SIEMENS

Data sheet

3VA6140-5HN41-2AA0



Circuit breaker 3VA6 UL Frame 150 breaking capacity class M 35kA @ 480V 4-pole, Line protection ETU350, LSI, In=40A overload protection, 100% rated Ir=16A...40A Short-circuit protection Isd=1.5...10 x Ir, Ii=12 x In N conductor protection adjustable (OFF, 100%) without connection

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	MDAE
design of the product	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the overcurrent release	ETU350
protection function of the overcurrent release	LSI
number of poles	4
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	2.4 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	0.8 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 480 V	14 000
electrical endurance (operating cycles) / at 600 V	9 800
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
ground-fault monitoring version	without
product function	
 communication function 	No
 other measurement function 	No
Net Weight	2.9 kg
Current	
marking / according to UL 489 / 100%-rated breaker	Yes
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	Μ
maximum short-circuit current breaking capacity (Icu)	

•• 20 VSb A•• 14 15 V55 A•• 24 0 V121 A•• 24 0 V121 A•• 24 0 V121 A•• 24 0 V13 A•• 24 0 V15 A•• 25 0 A15 A•• 26 0 A16 A<		
• • • • • • • • • • • • • • • • • • •	• at 240 V	85 kA
operating - both - social current breaking capacity (Ics) 8 • all 240 V 85 NA • all 240 V 25 NA • all 240 V 25 NA • all 240 V 25 NA • all 240 V 10 NA • all 240 V 17 NA • all 240 V 17 NA • all 240 V 12 NA • all 451 V 12 NA • all 490 V 10 NA • all 260 V 10 NA • all 261 Nation name 17 a aligl 261 Nation nam 10 A <td>• at 415 V</td> <td>55 kA</td>	• at 415 V	55 kA
• ±240 V55 kA• ±1240 V2.5 kA• • ±1240 V187 KA• ±1240 V187 KA• ±1240 V187 KA• ±1240 V3.8 kASator Foruz oursent making capacity seconding to UL 489Unimation gapacity seconding to UL 489Sator Foruz oursent breaking capacitySator Foruz oursent breaking capacity• ±1240 V3.8 kASator Foruz oursent breaking capacity• ±1240 V100 kA• ±1240 V100 kA• ±1240 V18 KA• ±1240 V18 KA• ±1240 V18 KA• ±1240 V18 KA• ±1240 V100 kA• ±1240 V18 KA±1240 KA18 KA <trr><td< td=""><td>• at 690 V</td><td>2.5 kA</td></td<></trr>	• at 690 V	2.5 kA
••• # 45 5 V55 kA••• # 26 5 V25 kAshot-circu Current making capacity (icm)17 kA••• # 26 1 V18 t kA••• # 46 1 V28 kAShot-circu Current traking capacity (icm)18 kA••• # 26 0 V35 kA••• # 26 0 V35 kAAdjustable response value setting current (in / of the L-trip / with 12 characteristic18 kAAdjustable response value delay time (if / for L-tripping / with 12 characteristic15 A••• # 100 kA35 kA••• # 200 V35 kA••• # 200 V5 A••• # 200 V5 A•• # 200 V5 A•• # 200 V7 A# 200 kalle response value delay time (if / for L-tripping / with 12 characteristic•• # 200 kalle response value setting current (ikd) / of S-trip / with 12 characteristic•• # 200 kalle response value setting current (ikd) / of S-trip / with 12 characteristic•• # 200 kalle response value setting current (ikd) / of S-trip / with 12 characteristic•• # 200 kalle response value setting current (ikd) / of S-trip / with 12 characteristic•• # 200 kalle response value setting current (ikd) / of S-trip / with 12 characteristic•• # 200 kalle response value setting current (ikd) / of S-trip / with 12 characteristic•• # 200 kalle response value setting current (ikd) / of S-trip / with 12 characteristic•• # advinting•• # advinting	operating short-circuit current breaking capacity (lcs)	
•••••••••••••••••••••••••••••••••••	• at 240 V	85 kA
shet-cout current making capacity (lon) • at 240 Y • at 260 W 2 at 84 Current braking capacity • at 240 Y •	● at 415 V	55 kA
a 220 V167 kAa 216 V32 kASutching capacity according to UL 489current treaking capacitya 20 V100 kAa 210 V100 kAa 120 V100 kAa 120 V100 kAa 120 V100 kAa 140 V55 kAa 160 V18 kAAdjustable parameterscurrent treaking capacity5a name15 Aa name15 Aa name0.5 sa name0.5 sa name0.5 sa name0.5 sa name0.5 sa name0.0 Aa name0.0 A <trr>a name0.0 Aa n</trr>	• at 690 V	2.5 kA
414 S V121 kA 38 kASint A 38 kASint A Sint ASint A Sint ASint A Sint ASint A Sint ASint A Sint AA Sint A Sint AA Sint A Sint A Si	short-circuit current making capacity (Icm)	
state3.8 kASwitching capacity ca	• at 240 V	187 kA
Sutiching capacity according to UL 499 ION KA current threaking capacity ION KA • alt 20 V 35 KA • alt 20 V 35 KA • alt 20 V 18 KA Adjustable parameters IS A adjustable response value setting current (I/) / of the Litrip / with I22 IS A inimum 40 A polysibile response value setting current (I/) / of Litrip / with I22 IS A • inimum 05 s • inaimum 05 s • inaimum 00 A • inaimum 60 A <td< td=""><td>• at 415 V</td><td>121 kA</td></td<>	• at 415 V	121 kA
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1240 v100 kÅ• at 240 v35 kÅ• at 260 v35 kÅAdjustable rosponse value setting current (Ir) of the L-tir / value15 Å• minimum15 Å• minimum15 Å• minimum15 Å• minimum0.0 Å• minimum0.5 %• minimum0.0 Å• minimum0.00 Å• minimum0.00 Å• minimum0.000 1 %• minimum400 Å• minimum0.000 1 %• minimum0.000 1 % <trr><td< td=""><td>Switching capacity according to UL 489</td><td></td></td<></trr>	Switching capacity according to UL 489	
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depth 86 mm		
		3.39 in
Connections	· · · ·	86 mm
	Connections	

arrangement of electrical connectors / for main cu	urrent circuit With	out connection		
type of electrical connection / for main current circ	cuit Witho	out		
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 °	С		
 during operation / maximum 	70 °C	;		
 during storage / minimum 	-40 °	C		
 during storage / maximum 	80 °C	;		
Certificates				
reference code / according to IEC 81346-2	Q			
certificate of suitability / as approval for NAVAL (r vessels) / supplement SB	no combat Yes			
General Product Approval				
Confirmation Cccc			<u>Miscellaneous</u>	EAC
EMC Declaration of Confor	mity	Marine / Shipping		other
RCM CE	UK CA	ABS		<u>Miscellaneous</u>
other	Dangerous Good			
Confirmation Miscellaneous	Transport Information			

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3VA6140-5HN41-2AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6140-5HN41-2AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6140-5HN41-2AA0

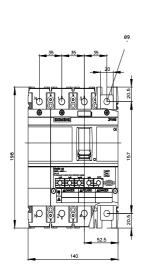
CAx-Online-Generator

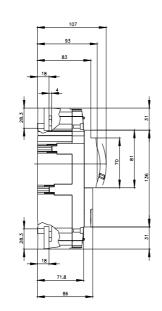
http://www.siemens.com/cax

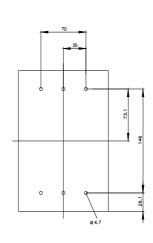
Tender specifications

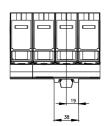
http://www.siemens.com/specifications

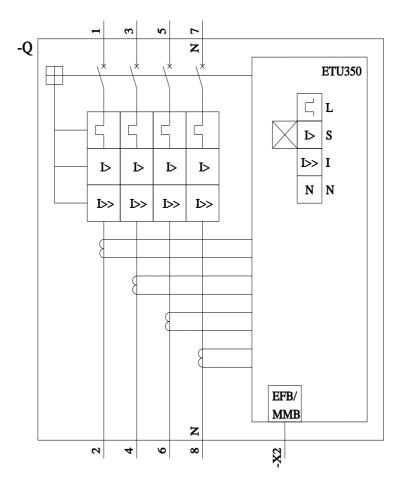
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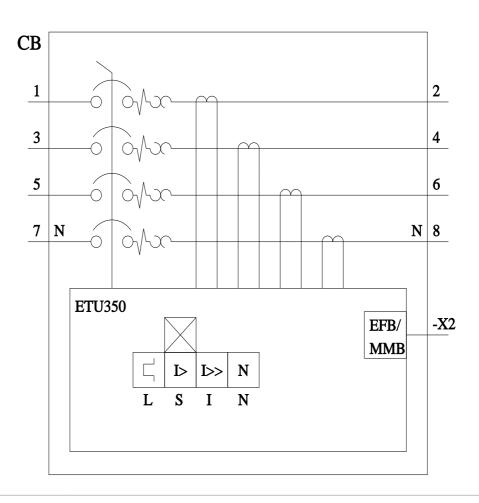












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