

Siemens
EcoTech



circuit breaker 3VA2 IEC Frame 400 breaking capacity class E Icu=200 kA @ 415 V 3-pole, motor protection ETU350M, LSI, In=250 A overload protection Ir=100 A ... 250 A short-circuit protection Isd=3...15xIr, li=15xIn 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	110 000 W
operating power / at AC-3 / at 230 V	55 000 W
power loss [W] / maximum	37.5 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	12.5 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
electrical endurance (operating cycles) / at AC-3 / at 380/415 V	4 000
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	5.077 kg
Current	
operational current	
• at 40 °C	250 A
• at 45 °C	250 A
• at 50 °C	250 A
• at 55 °C	250 A
• at 60 °C	250 A
• at 65 °C	250 A
• at 70 °C	250 A

Switching capacity according to IEC 60947

switching capacity class of the circuit breaker	E
maximum short-circuit current breaking capacity (I _{cu}) • at 415 V • at 690 V	200 kA 85 kA
operating short-circuit current breaking capacity (I _{cs}) • at 415 V • at 690 V	200 kA 65 kA
short-circuit current making capacity (I _{cm}) • at 415 V • at 690 V	440 kA 187 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 • maximum	100 A 250 A
adjustable response value delay time (t _r) / for L-tripping / with I _{2t} characteristic • minimum • maximum	4 s 17 s
adjustable response value setting current (I _{sd}) / of S-trip / with I _{0t} characteristic • minimum • maximum	300 A 3 750 A
adjustable response value delay time (t _{sd}) / for S-tripping / with I _{0t} characteristic • minimum • maximum	0.03 s 0.03 s
adjustable response value setting current (I _i) / for I-tripping • minimum • maximum	3 750 A 3 750 A
adjustable setting current (I _{nN}) / for N-tripping • minimum • maximum	0 A 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 • maximum	4 s 17 s

Mechanical Design

product component • undervoltage release • voltage trigger • trip indicator	No No No
height [in]	9.76 in
height	248 mm
width [in]	5.43 in
width	138 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 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	silver

switch (N, 2, 4, 6)	
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	495 kg
global warming potential [CO2 eq] / during manufacturing	28.7 kg
global warming potential [CO2 eq] / during operation	470 kg
global warming potential [CO2 eq] / after end of life	-4.07 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
reference code / according to IEC 81346-2	Q
Approvals / Certificates	
General Product Approval	



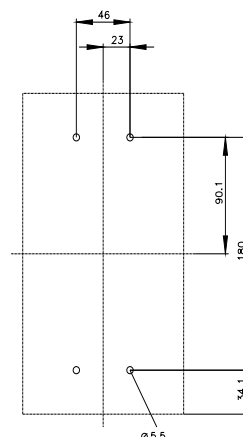
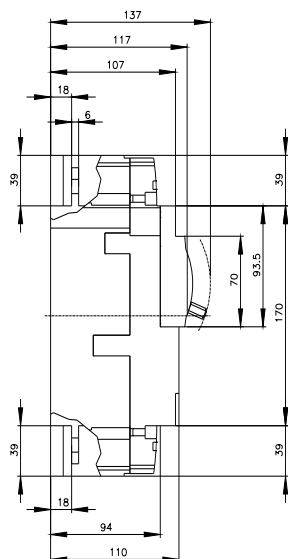
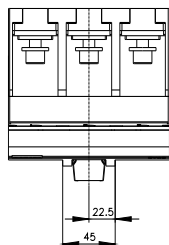
[Miscellaneous](#)



EMV	Test Certificates	Maritime application	other		
 RCM	Special Test Certificate	Miscellaneous	CCS (China Classification Society)	Confirmation	Miscellaneous

Dangerous goods	Environment
Transport Information	  Environmental Confirmations Environmental Confirmations

Further information Information on the packaging Information for data generation and storage Information- and Downloadcenter (Catalogs, Brochures,...) Industry Mall (Online ordering system) Service&Support (Manuals, Certificates, Characteristics, FAQs,...) Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) CAx-Online-Generator Tender specifications
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