

Siemens
EcoTech



circuit breaker 3VA2 IEC Frame 160 breaking capacity class H Icu=85 kA @ 415 V
3-pole, line protection ETU850, LSI, In=40 A overload protection Ir=16 A...40 A
short-circuit protection Isd=0.6..10x In, li=1.5..12x In neutral conductor protection
optionally with external current transformer, up to 160% 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	ETU850
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
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
product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof	Yes
ground-fault monitoring version	Without
product function	
• communication function	Yes
• other measurement function	Yes
Net Weight	2.228 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	H
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	110 kA

• at 415 V • at 440 V • at 500 V • at 690 V	85 kA 85 kA 55 kA 3 kA
operating short-circuit current breaking capacity (Ics) • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V	110 kA 85 kA 85 kA 55 kA 2.5 kA
short-circuit current making capacity (Icm) • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V	242 kA 187 kA 187 kA 121 kA 3.7 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 • maximum	16 A 40 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic • minimum • maximum	0.5 s 25 s
adjustable response value setting current (Isd) / of S-trip / with I0t characteristic • minimum • maximum	24 A 400 A
adjustable response value setting current (Isd) / of S-trip / with I2t characteristic • minimum • maximum	24 A 400 A
adjustable response value delay time (tsd) / for S-tripping / with I0t characteristic • minimum • maximum	0.05 s 0.5 s
adjustable response value delay time (tsd) / for S-tripping / with I2t characteristic • minimum • maximum	0.05 s 0.5 s
adjustable response value setting current (Ii) / for I-tripping • minimum • maximum	60 A 480 A
adjustable setting current (InN) / for N-tripping • minimum • maximum	16 A 64 A
design of the N-conductor protection	adjustable OFF; 40% to 160%
product function / grounding protection	No
Mechanical Design	
product component • undervoltage release • voltage trigger • trip indicator	No No 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							
 CCC  EG-Konf. Confirmation  VDE Miscellaneous 							
General Product Approval	EMV	Test Certificates		Maritime application			
	 RCM	Special Test Certificate	Type Test Certificates/Test Report	Miscellaneous	 ABS		
Maritime application					other		
 BUREAU VERITAS	 DNV	 LRS	 RMRS	CCS (China Classification Society)	 产品合格 QC PASS		
other		Dangerous goods		Environment			
Confirmation	Miscellaneous	Transport Information		 EPD	 Siemens EcoTech		Environmental Confirmations
Environment							

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=3VA2140-6KP32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2140-6KP32-0AA0>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2140-6KP32-0AA0

CAX-Online-Generator

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

Tender specifications

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



