

Siemens
EcoTech



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



Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	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
power loss [W] / 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 (operating cycles) / at AC-1 / at 380/415 V	12 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	8 400
electrical endurance (operating cycles) / at AC-3 / at 380/415 V	6 000
product feature / for neutral conductors / upgradable/retrofittable / 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	
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	F

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 (Ir) / of the L-trip / with I2t characteristic	
• minimum	80 A
• maximum	200 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	4 s
• maximum	15 s
adjustable response value setting current (Isd) / of S-trip / with I0t characteristic	
• minimum	600 A
• maximum	2 400 A
adjustable response value delay time (tsd) / for S-tripping / with I0t characteristic	
• minimum	0.03 s
• maximum	0.03 s
adjustable response value setting current (Ii) / for I-tripping	
• minimum	2 400 A
• maximum	2 400 A
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
• maximum	0 A
product function / grounding protection	No
adjustable trip class (Tc CLASS)	10A, 10E, 20E
tripping time (Tp) / with adjustable trip class (Tc CLASS)	
• minimum	4 s
• 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-sections / for flat-bar terminal connection / minimum	13 x 1 mm
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	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
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
Accessories	

product extension / optional / motor drive		Yes	
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	
Environmental footprint			
Environmental Product Declaration (EPD)		Yes	
global warming potential [CO2 eq] / total		251 kg	
global warming potential [CO2 eq] / during manufacturing		20.4 kg	
global warming potential [CO2 eq] / during operation		235 kg	
global warming potential [CO2 eq] / after end of life		-3.75 kg	
Siemens Eco Profile (SEP)		Siemens EcoTech	
reference code / according to IEC 81346-2		Q	
Approvals / Certificates			
General Product Approval			
 CCC  EG-Konf.  Confirmation  VDE Miscellaneous			
General Product Approval	EMV	Test Certificates	Marine / Shipping
  RCM Miscellaneous Special Test Certificate  BUREAU VERITAS  DNV			
Marine / Shipping	other	Dangerous goods	Environment
CCS (China Classification Society)	Confirmation	Miscellaneous	Miscellaneous
		Transport Information	
Environment			
 Environmental Confirmations Environmental Confirmations			
Further information			
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 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			



