

Technical data of RCD's

People protection

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Series		BP/BD	DM60	DM100	DMCE/DICE
Standards		EN/IEC 61008-1	EN/IEC 61009-1	EN/IEC 61009-1	EN/IEC 61009-1
Magnetic tripping characteristics		-	B-C	B-C	B-C
Residual tripping characteristic		AC, A, S	AC	AC	AC, A
Tripping time at I Δn	Instantaneous	ms	<40	<40	<40
	Selective	ms	>150	-	-
Rated current	A	16,25,40,63, 80, 100	4,6,10,13,16,20,25,32,40	4,6,10,13,16,20,25,32,40	6 ...40
Rated residual current I Δn	mA	10,30,100,300,500,1000	10,30,300	10,30,300	30
Calibration temperature	°C	30	30	30	30
Number of poles versus modules		1	1	1	1
Rated voltage Un	2P AC	V	240	230 (1P+N)	240 (1P+N)
	3P AC	V	-	-	-
	4P AC	V	415	-	-
Frequency	Hz	50/60	50/60	50/60	50
Maximum service voltage U _{max}	V	2P=265 / 4P=455	255	255	265
Minimum service voltage U _{min}	V	2P=117 / 4P=205	117	117	195
Minimum voltage for leakage protection	V	Voltage independent	Voltage independent	Voltage independent	85
Power supply		Top/Bottom	Top/Bottom	Top/Bottom	Bottom
Selectivity class		-	3	3	3
Rated making and breaking capacity (I _m)	A	500 (or 10xI _n)	-	-	10xI _n
Residual making and breaking capacity (IΔ m)	A	500 (or 10xI _n)	6000	6000	6000
Conditional short-circuit capacity (I _{nc})	A	10000 fuse 100A gLgG	-	-	-
Conditional residual short-circuit capacity (IΔ c)	A	10000 fuse 100A gLgG	-	-	-
Rated Short-circuit capacity (I _{cn})	A	-	6000	10000	6000
Grid distance (safety distance between two devices)	mm	35	35	35	-
Isolator application		yes	yes	yes	yes
Insulation degree	Insulation voltage	V (DC)	440	440	440
	Shock voltage (1.2/50μs)	kV	6	6	6 ⁽¹⁾
	Insulation resistance	MΩ	1000	1000	1000 ⁽¹⁾
	Dielectric strength	V	2500	2500	2500 ⁽¹⁾
Shock resistance (in x, y, z direction) (EN/IEC 60077/16.3)		40g, 18 shocks 5 ms	40g, 18 shocks 5 ms	40g, 18 shocks 5 ms	40g, 18 shocks 5 ms
Vibration resistance (in x, y, z direction) (EN/IEC 60068-2-6)		1.5g, 30 min, 0...80Hz	1.5g, 30 min, 0...80Hz	1.5g, 30 min, 0...80Hz	2g, 30 min, 0...80Hz
Endurance	electrical at U _n , I _n	10000	10000	10000	10000
	mechanical at U _n , I _n	20000	20000	20000	20000
Protection degree (outside/inside electrical enclosure with door)		IP20 / IP40	IP20 / IP40	IP20 / IP40	IP20 / IP40
Self extinguish degree (according to UL94)		V2	V2	V2	V2
Tropicalisation (according to EN/IEC 60068-2, DIN 40046)	°C/RH	+55/95%	+55/95%	+55/95%	+55/95%
Pollution degree (acc. EN/IEC 60947-1)		3	3	3	3
Operating temperature		AC (-5...+60); A (-25...+60)	-5...+60	-25...+60	-5...+60
Storage temperature	°C	-25...+70	-25...+70	-5...+70	-25...+70
Terminals capacity	Rigid cable min/max (top)	mm ²	1.5/50 [1.5/35]	1/25	1/25
	Flexible cable min*/max (top)	mm ²	1.5/35 [1.5/25]	1/16	1.5/16
	Rigid cable min/max (bottom)	mm ²	1.5/50 [1.5/35]	1/35	1/35
	Flexible cable min*/max (bottom)	mm ²	1.5/35 [1.5/25]	1/25	1.5/25
Torque	Top/Bottom	Nm	5/5	3/4	3/4
Add-on devices (side add-on) Auxiliary contacts		yes	yes	yes	yes (coupled to CAUN)
	Tele U	yes	yes	yes	yes
	Tele L	yes	yes	yes	yes
	Tele M	yes	yes	yes	yes
	PBS	no	yes	yes	yes
Busbars systems	Pin	yes	Bottom	Bottom	yes
	Fork	yes	Bottom	Bottom	-
	# Poles		2-4	1+N	1+N
Dimensions	(HxDxW) 86x68xW		36/72	36	18
	Weight	mm	2P=250 / 4P=368	250	250
	Package	g	2P=1/6 / 4P=1/3	1/6	1/12
Approvals			KEMA	KEMA	RCM
CE-marking			yes	yes	yes
Page			B.6	B.10	B.12

*Flexible cable 0.75/1/1.5 mm² with cable lug



DME60	DME100	Diff-o-Click	FPAUL	DPA100	FPP 
EN/IEC 61009-1	EN/IEC 61009-1	EN/IEC 61009-1	UL1053 & EN/IEC 61008-1	UL1053 & EN/IEC 61009-1	EN 61008-1
C	C	B-C-D	-	B-C	-
AC	AC	AC-A-S	A	A	A, S
<40	<40	<40	< 40	< 40	<40
-	-	>150	-	-	>150
6...40	6,10,16,20,25,32,40	0.5,1,2,4,6,10,16,20,25,32,40,50,63	16,25,40,63	10,13,16,32,40	25, 40, 63 ⁽³⁾
30, 100	10, 30, 300	30,100,300,500,1000	10, 30, 100, 300, 500	10, 30	30, 100, 300
30	30	30	30	30	30
1	1	1	1	1	1
240 (1P+N)	240 (1P+N)	240/415	240	277 & 240 (1P+N)	240
-	-	400	-	-	-
-	-	400	UL: 240; EN/IEC: 415	-	415
50/60	50/60	50/60	50/60	50/60	50/60
265	265	2P=265 / 4P=455	2P=265 / 4P=455	255	2P=265 / 4P=455
195	195	2P=205 / 4P=205	2P=117 / 4P=205	195	2P=110 / 4P=190
100	100	Voltage independent	Voltage independent	Voltage independent	Voltage independent
Bottom	Bottom	Top	Top/Bottom	Top/Bottom	Top/Bottom
3	3	3	-	3	-
10xIn	10xIn	-	500 (or 10xIn)	-	500 (or 10xIn)
6000	10000	see MCB	500 (or 10xIn)	6000	500 (or 10xIn)
-	-	-	10000 fuse 100A glgG	-	10000 fuse 100A
-	-	-	10000	-	10000
6000	10000	see MCB	-	5000/10000	-
-	-	35	35	35	-
yes	yes	no	yes	yes	yes
440	440	440	500	500	500
6 ⁽¹⁾	6 ⁽¹⁾	6	8	6	8
1000 ⁽¹⁾	1000 ⁽¹⁾	1000	1000	1000	1000
2500 ⁽¹⁾	2500 ⁽¹⁾	2500	2500	2500	2500
40g, 18 shocks 5 ms 2g, 30 min, 0...80Hz	40g, 18 shocks 5 ms 2g, 30 min, 0...80Hz	40g, 18 shocks 5 ms 5g, 30 min, 0...80Hz	40g, 18 shocks 5 ms 1.5g, 30 min, 0...80Hz	40g, 18 shocks 5 ms 1.5g, 30 min, 0...80Hz	40g, 18 shocks 5 ms 1.5g, 30 min, 0...80Hz
10000	10000	10000	10000	10000	10000
20000	20000	20000	20000	20000	20000
IP20 / IP40	IP20 / IP40	IP20 / IP40	IP20 / IP40	IP20 / IP40	IP20 / IP40
V2	V2	V2	V2	V2	V2
+55/95%	+55/95%	+55/95%	+55/95%	+55/95%	+55/95%
3	3	3	3	3	3
-5...+60	-5...+60	AC (-5...+60); A(-25...+60)	AC (-5...+60); A (-25...+60)	-5...+60	-25...+60 ⁽⁴⁾
-25...+70	-25...+70	-25...+70	-25...+70	-25...+70	-25...+70
1/25	1/25	1/25	1.5/50 [1.5/35]	1/25	see page B.20
1/16	1/16	1/16	1.5/35 [1.5/25]	1/16	-
1/35	1/35	1/35	1.5/50 [1.5/35]	1/35	-
1/25	1/25	1/25	1.5/35 [1.5/25]	1/25	-
3/4.5	3/4.5	-/4.5	5/5	3/4	-
-	-	yes (coupled to MCB)	yes	yes	yes
-	-	yes (coupled to MCB)	yes ⁽²⁾	yes ⁽²⁾	yes ⁽⁵⁾
-	-	yes (coupled to MCB)	yes	yes	yes ⁽⁵⁾
-	-	yes (coupled to MCB)	yes ⁽²⁾	yes ⁽²⁾	yes ⁽⁵⁾
-	-	yes (coupled to MCB)	yes ⁽²⁾	yes ⁽²⁾	yes ⁽⁵⁾
Bottom	Bottom	-	yes ⁽²⁾	yes ⁽²⁾	yes
Bottom	Bottom	-	yes ⁽²⁾	yes ⁽²⁾	yes
1+N	1+N	2-3-4	2-4	1+N	2/4
18	18	72/90/108/125/144	36/72	36	88x68x36/73.2
235	235	2P=250 / 3P=320 / 4P=340	2P=250 / 4P=368	250	2P=248 / 4P=364
1	1	1	2P=1/6 / 4P=1/3	1/6	2P=1/6 / 4P=1/3
KEMA	KEMA	KEMA	UL	UL & CEBC	VDE-KEMA-CEBEC-IMO
yes	yes	yes	yes	yes	yes
B.15	B.15	B.16	B.18	B.19	B.20

(1) Making sure that N-L and both flying leads are disconnected.

(2) Not UL registered

(3) Rating current derating as usual in function of installation conditions.

(4) With plug-in busbar: -25/+50°C

(5) With plug-in busbar only at right extreme side of each row. No pin busbars let through allowed

RCD's

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