



circuit breaker 3VA5 UL Frame 400 breaking capacity class C 100 kA @ 480 V 3-pole, line protection TM230, FTAM, $I_n=225$ A overload protection $I_r=225$ A permanently set short-circuit protection $I_i=5...10 \times I_n$ UL 489 SB (naval), 50 °C, without connection

Model	
product brand name	SETRON
product designation	Molded-case circuit breaker
product designation / according to UL file	CJAM
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 load switch / according to UL 489 / High-Intensity-Discharge circuit breaker (HID Type)	No
design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type)	No
design of the overcurrent release	TM230
protection function of the overcurrent release	LI
number of poles	3
General technical data	
power loss [W] / maximum	48 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	15.83 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	3 000
electrical endurance (operating cycles) / at 480 V	6 000
electrical endurance (operating cycles) / at 600 V	3 000
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
product function	
• communication function	No
• other measurement function	No
Net Weight	5.2 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	225 A
• at 45 °C	220 A
• at 50 °C	216 A
• at 55 °C	211 A
• at 60 °C	206 A
• at 65 °C	201 A
• at 70 °C	197 A
Switching capacity according to IEC 60947	

switching capacity class of the circuit breaker	C
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case circuit breaker device manual; link to be found under Service & Support in the last chapter
Switching capacity according to UL 489	
current breaking capacity - at 240 V - at 480 V - at 600 V	200 kA 100 kA 35 kA
Adjustable parameters	
adjustable response value setting current (I _r) / of the L-trip / with I2t characteristic - minimum - maximum	225 A 225 A
adjustable response value delay time (t _r) / for L-tripping / with I2t characteristic - minimum - maximum	1 s 1 s
adjustable response value setting current (I _i) / for I-tripping - minimum - maximum	1 125 A 2 250 A
adjustable setting current (I _N) / for N-tripping - minimum - maximum	0 A 0 A
product function / grounding protection	No
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	Without connection
type of electrical connection / for main current circuit	Without
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 - during operation / maximum - during storage / minimum - during storage / maximum	-25 °C 70 °C -40 °C 80 °C
reference code / according to IEC 81346-2	Q
Approvals / Certificates	
General Product Approval	



[Miscellaneous](#)



