



CIRCUIT BREAKER 3VA6 UL FRAME 150 BREAKING CAPACITY CLASS M 35KA @ 480 V 3-POLE, LINE PROTECTION ETU860, LSIG, IN=150A OVERLOAD PROTECTION IR=60A ...150A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..10X IN NEUTRAL PROTECTION OPTIONAL WITH EXT. CT,UPTO 160% GROUND-FAULT-PROTECTION IG=0,2... 1 X IN, TG=0,05-0,8S W/O CONNECTION

Model	
product brandname	SENTRON
Type of load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
Number of poles	3
General technical data	
Tension assignée d'isolement Ui	600 V
Max. rated operational voltage Ue with AC 50/60Hz	600 V
Active power loss / for rated value of the current / at AC / in hot operating state / per device	29 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	9.67 W
Mechanical service life (switching cycles) / typical	20 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	9 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	5 000
Electrical lifetime (switching cycles) / at 480 V / at 50/60 Hz	9 000

Electrical lifetime (switching cycles) / at 600 V / at 50/60 Hz	9 000
Neutral conductors / upgradeable/retrofitable	Yes
Product function	
• communication function	Yes
• other measurement function	Yes

### Electricity

Marking / according to UL 489 / 100%-rated breaker	Yes
Max. rated operational voltage of the size of the circuit-breaker	150 A
Courant permanent assigné lu	150 A
Operating current	
• at 40 °C	150 A
• at 45 °C	150 A
• at 50 °C	150 A
• at 55 °C	150 A
• at 60 °C	142.5 A
• at 65 °C	150 A
• at 70 °C	150 A

### Switching capacity according to IEC 60947

Maximum short-circuit current breaking capacity (Icu)	
• at 240 V	85 kA
• at 415 V	55 kA
• at 690 V	2.5 kA
Operational short-circuit current breaking capacity (Ics)	
• at 240 V	85 kA
• at 415 V	55 kA
• at 690 V	2.5 kA
Short-circuit current making capacity (Icm)	
• at 240 V	187 kA
• at 415 V	121 kA
• at 690 V	3.8 kA

### Switching capacity according to UL 489

Breaking capacity current	
• at 240 V	100 kA
• at 480 Y/277 V	35 kA
• at 480 V	35 kA
• at 600 Y/347 V	18 kA
• at 600 V	18 kA

### Adjustable parameters

Adjustable response value current / I <sub>g</sub> min.	60 A
Adjustable response value current / I <sub>g</sub> min.	150 A
Adjustable response value current / I <sub>g</sub> min.	90 A
Adjustable response value current / I <sub>g</sub> min.	1 500 A
Adjustable response value current / I <sub>g</sub> min.	0.05 s
Adjustable response value current / I <sub>g</sub> min.	0.5 s
Adjustable response value current / I <sub>g</sub> min.	0.05 s
Adjustable response value current / I <sub>g</sub> min.	0.5 s
Adjustable response value current / I <sub>i</sub> min.	225 A
Adjustable response value current / I <sub>i</sub> max.	1 500 A
Ground fault protection can be switched ON/OFF	Yes
Ground fault protection / tripping switchable / I <sub>2t</sub> =ON/OFF	Yes
Adjustable response value current / I <sub>g</sub> min.	30 A
Adjustable response value current / I <sub>g</sub> max.	150 A
Adjustable response value current / t <sub>g</sub> min.	0.05 s
Adjustable response value current / I <sub>g</sub> min.	0.8 s

### Mechanical Design

Height [in]	7.8 in
Height	198 mm
Width [in]	4.1 in
Width	105 mm
Depth [in]	3.4 in
Depth	86 mm

### Auxiliary circuit

Number of CO contacts / for auxiliary contacts	0
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### Accessories

Product extension / optional / motor drive	Yes
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### 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
Certificate of suitability / as approval for NAVAL (no combat vessels) / Supplement SB	No



**last modified:**

10/24/2016