

CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY
CLASS M ICU=55KA @ 415 V 3-POLE, MOTOR PROTECTION
ETU350M, LSI, IN=40A OVERLOAD PROTECTION IR=16A ...40A
SHORT CIRCUIT PROTECTION ISD=3... 15 X IR, II=15 X IN
BUSBAR CONNECTION 2 AUXILIARY SWITCH HQ

Model	
product brandname	SENTRON
Product designation	Molded case circuit breaker
Design of the product	Motor protection
Design of the overcurrent release	ETU350M
Protective function of the overcurrent release	LSI
Number of poles	3
Design of the auxiliary release	Undervoltage release (UVR)
Design of the auxiliary switch	2 auxiliary switches HQ

General technical data	
Tension assignée d'isolement Ui	800 V
Max. rated operational voltage Ue with AC 50/60Hz	690 V
Operating power / at AC-3 / at 400 V	15 W
Active power loss / for rated value of the current / at AC / in hot operating state / per device	75 W
Mechanical service life (switching cycles) / typical	20 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	12 000
Neutral conductors / upgradeable/retrofitable	No
Ground fault monitoring version	Without
Product function	
• communication function	No
• Phase failure detection	Yes
• other measurement function	No
Net weight	2.284 kg

Electricity	
Max. rated operational voltage of the size of the circuit-breaker	160 A
Courant permanent assigné lu	40 A
Operating current	
• at 40 °C	40 A
• at 45 °C	40 A
• at 50 °C	40 A

• at 55 °C	38.4 A
• at 60 °C	37.6 A
• at 65 °C	36.8 A
• at 70 °C	36 A

Switching capacity according to IEC 60947

Switching capacity class of the circuit breaker	M
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V	85 kA
• at 415 V	55 kA
• at 440 V	55 kA
• at 500 V	36 kA
• at 690 V	10 kA
Operational short-circuit current breaking capacity (Ics)	
• at 240 V	85 kA
• at 415 V	55 kA
• at 440 V	55 kA
• at 500 V	36 kA
• at 690 V	10 kA
Short-circuit current making capacity (Icm)	
• at 240 V	187 kA
• at 415 V	121 kA
• at 440 V	121 kA
• at 500 V	75.6 kA
• at 690 V	17 kA

Adjustable parameters

Adjustable response value current / I _g min.	16 A
Adjustable response value current / I _g min.	40 A
Adjustable response value current / I _g min.	4
Adjustable response value current / I _g min.	17
Adjustable response value current / I _g min.	120 A
Adjustable response value current / I _g min.	600 A
Short-term delayed / tripping switchable / I _{2t} =ON/OFF	No
Adjustable response value current / I _g min.	0.03 s
Adjustable response value current / I _g min.	0.03 s
Adjustable response value current / I _i min.	600 A
Adjustable response value current / I _i max.	600 A

Mechanical Design

Height	181 mm
Width	105 mm

Depth	86 mm		
Connections			
Arrangement of electrical connectors / for main current circuit	Front terminal		
Type of electrical connection / for main current circuit	Lug terminal		
Auxiliary circuit			
Product component			
• undervoltage release	Yes		
• Voltage trigger	No		
• undervoltage release with leading contact	No		
• Trip indicator	No		
Number of CO contacts / for auxiliary contacts	2		
Accessories			
Product extension / optional / motor drive	Yes		
Manufacturer's article number			
• of the supplied basic switch	3VA2140-5MN32-0AA0		
• of the integrated auxiliary switch/alarm switch	3VA9988-0AA12		
• of the integrated auxiliary trip	3VA9608-0BB25		
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			
Equipment marking / acc. to DIN EN 81346-2	Q		
General Product Approval	EMC	Declaration of Conformity	Test Certificates
 CCC	 VDE	 EAC	 RCM
		 EG-Konf.	sonstig
other			
Bestätigungen		sonstig	

Further information

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

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

Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA2140-5MN32-0DC0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2140-5MN32-0DC0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2140-5MN32-0DC0

CAX-Online-Generator

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

Tender specifications

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

last modified:

10/29/2016