

Siemens
EcoTech



circuit breaker 3VA2 IEC Frame 160 breaking capacity class C Icu=110 kA @ 415 V 3-pole, motor protection ETU350M, LSI, In=40 A overload protection Ir=16 A...40 A short-circuit protection Isd=3...15 x Ir, li=15 x In 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	18 500 W
operating power / at AC-3 / at 230 V	11 000 W
power loss [W] / maximum	1.6 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	0.53 W
mechanical service life (operating cycles) / typical	25 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	14 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	9 800
electrical endurance (operating cycles) / at AC-3 / at 380/415 V	10 000
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	2.17 kg
Current	
operational current	
• at 40 °C	40 A
• at 45 °C	40 A
• at 50 °C	40 A
• at 55 °C	40 A
• at 60 °C	40 A
• at 65 °C	40 A
• at 70 °C	40 A

Switching capacity according to IEC 60947

switching capacity class of the circuit breaker	C
maximum short-circuit current breaking capacity (I_{cu})	
• at 240 V	150 kA
• at 415 V	110 kA
• at 440 V	110 kA
• at 500 V	85 kA
• at 690 V	3 kA
operating short-circuit current breaking capacity (I_{cs})	
• at 240 V	150 kA
• at 415 V	110 kA
• at 440 V	110 kA
• at 500 V	85 kA
• at 690 V	2.5 kA
short-circuit current making capacity (I_{cm})	
• at 240 V	330 kA
• at 415 V	242 kA
• at 440 V	242 kA
• at 500 V	187 kA
• at 690 V	3.7 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	16 A
• maximum	40 A
adjustable response value delay time (t_r) / for L-tripping / with I_{2t} characteristic	
• minimum	4 s
• maximum	17 s
adjustable response value setting current (I_{sd}) / of S-trip / with I_{0t} characteristic	
• minimum	48 A
• maximum	600 A
adjustable response value delay time (t_{sd}) / for S-tripping / with I_{0t} characteristic	
• minimum	0.03 s
• maximum	0.03 s
adjustable response value setting current (I_i) / for I-tripping	
• minimum	600 A
• maximum	600 A
adjustable setting current (I_{nN}) / for N-tripping	
• minimum	0 A
• maximum	0 A
product function / grounding protection	No
adjustable trip class (T_c CLASS)	10A, 10E, 20E
tripping time (T_p) / with adjustable trip class (T_c CLASS)	
• minimum	4 s
• maximum	17 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)	tin				
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					
global warming potential [CO2 eq] / total	61.814 kg				
global warming potential [CO2 eq] / during manufacturing	14.6 kg				
global warming potential [CO2 eq] / during operation	48.9 kg				
global warming potential [CO2 eq] / after end of life	-2.2 kg				
Siemens Eco Profile (SEP)	Siemens EcoTech				
reference code / according to IEC 81346-2	Q				
Approvals / Certificates					
General Product Approval					
		Confirmation		Miscellaneous	
General Product Approval	EMV	Test Certificates		Maritime application	
		Type Test Certificates/Test Report	Special Test Certificate	Miscellaneous	
Maritime application	other	Dangerous goods	Environment		
	CCS (China Classification Society)	Confirmation	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 for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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

<https://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2140-7MN32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2140-7MN32-0AA0>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2140-7MN32-0AA0

CAX-Online-Generator

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

Tender specifications

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



