

TECHNICAL DATA				E90S	E880	E90S UC		
Standards				EN 60898	EN 60947-2	VDE 0641 Part 2/3		
Tripping Characteristics				B, C, D	3-5In/5-10In/10-20In	B, C		
Nominal current		A		B 6, 63, C/D 0.5-63	80 up to 125	B 6-63, C 0.5-63		
Calibration temperature		*C		30	40	30		
Number of poles (#mod)				1/1+N/2/3/4	1/2/3/4 (1 <sup>1/2</sup> ,3,4 <sup>1/2</sup> ,6)	1/2		
Neutral pole protected				yes	-	-		
Nominal voltage Un	AC	1P	V	230/400	230/400	230/400		
		1P+N	V	230	-	-		
		2P	V	400	400	400		
	DC	3P/3P+N/4P	V	400	-	-		
		1P <sup>(1)</sup>	VDC	48	220	220		
		2P (in series) <sup>(1)</sup>	VDC	110	440	440		
Frequency				Hz	50/60	50/60 and DC		
				Hz	DC: mag. trip +40%	DC: mag. trip +40%	DC: mag. trip +40%	
				Hz	400: mag. trip +50%	400: mag. trip +50%	400: mag. trip +50%	
Maximum service voltage U <sub>max</sub> between two wires				V	250/440;53/120	250/440;53/120		
Minimum service voltage U <sub>min</sub>				V	12; 12	12; 12		
Selectivity class (IEC 60898)					-	3		
Isolator application		IEC 60947-2		yes	-	yes		
Rated insulation voltage		Pollution degree 2		V	500	500		
		Pollution degree 3		V	440	440		
Impulse withstand test voltage				kV	6	6		
Insulation resistance				MOhm	10,000	10,000		
Dielectric rigidity				kV	2,5	2,5		
Vibrations resistance (in x,y,z direction)(IEC 77/16.3)					3g	3g		
electrical at Un, In					10,000	4,000		
				mechanical				20,000
Utilization category (IEC 60947-2)				A	A	A		
Protection degree (outside/inside enclosure with door)				IP20/IP40	IP20/IP40	IP20/IP40		
Self-extinguish degree (according to UL94)				V2	V2	V2		
Tropicalization (according to IEC 60068-2/DIN 40046		*C/RH		+55°C/95%RH	+55°C/95%RH	+55°C/95%RH		
Operating temperature					-25/+55	-25/+55		
*C				-55/+55	-55/+55	-55/+55		
Storage temperature		*C		1/35	70	1/35		
Terminal capacity		Rigid cable min./max (top)		mm <sup>2</sup>	0.75/35	-		
		Flexible cable min.*/max (top)		mm <sup>2</sup>	1/35	70		
		Rigid cable min./max (bottom)		mm <sup>2</sup>	0.75/35	-		
		Flexible cable min.*/max (bottom)		mm <sup>2</sup>				
		(*Flexible cable 0.75/1/1.5 mm2 with cable lug)			4.5	5		
Add on devices (side add on)		Torque		Nm	yes	yes		
		Auxiliary contacts			yes	-		
		Undervoltage			yes	yes		
		Short trip			yes	-		
		Remote drive			yes	-		
Busbar systems		Panel board switch			yes	yes		
		Pin (top/bottom)			yes	-		
		Fork (top/bottom)			yes	-		
Accessories								
Dimensions, weights, packaging					18	27		
				(HxDxW) 86x68xW		mm/mod	125gr	-
				Weight/mod		g	12	8
Package				mod	VDE	VDE <sup>(1)</sup>		
Approvals				yes	yes	yes		
<b>Short-circuit capacity AC (kA)</b>								
I <sub>cn</sub>		1P	230/400V	10	-	6 (220VDC) <sup>(2)</sup>		
		1P+N	230V	10	-	-		
		2P	230/400V	10	-	6 (440VDC) <sup>(3)</sup>		
		3P/3P+N/4P	230/400V	10	-	-		
I <sub>cs (service)</sub>				75% I <sub>cn</sub>	-	100% I <sub>cn</sub>		
I <sub>cu (ultimate)</sub>		1P	127V	30	-	-		
			240V	15	B/C 10; D 7.5	10 <sup>(1)</sup>		
			415V	4	4.5	-		
		1P+N/2P	127V	40	-	-		
			240V	30	B/C 15	-		
			415V	15	B/C 10; D 7.5	10 <sup>(1)</sup>		
		2P	240V	30	B/C 15	-		
			415V	15	B/C 10; D 7.5	-		
3P,4P	240V	30	-	-				
440V	10	-	-					
I <sub>cs (service)</sub>				50% I <sub>cu</sub>	100% I <sub>cu</sub>	-		
NEMA AB1 (120/240V)				30	-	-		
<b>Short circuit capacity DC (kA)</b>								
I <sub>cu (ultimate)</sub>		1P	≤60V	25	10	-		
			≤220V	-	-	-		
		2P	≤125V	30	15	-		
			≤440V	-	-	-		
I <sub>cs (service)</sub>				100% I <sub>cu</sub>	100% I <sub>cu</sub>	-		

<sup>(1)</sup>On request, <sup>(2)</sup>10 (125VDC), <sup>(3)</sup>10 (250VDC)