courant permanent assigné lu	200 A
operational current	
• at 40 °C	200 A
• at 45 °C	200 A
• at 50 °C	200 A
• at 55 °C	200 A
• at 60 °C	200 A
• at 65 °C	200 A
• at 70 °C	200 A
Switching capacity according to IEC 60947	

switching capacity class of the circuit breaker	E
maximum short-circuit current breaking capacity (Icu)	
• at 415 V	200 kA
• at 690 V	85 kA
operating short-circuit current breaking capacity (Ics)	
• at 415 V	200 kA
• at 690 V	65 kA
short-circuit current making capacity (Icm)	
• at 415 V	440 kA
• at 690 V	187 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	80 A
adjustable response value setting current (I _r) / of the L-trip / with I _{2t} characteristic / maximum	200 A
adjustable response value delay time (t _r) / for L-tripping / with I _{2t} characteristic / minimum	4 s
adjustable response value delay time (t _r) / for L-tripping / with I _{2t} characteristic / maximum	15 s
adjustable response value setting current (I _{sd}) / of S-trip / with I _{0t} characteristic / minimum	600 A
adjustable response value setting current (I _{sd}) / of S-trip / with I _{0t} characteristic / maximum	2 400 A
adjustable response value delay time (t _{sd}) / for S-tripping / with I _{0t} characteristic / minimum	0.03 s
adjustable response value delay time (t _{sd}) / for S-tripping / with I _{0t} characteristic / maximum	0.03 s
adjustable response value setting current (I _i) / for I-tripping / minimum	2 400 A
adjustable response value setting current (I _i) / for I-tripping / maximum	2 400 A
adjustable absolute value setting current (I _{nN}) / for N-tripping / minimum	0 A
adjustable absolute value setting current (I _{nN}) / for N-tripping / maximum	0 A
adjustable current response value current / of instantaneous short-circuit trip unit / minimum	600 A
adjustable current response value current / of instantaneous short-circuit trip unit / maximum	2 400 A
Ground fault protection / tripping switchable / I _{2t} =ON/OFF	No
adjustable trip class (T _c CLASS)	10A, 10E, 20E
tripping time (T _p) / with adjustable trip class (T _c CLASS) / minimum	4 s
tripping time (T _p) / with adjustable trip class (T _c CLASS) / maximum	15 s

Mechanical Design

product component	
• undervoltage release	No
• voltage trigger	No
• trip indicator	No
height [in]	7.13 in
Height	181 mm
width [in]	4.13 in
Width	105 mm
depth [in]	3.39 in
depth	86 mm

Connections

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 mm
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)	tin
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Auxiliary circuit

number of CO contacts / for auxiliary contacts	0
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Accessories

product extension / optional / motor drive	Yes
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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
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General Product Approval

EMC



[Confirmation](#)



[Miscellaneous](#)



Declaration of Conformity	Test Certificates	Marine / Shipping
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[Miscellaneous](#)

[Special Test Certificate](#)



Marine / Shipping	other
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[CCS / China Classification Society](#)

[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?mlfb=3VA2220-0MN32-0AA0>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2220-0MN32-0AA0>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2220-0MN32-0AA0

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>

