3VA2340-4HM42-0AA0

Data sheet





circuit breaker 3VA2 IEC Frame 400 breaking capacity class S Icu=36 kA @ 415 V 4-pole, line protection ETU330, LIG, In=400 A overload protection Ir=160 A ...400 A short-circuit protection Ii=1.5...10 x In neutral conductor protection adjustable (OFF, 50%, 100%) ground-fault protection Ig=0.2...1 x In= tg=0.1/0.3s 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	ETU330	
protection function of the overcurrent release	LIG	
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	96 W	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	32 W	
mechanical service life (operating cycles) / typical	20 000	
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	6 000	
electrical endurance (operating cycles) / at AC-1 / at 690 V	4 200	
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No	
ground-fault monitoring version	Summation current formation L + N conductor	
product function		
 communication function 	No	
other measurement function	No	
Net Weight	5.989 kg	
Current		
operational current		
• at 40 °C	400 A	
• at 45 °C	400 A	
• at 50 °C	400 A	
• at 55 °C	385 A	
• at 60 °C	370 A	
• at 65 °C	355 A	
• at 70 °C	340 A	
Switching capacity according to IEC 60947		
switching capacity class of the circuit breaker	S	
maximum short-circuit current breaking capacity (lcu)		
• at 240 V	55 kA	
• at 415 V	36 kA	
• at 440 V	36 kA	

● at 500 V	25 kA
• at 690 V	5 kA
operating short-circuit current breaking capacity (Ics)	
● at 240 V	55 kA
● at 415 V	36 kA
● at 440 V	36 kA
• at 500 V	25 kA
• at 690 V	5 kA
	JM
short-circuit current making capacity (Icm)	40414
• at 240 V	121 kA
• at 415 V	75.6 kA
• at 440 V	75.6 kA
● at 500 V	52.5 kA
● at 690 V	7.5 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	160 A
• maximum	400 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	0.5 s
• maximum	17 s
adjustable response value setting current (li) / for I-tripping	
• minimum	600 A
maximum	4 000 A
adjustable current response value current / for G-tripping / with standard characteristic	
• initial value	80 A
full-scale value	400 A
adjustable response value delay time (tg) / for G-tripping / with l0t characteristic	
• maximum	0.3 s
adjustable setting current (InN) / for N-tripping	
• minimum	200 A
maximum	400 A
design of the N-conductor protection	adjustable OFF; 50%; 100%
product function / grounding protection	Yes
	Tes
Mechanical Design	
product component	
undervoltage release	No
voltage trigger	No
trip indicator	No
height [in]	9.76 in
height	248 mm
width [in]	7.24 in
width	184 mm
depth [in]	4.33 in
depth	110 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 electrical conflection / for main current circuit type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	20 x 1 mm
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	35 x 10 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)	silver
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
DUMBEL OF COURSES / IDC SUMINARY COLUMNS	

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		
Siemens Eco Profile (SEP)	Siemens EcoTech	
reference code / according to IEC 81346-2	Q	
Approvals / Certificates		

General Product Approval

Confirmation







Miscellaneous



EMV Marine / Shipping **Test Certificates**



Miscellaneous

Special Test Certific-<u>ate</u>

CCS (China Classification Society)

Miscellaneous

Confirmation

Dangerous goods Environment other

Miscellaneous Transport Information



Siemens **EcoTech**



Environmental Confirmations

Environmental Confirmations

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)

om/mall/en/en/Catalog/product?mlfb=3VA2340-4HM42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA2340-4HM42-0AA0

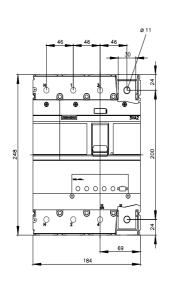
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

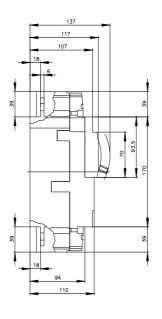
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2340-4HM42-0AA0

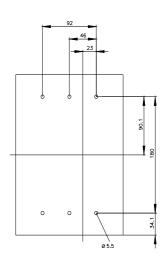
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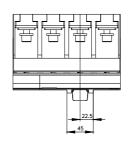
Tender specifications

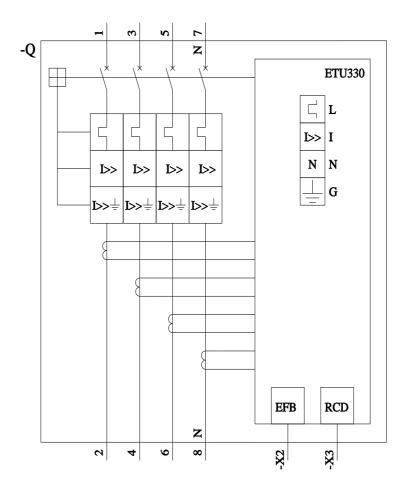
http://www.siemens.com/specifications











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