

CONTACTUM

IP66 Metal Enclosed Switches



IP66 Steel Enclosures



Specification:

Galvanised steel

Powder coated – RAL 7032

Injected polyurethane gasket

Bottom gland plate

IP66, highest ingress protection & Tested as per IEC 60529

IK10, highest mechanical impact protection & Tested as per IEC 62262

C/W mounting plate – galvanised steel

Fitted earth strip

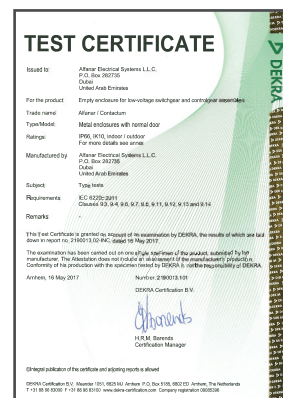
Material thickness 1.2mm - 1.5mm

Tested to IEC 62208

Corrosion Resistance = 1000 Hours salt spray test ASTM B117

IP66 Steel Enclosures

- Tested to **IEC 62208**
- Earthing studs are provided on both the enclosure and the door
- CNC machine formed polyurethane gasket for reliable sealing
- Corner formed door ensures better weatherproofing
- Easily removable hinges, ideal for changing the door opening direction (for certain sizes)
- Special profiled lip for better waterproofing
- Lock features:
 - Quarter turn cylindrical lock
 - Durable metal lock and keys
 - Key engaged when the lock is open



Switches

KU Load Break Switches 16-80A

- Tested according to **IEC 60947-3**
- Compact size
- DIN-rail mounting
- 3 pole and 4 pole KU-switches as standard
- KU-switches connected by a parallel kit
- Switch technology by means of silver contacts ensures safe and durable operation



VKA Load Break Switches 100-160A

- Tested according to **IEC 60947-3**
- Compact size
- 3 pole and 4 pole VKA-switches as standard
- Switch technology by means of silver contacts ensures safe and durable operation



VKE Load Break Switches 200-630A

- Tested according to **IEC 60947-3**
- Available as 3 pole and 4 pole
- Front operated
- Available with terminal covers (LS)
- Easy to install auxiliary contacts



KKV Switch Fuses 16-32A

- Tested according to **IEC 60947-3** / IEC 60269 -1
- Available as 3 pole and 4 pole
- Consists of KU switch and KV 10 x 38 fuse holder
- Compatible with handles LK10 and LK11



KVKE Switch Fuses 63-630A

- Tested according to **IEC 60947-3** / IEC 60269 -1
- DIN & BS fuse versions
- Four breaking points per phase
- Connecting silver rivets have a silver alloy 350 um thick, thus ensuring a long life expectancy and safe use in demanding conditions



Enclosed Disconnect

Enclosed Disconnect



3 Pole	4 Pole	Rating	Size H x W x D (mm)
DS016K	DS0164K	16A	200x200x150
DS020K	DS0204K	20A	200x200x150
DS025K	DS0254K	25A	200x200x150
DS032K	DS0324K	32A	200x200x150
DS040K	DS0404K	40A	200x200x150
DS063K	DS0634K	63A	200x200x150
DS080K	DS0804K	80A	200x200x150
DS100K	DS1004K	100A	400x300x150
DS125K	DS1254K	125A	400x300x150
DS160K	DS1604K	160A	400x300x150
DS200K	DS2004K	200A	600x600x200
DS250K	DS2504K	250A	600x600x200
DS315K	DS3154K	315A	800x800x200
DS400K	DS4004K	400A	800x800x200
DS630K	DS6304K	630A	800x800x200

Code

Insulated IP65 Rotary TP & N Switches

DX020AC	AC23 (415V) Rating (A) 20
DX025AC	AC23 (415V) Rating (A) 25
DX032AC	AC23 (415V) Rating (A) 32
DX063AC	AC23 (415V) Rating (A) 63
DX100AC	AC23 (415V) Rating (A) 100



Enclosed Fuse Switches

Enclosed Fuse Switches



3 Pole	4 Pole	Rating	Size H x W x D (mm)
DFS016K	DFS0164K	16A	300x200x150
DFS020K	DFS0204K	20A	300x200x150
DFS025K	DFS0254K	25A	300x200x150
DFS032K	DFS0324K	32A	300x200x150
DFS063K	DFS0634K	63A	300x300x150
DFS080K	DFS0804K	80A	600x400x200
DFS100K	DFS1004K	100A	600x400x200
DFS125K	DFS1254K	125A	600x400x200
DFS160K	DFS1604K	160A	600x400x200
DFS200K	DFS2004K	200A	600x600x200
DFS250K	DFS2504K	250A	600x600x200
DFS315K	DFS3154K	315A	800x800x200
DFS400K	DFS4004K	400A	800x800x200

Features Enclosed Disconnect

- BS EN 60947-3
- Terminal shrouds to IP20 line side
- Fully rated AC22 for distribution loads
- Disconnectable solid neutral link
- Hinged door
- Red/Yellow handles available on request
- Auxiliary contacts available
- Padlockable using up to 3 padlocks
- Door interlocked padlockable handle as standard
- IP66 rated metal enclosures
- Paint finish RAL 7032
- Bottom mounted gland plate

Features Fuse Switches

- BS EN 60269/BS 88
- From 80A - 400A the operating current not to exceed 80% of the unit
- Terminal shrouds to IP20 line side
- Switches supplied with nominal rated fuses
- AC22 & AC23 for distribution & motor loads
- Disconnectable solid neutral link
- Hinged door
- Red/Yellow handles available on request
- Auxiliary contacts available
- Padlockable using up to 3 padlocks
- Door interlocked padlockable handle as standard
- IP66 rated metal enclosures
- Paint finish RAL 7032
- Bottom mounted gland plate

Enclosed Disconnect

Load Break Switches		Type	DS016K	DS020K	DS025K	DS032K	DS040K	DS063K	DS080K	DS100K	DS125K	DS160K	DS200K	DS250K	DS315K	DS400K	DS630K
Nominal Current Rating [A]			16A	20A	25A	32A	40A	63A	80A	100A	125A	160A	200A	250A	315A	400A	630A
Rated Insulation Voltage U_i [V]			800	800	800	800	800	800	800	690	690	690	1000	1000	1000	1000	1000
Rated Thermal Current I_{th} [A]			25	36	40	50	63	80	100	125	160	200	200	250	315	400	630
Nominal Values with Cable Size [mm ²]			4	10	10	16	16	25	35	70	70	95	95	120	185	240	2X185
Rated Operational Current I_e [A]																	
AC21	400/415 V	25	36	40	50	63	80	100	125	160	200	200	250	315	400	630	
	500 V	25	36	40	50	63	80	100	125	160	200	200	250	315	400	630	
	690 V	25	36	40	50	63	80	100	125	160	200	200	250	315	400	630	
AC22	400/415 V	16	20	25	32	40	63	80	100	125	160	200	250	315	400	630	
	500 V	16	20	25	32	40	63	80	100	125	160	-	-	315	400	630	
	690 V	16	20	25	32	40	63	80	100	125	160	-	-	315	400	630	
AC23	400/415 V	16	20	25	32	40/25	40	63	100	100	135	200	250	315	400	630	
	500 V	16	20	25/20	32	32/20	40/32	40/32	63	80	125	-	-	315	400	500	
	690 V	16	20	25/20	32	32/20	40/32	40/32	63	80	125	-	-	315	400	500	
Rated operational power for 3 phase [1500 r.p.m.] squirrel cage induction motors [kW]																	
AC23	400/415 V	7.5	9.5	11	15	15/11	22	30	45	55	75	110	132	160	200	355	
	500 V	7.5	11	15/11	18	22/11	30/22	30/22	45	55	75	-	-	200	250	355	
	690 V	11	15	22/15	25	30/15	37/30	37/30	50	55	90	-	-	315	355	500	
Rated Fused Short Circuit Current																	
Back-up Fuse [A]			63	63	63	63	63	80	80	125	160	160	250	250	400	400	630
R.M.S Value I_k [kA]			50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Peak Value [kA]			7.2	7.2	7.2	7.2	7.2	8.7	8.7	15	15	15	22	22	26	26	32
Impulse Withstand Voltage, U_{imp} [kV]			8	8	8	8	8	8	8	8	8	8	8	8	12	12	12
Rated Short Circuit Making Capacity, I_{cm} [kA]																	
	690 V	2.5	2.5	2.5	2.5	2.5	3.1	3.1	5.1	5.1	5.1	11.4*	11.4*	12	12	17	
Rated Short Time Withstand Current [1 s], I_{cow} [kA]																	
	690 V	1.7	1.7	1.7	1.7	1.7	2	2	3.5	3.5	3.5	6.5*	6.5*	7	7	10	
Rated Breaking Capacity I_{cn} [A]																	
AC23	400/415 V	128	160	200	256	256/200	320	504	720	800	1080	1600	2000	2520	3200	5040	
	500 V	128	160	200/160	256	256/160	320/256	320/256	600	640	1000	-	-	2520	3200	4000	
	690 V	128	160	200/160	256	256/160	320/256	320/256	600	640	1000	-	-	2520	3200	4000	
Electrical Endurance [Operations]			3000	3000	3000	3000	3000	3000	3000	2000	2000	2000	2000	2000	2000	2000	2000
Mechanical Endurance [No. of Operations]			50000	50000	50000	50000	50000	50000	50000	16000	16000	16000	16000	16000	10000	10000	10000
Terminals / Bolt Size Cu [mm ²]			1.5-16	1.5-16	1.5-16	1.5-16	1.5-16	2.5-35	2.5-35	6-70	6-70	6-70	M8	M8	M10	M10	M12
Max Terminal Torque [Nm]			1.8	1.8	1.8	1.8	1.8	2.5	2.5	6	6	6	15-22	15-22	30-44	30-44	50-75



Fuse Switch

Switch Fuse	Type	DFS016K	DFS020K	DFS025K	DFS032K	DFS063K	DFS080K	DFS100K	DFS125K	DFS160K	DFS200K	DFS250K	DFS315K	DFS400K
Nominal Current Rating [A]		16A	20A	25A	32A	63	80	100	125	160	200	250	315	400
Rated Insulation Voltage U_n [V]		690	690	690	690	690	690	690	690	690	1000	1000	1000	1000
Rated Thermal Current I_{th} [A]		16	20	25	32	63	80	100	125	160	200	250	315	400
Nominal Values with Cable Size [mm ²]		4	10	10	16	16	25	35	50	70	95	120	185	240
Rated Operational Current I_e [A]														
AC21	400/415 V	16	20	25	32	63	80	100	125	160	200	250	315	400
	500 V	16	20	25	32	63	80	100	125	160	200	250	315	400
	690 V	16	20	25	32	63	80	100	125	160	200	250	315	400
AC22	400/415 V	16	20	25	32	63	80	100	125	160	200	250	315	400
	500 V	16	20	25	32	63	80	100	125	160	200	250	315	400
	690 V	16	20	25	32	63	80	100	125	160	200	250	315	400
AC23	400/415 V	16	20	25	32	63	80	100	125	125	200	250	315	400
	500 V	16	20	25	32	63	80	100	125	125	200	250	315	400
	690 V	16	20	25	32	63	80	100	125	125	200	250	315	400
Rated operational power for 3 phase [1500 r.p.m.] squirrel cage induction motors [kW]														
AC23	400/415 V	7.5	9.5	11	15	30	45	55	55	55	110	132	160	200
	500 V	7.5	11	15	18	37	55	55	75	75	132	160	200	250
	690 V	11	15	22	30	55	75	90	110	110	160	250	315	355
Rated Fused Short Circuit Current														
Back-up Fuse [A]		16 (63)	20	25	32	63	80	100	125	160	200	250	315	400
R.M.S Value I_k [kA]		50	50	50	50	80	80	80	80	80	80	80	80	80
Peak Value [kA]		7.2	7.2	7.2	7.2	12	12	12	12	12	18	18	26	26
Impulse Withstand Voltage, U_{imp} [kV]		8	8	8	8	8	8	8	8	8	12	12	12	12
Rated Short Circuit Making Capacity, I_{cm} [kA]														
	690 V	2.5	2.5	2.5	2.5	6	6	6	6	6	7	7	12	12
Rated Short Time Withstand Current [1 s], I_{cw} [kA]														
	690 V	1.7	1.7	1.7	1.7	4	4	4	4	4	5	5	7	7
Rated Breaking Capacity I_{cn} [A]														
AC23	400/415 V	128	160	200	256	504	640	800	1000	1000	1600	2000	2520	3200
	500 V	128	160	200	256	504	640	800	1000	1000	1600	2000	2520	3200
	690 V	128	160	200	256	504	640	800	1000	1000	1600	2000	2520	3200
Electrical Endurance [Operations]		3000	3000	3000	3000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Mechanical Endurance [Operations]		50000	50000	50000	50000	20000	20000	20000	20000	20000	16000	16000	10000	10000
Terminals / Bolt Size Cu [mm ²]		1.5-16	1.5-16	1.5-16	1.5-16	6-70	6-70	6-70	6-70	6-70	M10	M10	M10	M10
Max Terminal Torque [Nm]		1.8	1.8	1.8	1.8	6	6	6	6	6	30-44	30-44	30-44	30-44
Fuse Type	IEC 60269 / BS88	10x38	10x38	10x38	10x38	A2-A3	A2-A3	A2-A3	A2-A3	A2-A3	B1-B2	B1-B3	B1-B4	B1-B4
	- Size of Screws	N/A	N/A	N/A	N/A	M5	M5	M5	M5	M5	M10	M10	M10	M10
	- Fixing Centres [mm]	N/A	N/A	N/A	N/A	73	73	73	73	73	111	111	111	111
	- Torque [nNm]	N/A	N/A	N/A	N/A	3	3	3	3	3	15	15	15	15



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