



circuit breaker 3VA6 UL frame 800 breaking capacity class C 100kA @ 480 V 4-pole, line protection ETU860, LSIG, $I_n=800A$ overload protection $I_r=320A \dots 800A$ short circuit protection $I_{sd}=0,6..10 \times I_n$, $I_i=1,5..10 \times I_n$

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	CMAE
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	ETU860
protection function of the overcurrent release	LSIG
number of poles	4
General technical data	
Tension assignée d'isolement U_i	600 V
power loss [W] / maximum	231 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	77 W
mechanical service life (switching cycles) / typical	10 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	5 800
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	4 000
electrical endurance (switching cycles) / at 480 V	5 800
electrical endurance (switching cycles) / at 600 V	4 000
Neutral conductors / upgradeable/retrofitable	No
ground-fault monitoring version	Summation current formation L + N-conductor
product function	
• communication function	Yes
• other measurement function	Yes
Current	
marking / acc. to UL 489 / 100%-rated breaker	No
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	C
breaking capacity maximum short-circuit current (I_{cu})	
• at 240 V	200 kA
• at 415 V	110 kA
• at 690 V	35 kA
breaking capacity operating short-circuit current (I_{cs})	
• at 240 V	150 kA
• at 415 V	85 kA

• at 690 V	19 kA		
short-circuit current making capacity (Icm)			
• at 240 V	440 kA		
• at 415 V	242 kA		
• at 690 V	74 kA		
Switching capacity according to UL 489			
breaking capacity current			
• at 240 V	200 kA		
• at 480 V	100 kA		
• at 600 V	50 kA		
Adjustable parameters			
Adjustable response value current / Ig min.	0.5 s		
Adjustable response value current / Ii min.	1 200 A		
Adjustable response value current / Ii max.	8 000 A		
Ground fault protection / tripping switchable / I2t=ON/OFF	Yes		
Adjustable response value current / Ig min.	160 A		
Adjustable response value current / Ig max.	800 A		
Adjustable response value current / tg min.	0.05 s		
Adjustable response value current / Ig min.	0.8 s		
Mechanical Design			
height [in]	12.6 in		
Height	328 mm		
width [in]	11 in		
Width	280 mm		
depth [in]	4.7 in		
depth	120 mm		
Connections			
arrangement of electrical connectors / for main current circuit	Front connection		
Auxiliary circuit			
number of CO contacts / for auxiliary contacts	0		
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	Declaration of Conformity	other



[Miscellaneous](#)



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Further information

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

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

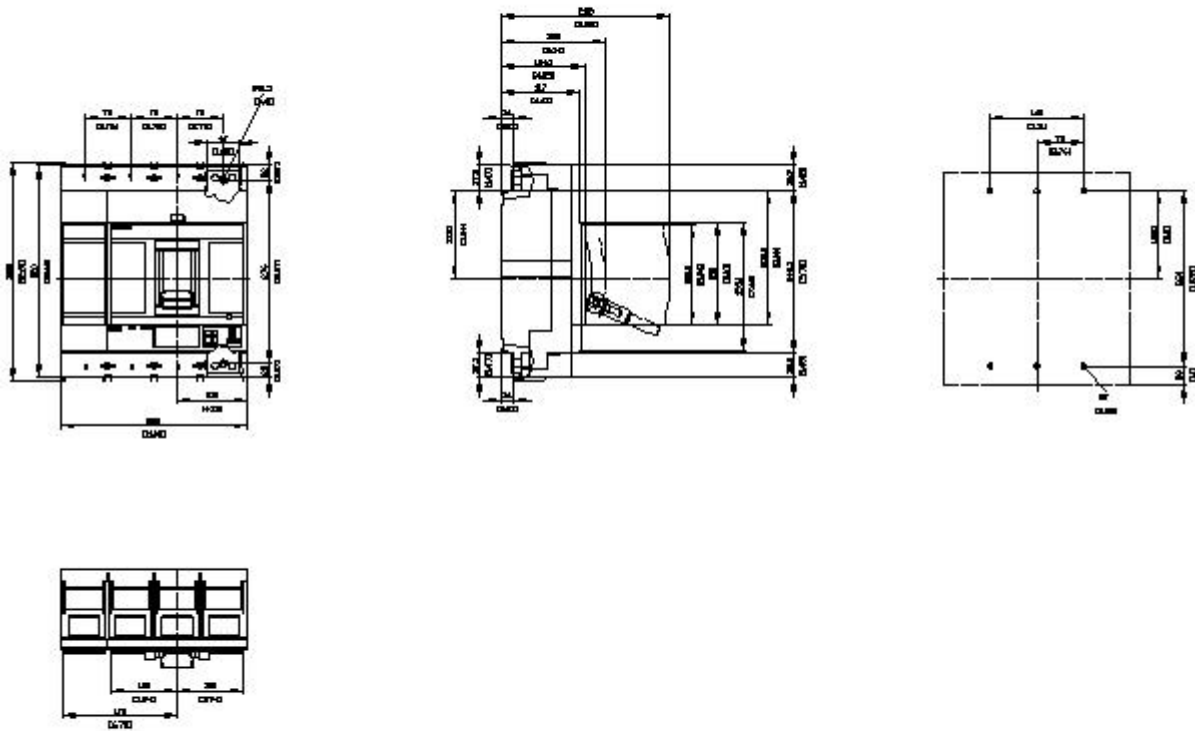
Industry Mall (Online ordering system)

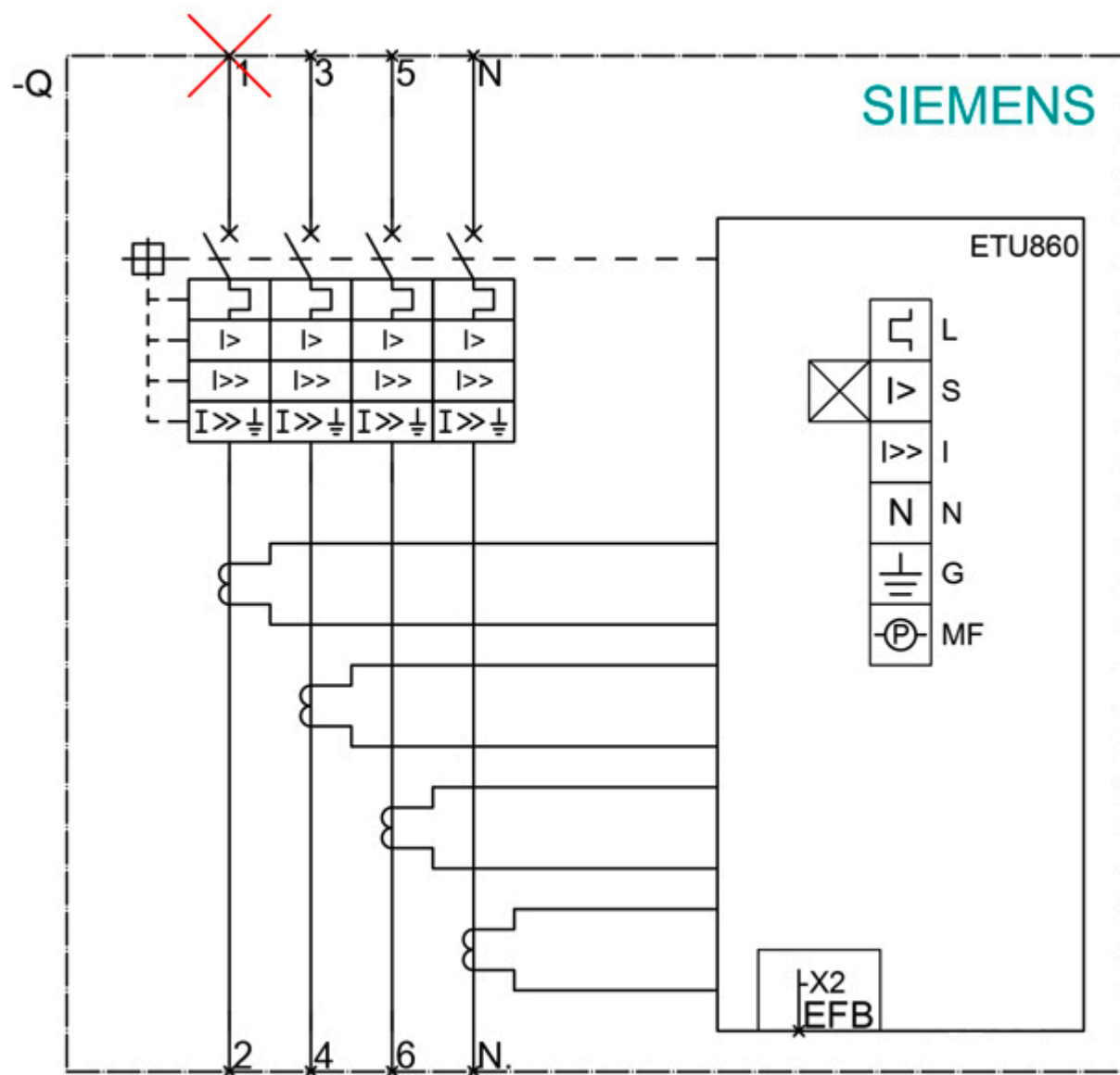
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA6580-7KQ42-0AA0>

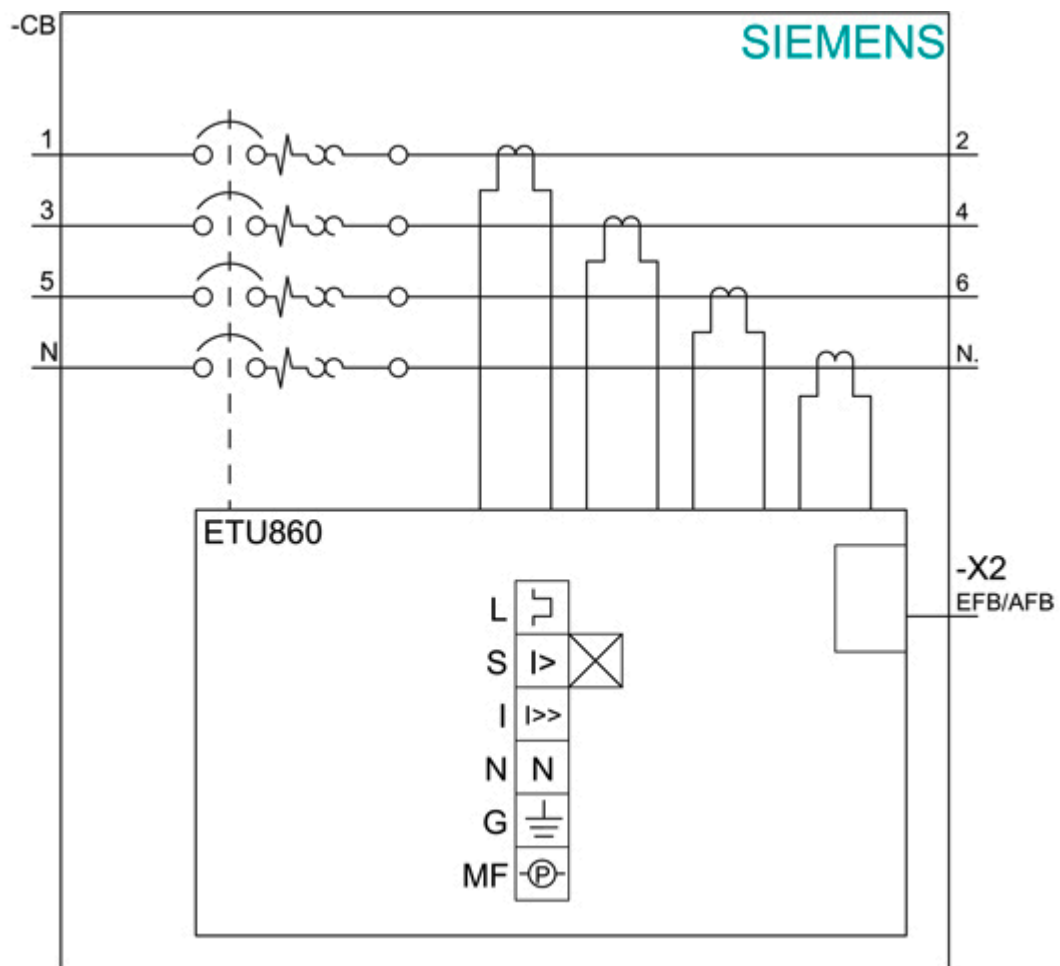
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3VA6580-7KQ42-0AA0>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)







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