



CIRCUIT BREAKER 3VA5 UL Frame 400 BREAKING CAPACITY CLASS M 35kA @ 480 V 3POLE, LINE PROTECTION TM230, FTAM, $I_n=225A$ WITHOUT OVERLOAD PROTECTION IR=225A FIXED SHORT CIRCUIT PROTECTION $I_i=5...10 \times I_n$ UL489 SB (NAVAL), 50 DEG CEL. W/O CONNECTION

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	MJAM
Product version	System protection
design of the load switch / acc. to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the overcurrent release	TM230
protection function of the overcurrent release	LI
number of poles	3
General technical data	
power loss [W] / maximum	47.5 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	15.83 W
mechanical service life (switching cycles) / typical	15 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	6 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	6 000
electrical endurance (switching cycles) / at 480 V	3 000
electrical endurance (switching cycles) / at 600 V	2 700
Neutral conductors / upgradeable/retrofitable	No
ground-fault monitoring version	Without
product function	
• communication function	No
• other measurement function	No
Current	
marking / acc. to UL 489 / 100%-rated breaker	No
Max. rated operational current of the frame size	400 A
Courant permanent assigné I_u	225 A
operational current	
• at 45 °C	221 A
• at 50 °C	217 A
• at 55 °C	214 A
• at 60 °C	210 A
• at 65 °C	206 A
• at 70 °C	202 A
Switching capacity according to IEC 60947	

switching capacity class of the circuit breaker	M
Switching capacity according to UL 489	
breaking capacity current	
• at 240 V	85 kA
• at 480 V	35 kA
• at 600 V	18 kA
Adjustable parameters	
Adjustable response value current / I _g min.	225 A
Adjustable response value current / I _g min.	225 A
Adjustable response value current / I _i min.	1 125 A
Adjustable response value current / I _i max.	2 250 A
Ground fault protection / tripping switchable / I _{2t} =ON/OFF	No
Mechanical Design	
height [in]	9.8 in
Height	248 mm
width [in]	5.4 in
Width	138 mm
depth [in]	4.3 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	-25 °C
• during operation / maximum	70 °C
• during storage / minimum	-40 °C
• during storage / maximum	80 °C
Certificates	
reference code / acc. to IEC 81346-2	Q
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Yes
General Product Approval	EMC



Miscellaneous



Declaration of Conformity

other



Miscellaneous

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

