

circuit breaker 3VA2 IEC frame 160 breaking capacity class E
Icu=200 kA @ 415 V 3-pole, line protection ETU850, LSI, In=63A
overload protection Ir=25A ... 63A short circuit protection
Isd=0,6...10xIn, li=1,5...12xIn cable connection



Model	
Product brand name	SENTRON
Product designation	Molded case circuit breaker
Product version	Line protection
Design of the overcurrent release	ETU850
Protective function of the overcurrent release	LSI
Number of poles	3
General technical data	
Rated insulation voltage Ui	800 V
Max. rated operational voltage Ue with AC 50/60Hz	690 V
Power loss [W] / maximum	3.1 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	1.03 W
Mechanical service life (switching cycles) / typical	20 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	12 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	8 000
Neutral conductors / upgradeable/retrofitable	Yes

Ground fault monitoring version	Without
Product function	
• communication function	Yes
• other measurement function	Yes

Current	
Max. rated operational current of the frame size	160 A
Rated continuous current I_n	63 A
Operating current	
• at 40 °C	63 A
• at 45 °C	63 A
• at 50 °C	63 A
• at 55 °C	63 A
• at 60 °C	63 A
• at 65 °C	63 A
• at 70 °C	63 A

Switching capacity according to IEC 60947	
Maximum short-circuit current breaking capacity (I_{cu})	
• at 415 V	200 kA
• at 690 V	85 kA
Operational short-circuit current breaking capacity (I_{cs})	
• at 415 V	200 kA
• at 690 V	65 kA
Short-circuit current making capacity (I_{cm})	
• at 415 V	440 kA
• at 690 V	187 kA

Adjustable parameters	
Adjustable response value current / I_r min.	25 A
Adjustable response value current / I_r max.	63 A
Adjustable response value time / t_r min.	0.5
Adjustable response value time / t_r max.	25
Adjustable response value current / I_{sd} min.	37.8 A
Adjustable response value current / I_{sd} max.	630 A
Adjustable response value time / t_{sd} min.	0.05 s
Adjustable response value time / t_{sd} max.	0.5 s
Adjustable response value time / t_{sd} min.	0.05 s
Adjustable response value time / t_{sd} max.	0.5 s
Adjustable response value current / I_i min.	95 A
Adjustable response value current / I_i max.	756 A
Ground fault protection / tripping switchable / $I_2t=ON/OFF$	No

Mechanical Design			
Height [in]	7.1 in		
Height	181 mm		
Width [in]	4.1 in		
Width	105 mm		
Depth [in]	3.4 in		
Depth	86 mm		
Connections			
Arrangement of electrical connectors / for main current circuit	Front terminal		
Type of electrical connection / for main current circuit	double-sided box terminal		
Type of connectable conductor cross-section, round conductor terminal, stranded	1 x (6-120 mm²)		
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 DIN EN 81346-2	Q		
General Product Approval	EMC	Declaration of Conformity	Test Certificates
Miscellaneous			
	EAC	RCM	EG-Konf.
			Miscellaneous Special Test Certificate
Shipping Approval	other		
	CCS / China Classification Society	Manufacturer Declaration	Miscellaneous
LRS			
Further information			

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

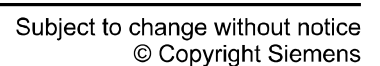
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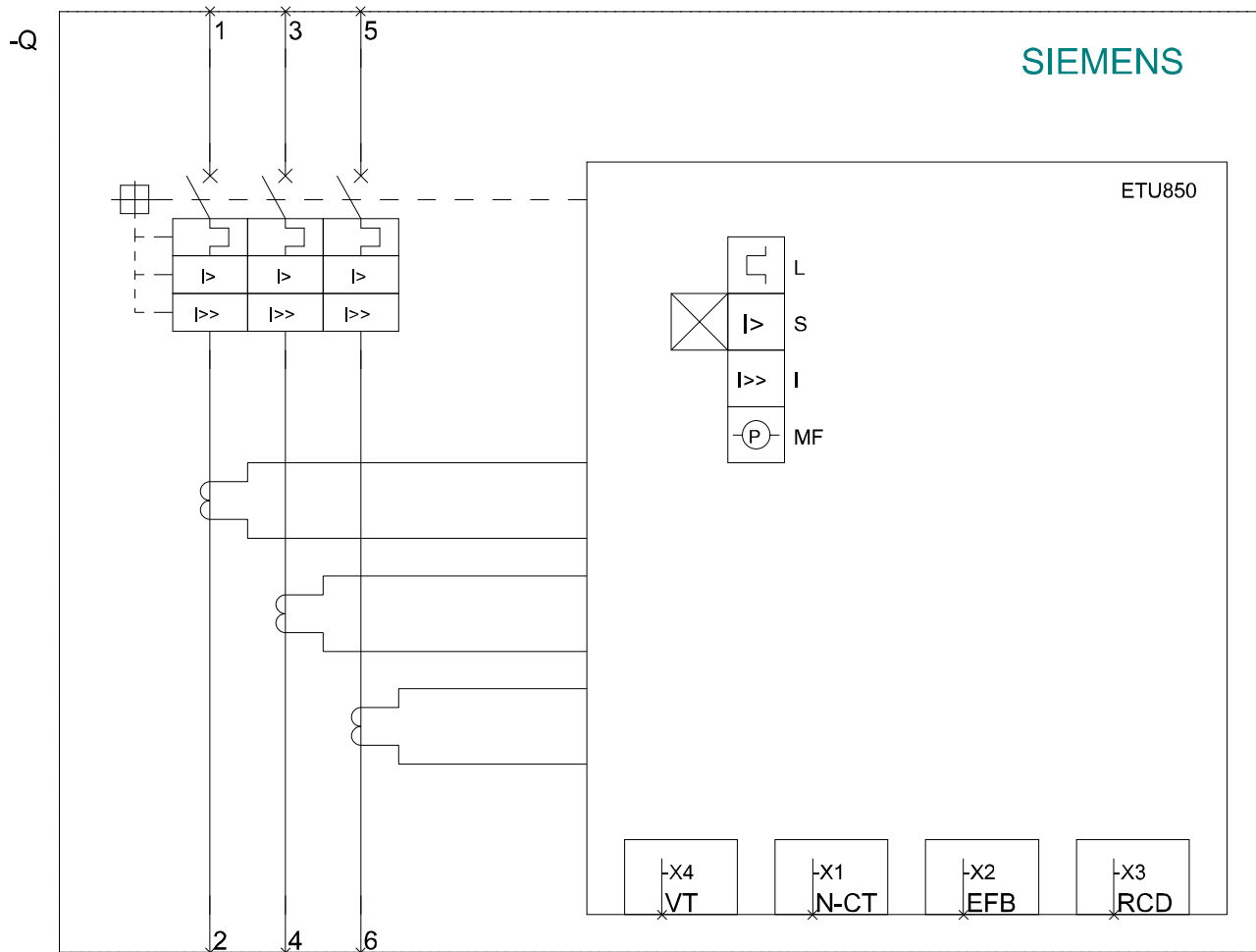
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