



circuit breaker 3VA6 UL frame 400 breaking capacity class M 35kA @ 480V 3-pole, line protection ETU320, LI, In=250A overload protection Ir=100A...250A short-circuit protection Ii=1.5...12 x In without connection

Model	
product brand name	SETRON
product designation	Molded-case circuit breaker
product designation / according to UL file	MJAE
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	ETU320
protection function of the overcurrent release	LI
number of poles	3
General technical data	
Tension assignée d'isolement Ui	600 V
power loss [W] / maximum	27.3 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	9.1 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	4 000
electrical endurance (switching cycles) / at 480 V	6 000
electrical endurance (switching cycles) / at 600 V	6 000
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
operational current	
• 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	M
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	85 kA

<ul style="list-style-type: none"> • at 415 V • at 690 V 	55 kA 5 kA
breaking capacity operating short-circuit current (Ics) <ul style="list-style-type: none"> • at 240 V • at 415 V • at 690 V 	85 kA 55 kA 5 kA
short-circuit current making capacity (Icm) <ul style="list-style-type: none"> • at 240 V • at 415 V • at 690 V 	187 kA 121 kA 7.5 kA

Switching capacity according to UL 489

breaking capacity current <ul style="list-style-type: none"> • at 240 V • at 480 V • at 600 V 	100 kA 35 kA 18 kA
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Adjustable parameters

Adjustable response value current / I _g min.	100 A
Adjustable response value current / I _g min.	250 A
Adjustable response value current / I _i min.	375 A
Adjustable response value current / I _i max.	3 000 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
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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 <ul style="list-style-type: none"> • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum 	-25 °C 70 °C -40 °C 80 °C

Certificates

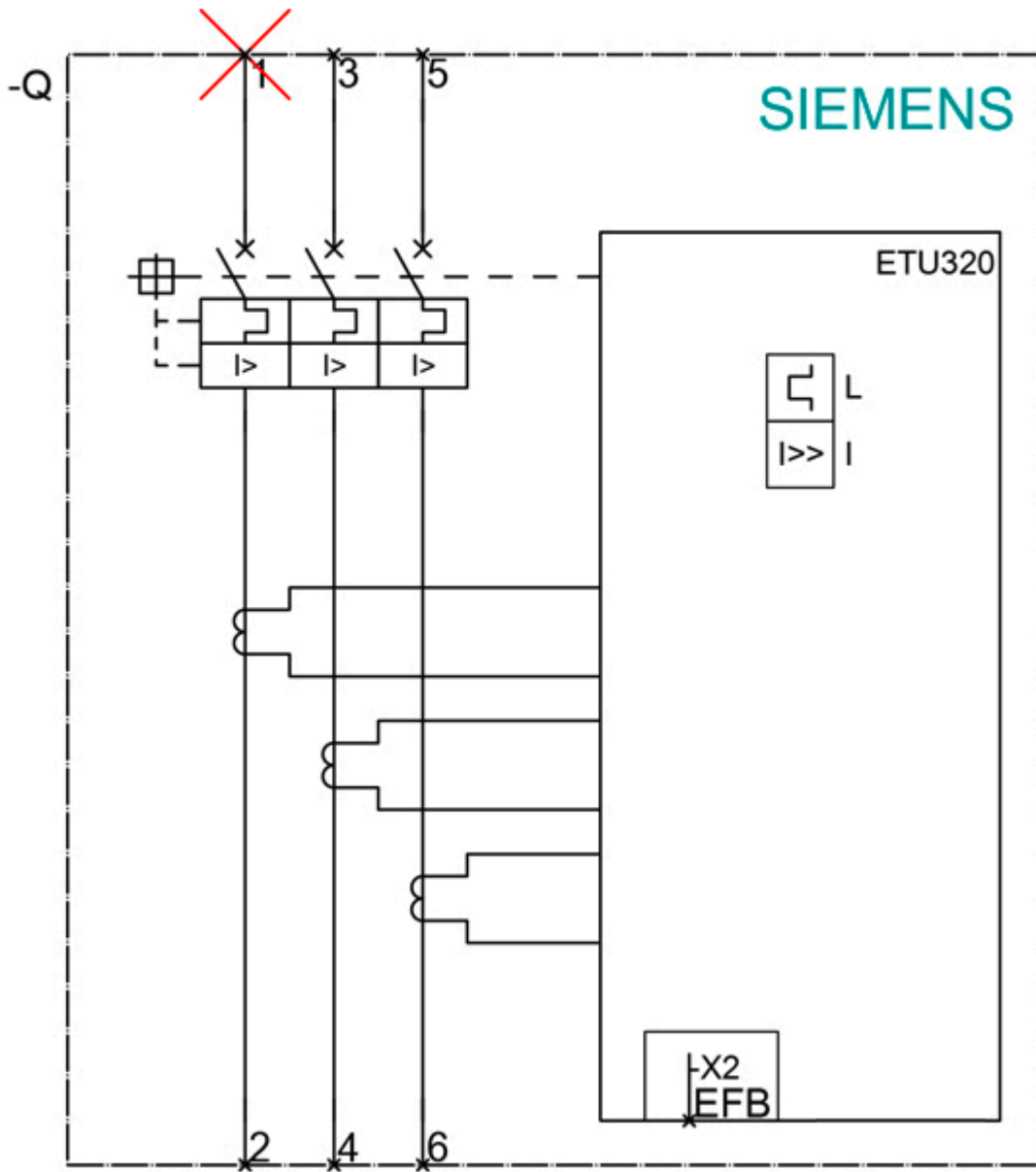
reference code / acc. to IEC 81346-2	Q
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Yes

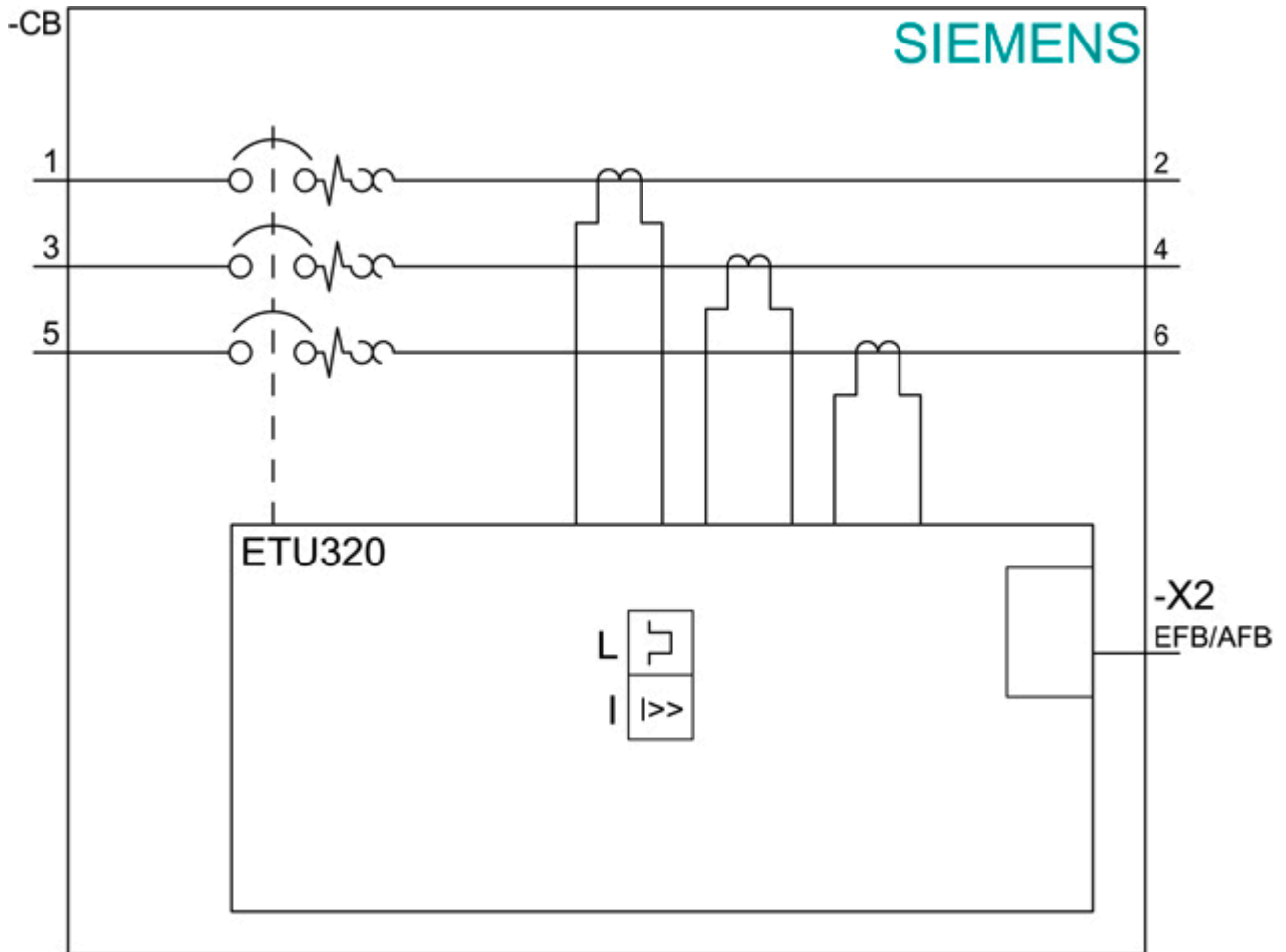
General Product Approval



[Miscellaneous](#)

General Product Approval	EMC	Declaration of Conformity	Shipping Approval	other
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