









		AIR CIRCUIT BREAKERS							TRIP FREE SWITCHES		
		 0286 56 + 0288 02			 0286 74 + 0288 02			 0289 51 + 0288 02	 0286 96		
DMX³ according to IEC 60947-2											
Devices		DMX³ 2500			DMX³ 4000			DMX³ 6300	DMX³-I		
		50 kA	65 kA	100 kA	50 kA	65 kA	100 kA	100 kA	2500	4000	6300
	Frames	1	1	2	2	2	2	3	1	2	3
	No. of poles	3P - 4P			3P - 4P			3P - 4P	3P - 4P	3P - 4P	3P - 4P
	Version	Fixed Drawout			Fixed Drawout			Fixed Drawout	Fixed Drawout		
Operating characteristics											
In rated current at 40 °C (A)		630-800-1000-1250-1600-2500			3200-4000			5000-6300	1250-1600-2000-2500	3200-4000	6300
Rated insulation voltage		1000			1000			1000	1000	1000	1000
Rated impulse withstand voltage Uimp (kV)		12			12			12	12	12	12
Rated operational voltage (50/60 Hz) Ue (V)		690			690			690	690	690	690
Neutral protection (% Ir)		OFF-50-100			OFF-50-100			OFF-50-100	-	-	-
Utilization category		B			B			B	-	-	-
Isolation behavior		Yes			Yes			Yes	Yes	Yes	Yes
Ultimate breaking capacity Icu (kA)											
	230 VA	50	65	100	50	65	100	100	-	-	-
	415 VA	50	65	100	50	65	100	100	-	-	-
	500 VA	50	65	100	50	65	100	100	-	-	-
	600 VA	50	60	75	50	65	75	75	-	-	-
	690 VA	50	55	65	50	65	65	65	-	-	-
Service breaking capacity Ics (% Icu)		100			100			100	-	-	-
Short circuit making capacity Icm (kA)											
	230 VA	105	143	220	105	143	220	220	143	220	220
	415 VA	105	143	220	105	143	220	220	143	220	220
	500 VA	105	143	220	105	143	220	220	143	220	220
	600 VA	105	132	165	105	143	165	165	132	165	165
	690 VA	105	121	143	105	143	143	143	121	143	143
Short time withstand current Icw (kA) for t = 1 s											
	230 VA	50	65	85	50	65	85	100	65	85	100
	415 VA	50	65	85	50	65	85	100	65	85	100
	500 VA	50	65	85	50	65	85	100	65	85	100
	600 VA	50	60	75	50	65	75	75	60	75	75
	690 VA	50	55	65	50	65	65	65	55	65	65
Response time											
	Opening time*	15 ms			15 ms			15 ms	-	-	-
	Closing time*	30 ms			30 ms			30 ms	-	-	-
Endurance (cycles)											
	Mechanical	10000			10000			5000	10000	10000	5000
	Electrical	10000			10000			2500	5000	5000	2500
Temperature											
	Operating	-5 °C to + 70 °C			-5 °C to + 70 °C			-5 °C to + 70 °C	-5 °C to + 70 °C	-5 °C to + 70 °C	-5 °C to + 70 °C
	Storage	-25 °C to +85 °C			-25 °C to + 85 °C			-25 °C to + 85 °C	-25 °C to +85 °C	-25 °C to +85 °C	-25 °C to + 85 °C
*Sensing time shall be additional.											

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	PROTECTION UNITS			
				
	0288 03	0288 04	0288 01	0288 02
Microprocessor based protection unit	Touch screen LCD		Monochrome LCD	
	LSI	LSIg	LSI	LSIg
Long time delayed overload protection				
$I_r$ adjustable from 0.4 to 1.0 x $I_n$ in steps of 0.02 <sup>(3)</sup>	•	•	•	•
$t_r$ adjustable 5-10-20-30 s	•	•	•	•
Short time delayed short circuit protection				
$I_m$ adjustable from 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 x $I_r$	•	•	•	•
$t_m$ adjustable : 0-0,1-0,2-0,3-1 <sup>(1)</sup> s	•	•	•	•
Instantaneous protection				
$I_i$ adjustable : OFF- 2, 3, 4, 6, 8, 10, 12, 15 x $I_n$	•	•	•	•
Earthfault protection				
$I_g$ adjustable : OFF- 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 1 x $I_n$		•		•
$t_g$ adjustable : 0.1, 0.2, 0.5, 1 s		•		•
Display				
Touchscreen LCD	•	•		
monochrome LCD			•	•
Measures and displays (Instantaneous, maximum and average, adjustable delay)				
Current	•	•	•	•
Voltage Ph/N and Ph/Ph	•	•		
Power (P, Q, A) total and per phase	•	•		
Frequency	•	•		
Total power factor and per phase	•	•		
Energy (active and reactive)	•	•		
Total harmonic distortion	•	•		
Position ON/OFF/Default	•	•	•	•
Date, time and cause of last trip	•	•	•	•
Protection required	•	•	•	•
Memory				
Trip counter	•	•	•	•
Last trip	•	•	•	•
Date, time and cause of last trip	•	•	•	•
Date of last 20 alarms	•	•		
External link				
USB port for diagnostic software	•	•	•	•
Terminal block for auxilliary	•	•	•	•
Supervision (port RS 485 / Modbus) <sup>(3)</sup>	option	option	option	option
Signalling and Alarms				
Overheating > 75 °C	•	•	•	•
Logical Selectivity	•	•	•	•
Non priority load management <sup>(3)</sup>	•	•		
Reverse power 0.1 to 20s - 5 to 100 % $I_r$ <sup>(3)</sup>	•	•		
Unbalance current 1 to 3600s - 100 to 600 V <sup>(3)</sup>	•	•		
Voltage Ph/N max : 0.1 to 20s - 60 to 400 V <sup>(3)</sup>	•	•		
Voltage Ph/N min : 0.1 to 20s - 10 to 400 V <sup>(3)</sup>	•	•		
Unbalance voltage Ph/N : 0.1 to 20s - Instant <sup>(3)</sup>	•	•		
Reversing phase rotations	•	•		
Max & Min frequency: 45 to 500 Hz - 0.1s to 20s <sup>(3)</sup>	•	•		

(1) Only for touchscreen protection unit

(2) For DMX<sup>3</sup> 3P 4 wire system add Cat.No 0288 11(3) For touchscreens :  $I_r$  adjustable from 0.1 to 10 x  $I_n$  in steps of 0.01