Selection table

	ANSI CODE	REF601	REJ601	REJ603 1.5	REJ 603 3.0	REM601	REB611 IEC	REF611 IEC	REM611 IEC	REU611 IEC	REF615 IEC	RED615 IEC	REG615 IEC	REM615 IEC	RET615 IEC	REU615 IEC	REV615 IEC	REC615 IEC	RER615 IEC	RED615 ANSI	REF615 ANSI	REF615R ANSI	REG615 ANSI	REM615 ANSI	RET615 ANSI	REF620 IEC	REM620 IEC	RET620 IEC	REF620 ANSI	REM620 ANSI	RET620 ANSI	REF630 IEC	REM630 IEC	RET630 IEC	REG630 IEC	REX640	SSC600	SMU615
Standard																																						
ANSI		X	X			X														X	X	X	X	X	X				X	X	X					X	X	X
IEC		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							X	X	X				X	X	X	X	X	X	X
Application																																						
Feeder application		X	X	X	X			X		X	X	X				X				X	X	X				X			X			X				X	O	
Motor application						X	O		X					X										X			X			X			X			O	O	
Transformer application							O					X			X	X				X					X			X			X			X		O	O	
Line differential												X								X																O		
Busbar application							X				X										X															O	O	
Capacitor bank application																	X																			O		
Generator application													X										X												X	O		
Petersen coil control																																				O		
Arc fault protection application											O		O	O	O	O	O				O	O	O	O	O	O	O	O	O	O	O					O	O	O
Functionality																																						
Autorecloser	79	X						X			X	X						O	X	X		X				X			X			X				X	X	
Circuit breaker (CB) controllability	52	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Condition monitoring	CM	X				X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Current-based protection	50, 67	50	50	50	50	50	X	X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Display with Single Line Diagram (SLD)											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O [1]		
Distance protection	21P, 21N																															X				O	O	
Disturbance recorder	DFR				X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Fault locator	FLOC										O	O						O	O	X		X										X				O	O	
Frequency protection	81									X	O[x]	O*	X	O*		O*		X	X	O[/]			X			X	X	X				X	X	X	X	X	X	
Generator differential protection	87G						X						X										X												X	O		
Generator/non-generator CB synchronizing	25AUTOSYNCG																																			O		
High impedance restricted earth-fault protection	87NHI										X																									X		
Line differential protection (in-zone transf. support)	87L											X								X																O		
Load-shedding	81LSH															X					X	X		X	X				X	X	X	X				X	O	
Motor differential protection	87M						X																				X			X			X		X	O		
On-load tap changer control	90V															X												X						X		O	O	
Power quality	PQ										O	O	O				O	O	O	X	X	X	X			X						X				X	O	
Self-powered protection relay				X	X																																	
Synchro-check	25										X		X			X		O	O	O	X	X	X			X	X	X	X			X		X	X	X	O	
Transformer differential protection	87T						X								X					X					X			X			X			X	X	O	O	
Voltage based protection	27, 59									X	X	X	X	X	X	X	O*	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Withdrawable release mechanism							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							
Hardware																																						
Analog inputs (CTs/VTs) *		4/0	4/0	4/0	4/0	4/0	4/0	4/4	4/0	0/5	4/5	4/5	7/5	4/5	7/5	4/5	7/5	0-6	3	4/5	7/6	4/5	7/5	7/4	7/6	4/5	7/5	8/9	7/8	7/4	10/4	4/5	8/4	8/3	8/4	12/10		4/3
Analog inputs (sensor channels/CTs) *		3/1	3/1			3/1					6/1	6/1		6/1				0-9	0-6	3/1						6/1	3/1									12/4		6/1
Binary inputs/outputs *		4/6	4/6	0/2	1/2	4/6	4/6	10/9	4/6	4/6	18/13	18/13	16/10	16/12	14/12	14/12	14/12	14/9	14/9	16/10	18/13	11/7	16/10	18/13	14/13	32/18	28/18	16/17	32/18	14/13	16/17	50/45	50/45	50/45	50/45	56/42		8/9
RTD/mA inputs *											6/2	2/1	2/1	6/2	6/2	6/2	6/2			2/1			2/1	6/2	2/1	6/2	12/4	8/3		14/5	2/1	8	8	8	8	20/4		
mA outputs *																																4	4	4	4	4		
Objects (controlled/monitored)																																						
Circuit Breaker (CB) *		1/0				1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	2/0	2/0	1/0	2/0	1/1	1/0	1/0	1/0	3/3	3/3	3/3	2/2	1/1	2/2	2/2	2/2	2/2	2/2	3/0		1/1
Diconnector, 3 states (DC)																																				6/6		
Disconnector (DC) *											2/3	2/3	2/3	2/3	2/3	2/3	2/3	8/2	8/2	2/3	2/2		2/2	2/2	2/2	4/4	4/4	4/4				8/8	8/8	8/8	8/8	8/8		2/2
Earthing Switch (ES) *											1/2	1/2	1/2	1/2	1/2	1/2	1/2	0/8	0/8	2/2	1/2		1/2	1/2	1/2	3/3	3/3	3/3								3/3		1/1
Communication protocols																																						
DNP 3.0											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
IEC 60870-5-103		X	X			X					X	X	X	X	X	X	X									X	X	X	X	X	X	X	X	X	X	X		
IEC 60870-5-104																		X	X																	X	X	
IEC 61850 Ed.1							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IEC 61850 Ed.2 (incl. SMV)											X	X	X	X	X	X	X			X		X	X	X	X	X	X	X								X		X
Modbus		X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					X		
Profibus											O	O	O	O	O	O	O				O		O	O	O	O	O	O								O		
Communication media																																						
Ethernet (RJ-45)							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ethernet (LC)							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	O
Ethernet redundant solutions (HSR/PRP)							X	X	X	X	X	X	X	X	X	X	X	O	O	X	X	X	X	X	X	X	X	X	X	X	X					X	X	O
Front port communication					USB		RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45		RJ-45
Serial (RS 232/485, ST conn.)		X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		

1 Color touch screen x Function supported o Function available as option * Dependant on configuration

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